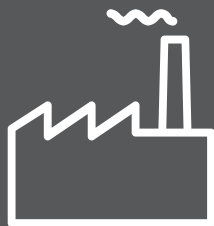


GENERAL CATALOGUE

2022-2023



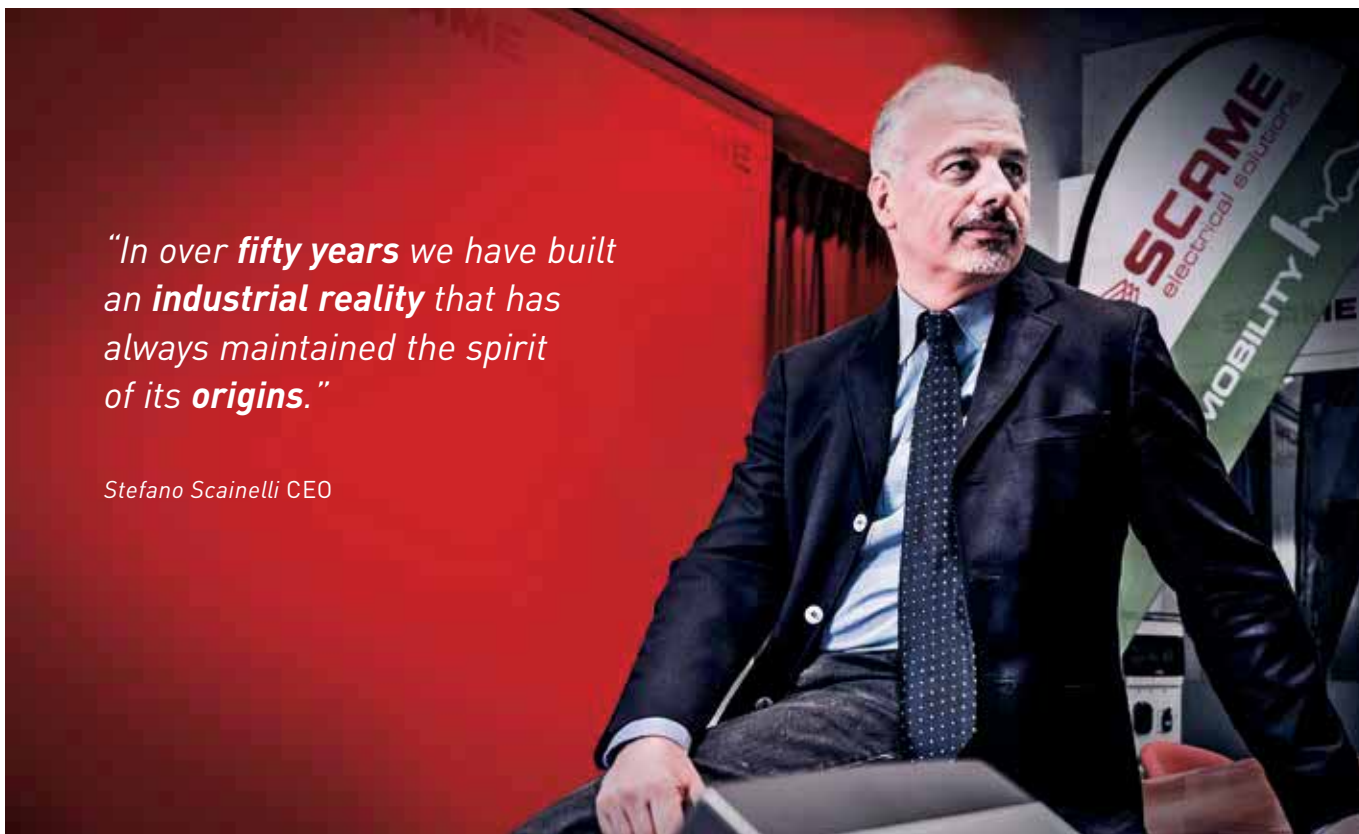
INDUSTRY
INSTALLATION
DOMESTIC



GENERAL CATALOGUE 2022-2023



www.scame.com



*"In over **fifty years** we have built an **industrial reality** that has always maintained the spirit of its **origins**."*

Stefano Scainelli CEO

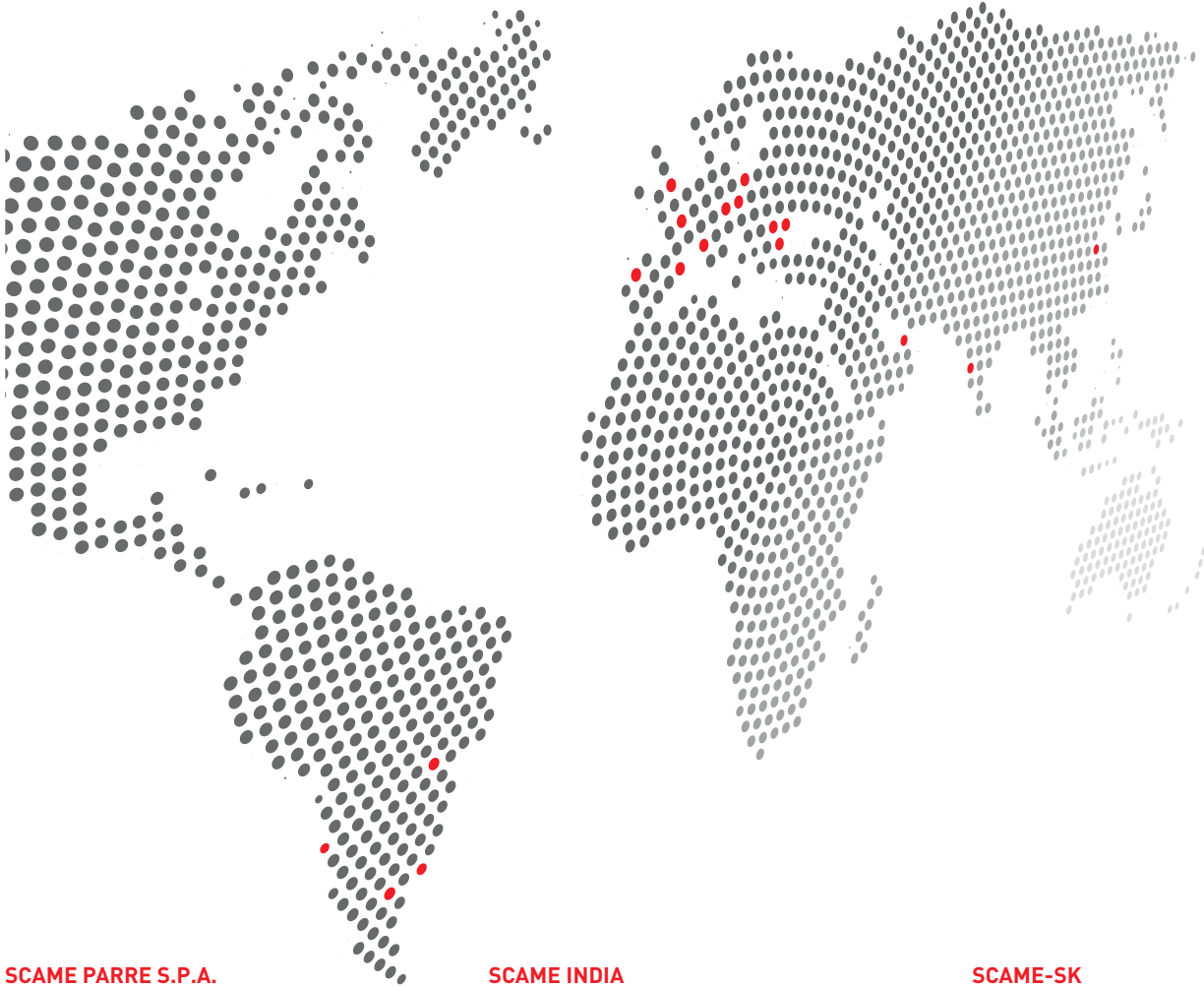
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Already a pioneer in the field of the solutions dedicated to electric vehicles charging, for which it has created a specific business

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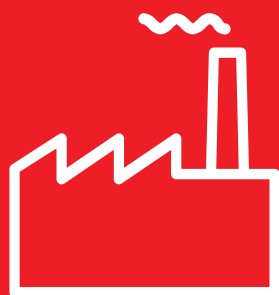
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THE CONCEPT OF QUALITY IS AN INTEGRAL PART OF OUR CULTURE IN ALL ASPECTS AND EVERY ACTIVITY OF OUR WORK.



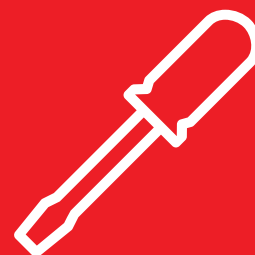


1. INDUSTRY

Systems and components for industrial electrical systems

Complete range of industrial plugs and sockets, switched interlocked socket outlets, switch-disconnectors, enclosures, distribution boards and everything necessary for a modern energy distribution system in the services, industrial, heavy industrial and building construction site sectors.

p. 10



2. INSTALLATION

Accessories for the electrical system

Complete range of cable glands, terminal strips, ties, conduit accessories and trunkings for the installation of a modern and safe electrical system. Because the quality of a system can also be recognized in the details.

p. 572



3. DOMESTIC

Products for the residential and tertiary sector

Complete range of plugs, single or multiple sockets, adaptors and cable reels to meet the connection needs in the residential and tertiary sector. The offer is completed by the watertight modular wiring devices for fixed installation.

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INFORMATION

Technical insights

Information of technical, regulatory and applicative nature to emphasize the peculiarities of the products of which the Scame offer is made up.

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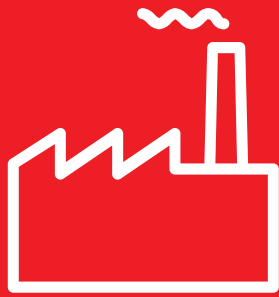
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INDUSTRIAL PLUGS AND SOCKETS



Industrial plugs and sockets to IEC 60309 rated operating voltage >50 V

CLOCK FACE POSITION







Viewing the socket from the front, the clock face position (h) is established by observing the position of the earth contact with respect to the major keyway, which is always situated at 6 o'clock. The different voltages are identified by conventional colour codes.

EXAMPLES:

- standard use h 6
- refrigerated container h 3
- marine, port or ship installation h 11
- direct current (2P + E) h 3 and 8
- supply by isolation transformer (TST)..... h 12
- high frequency, from 100 to 300 Hz h 10
- high frequency, from 300 to 500 Hz h 2
- specific voltages 100 - 130V h 4
- 480 - 500V h 7
- 600 - 690V h 5

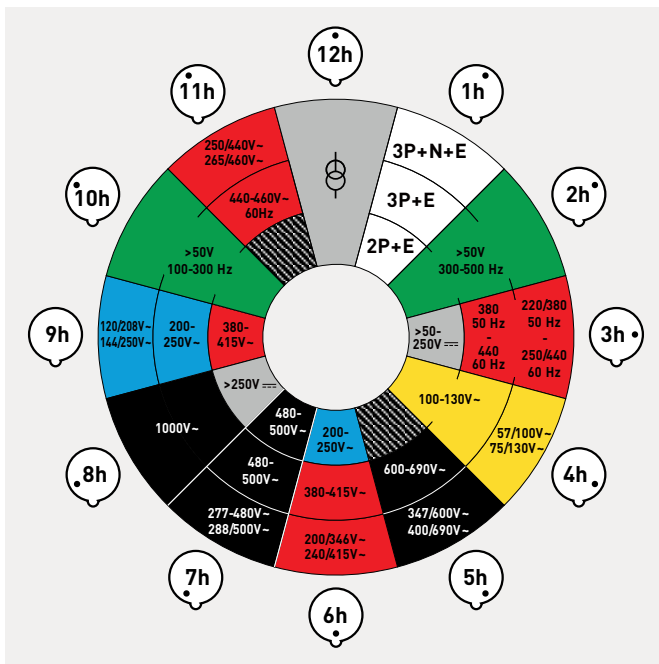
COLOUR CODE

The operating voltages are identified by conventional colours as shown in the table:

Rated operating voltage V	Colour ¹⁾
from 20 to 25	Violet 
from 40 to 50	White 
from 100 to 130	Yellow 
from 200 to 250	Blue 
from 380 to 480	Red 
from 500 to 1000	Black 

¹⁾ Combinations of green with the colour of the rated operating voltage can be used to identify frequencies between 60 Hz and 500 Hz inclusive.

CLOCK POSITION - IEC RATINGS

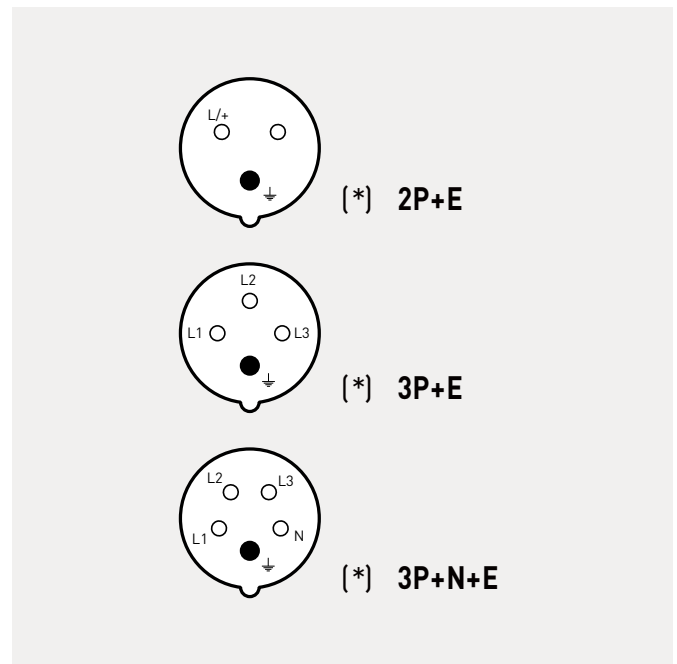


Clock diagram

Clock face position (h) of the earth pole of low voltage (>50 V) industrial plugs and sockets to IEC 60309-2 for different applications (polarity, voltage, frequency, current).

⊕ = Supply from isolation transformer.



























SOCKET (FRONT VIEW)



(*) Major keyway.

Synoptic table of standard industrial plugs and sockets to IEC 60309-2

RATED OPERATING VOLTAGE > 50 V (LV)

Number of contact	Poles	Frequency Hz	Rated operating voltage V	Clock face pos. (h) Earth contact ¹⁾		Colour code
				16A - 32A	63A - 125A	
3	2P+E	50 and 60	100÷130	4	4	
		50 and 60	200÷250	6	6	
		50 and 60	380÷415	9	9	
		50 and 60	480÷500	7	7	
		50 and 60	suppl. by isol. transf.	12	12	- 5)
		100÷300	> 50	10	10	 4)
		>300÷500	> 50	2	2	 4)
		d.c.	>50÷250	3	3	- 5)
		d.c.	> 250	8	8	- 5)
4	3P+E	50 and 60	100÷130	4	4	
		50 and 60	200÷250	9	9	
		50 and 60	380÷415	6	6	
		60	440÷460 ³⁾	11	11	
		50 and 60	480÷500	7	7	
		50 and 60	600÷690	5	5	
		50 60	380 440 ²⁾	3	3	
		50 and 60	1000	8	8	
		100÷300	> 50	10	-	 4)
		>300÷500	> 50	2	-	 4)
		5	3P+N+E	50 and 60	57/100÷75/130	4
50 and 60	120/208÷144/250			9	9	
50 and 60	200/346÷240/415			6	6	
50 and 60	277/480÷288/500			7	7	
50 and 60	347/600÷400/690			5	5	
60	250/440÷265/460 ³⁾			11	11	
50 60	220/380 250/440 ³⁾			3	3	
50 and 60	1000			8	8	
50 and 60	suppl. by isol. transf.			12	12	
100÷300	> 50			10	10	 4)
>300÷500	> 50			2	2	 4)
All types				All types of voltage and/or frequency not within these standardised configurations		1

¹⁾ The positions shown by a dash (-) are not standardised.

²⁾ For ISO standard refrigerated containers.

³⁾ Mainly for shipboard installations.

⁴⁾ Combinations of green with the colour of the rated operating voltage can be used to identify frequencies >60÷500Hz.

⁵⁾ Plugs and sockets for which the IEC 60309-2 standard sets only the clock face position (h) of the earth contact and not the colour, are supplied by SCAME in RAL 7035 grey.



1.1 INDUSTRIAL PLUGS AND SOCKETS

Plugs



PLUGS

OPTIMA SERIES

p. 22

Fast wiring industrial plugs with external cable clamp



OPTIMA-REVERSE SERIES

p. 28

Fast wiring industrial plugs with phase inverter



Applications: Construction site

OPTIMA-HD SERIES

p. 30

Fast wiring industrial plugs with phase inverter



Applications: Shipyard | Commercial Port
 Container Terminal | Heavy Industry | Chemical Industry | Quarry | Mines

EUREKA SERIES

p. 32

Industrial plugs with 90° angled cable outlet





































XENIA SERIES

p. 33

Industrial plugs with monobloc body



Plugs - Quick selection guide

				OPTIMA Series	OPTIMA-REVERSE Series	EUREKA Series	XENIA Series		
									
				IP44/IP54		IP44/IP54	IP44	IP44/IP54	
				SCREW WIRING	FAST WIRING	SCREW WIRING	SCREW WIRING	SCREW WIRING	
Poles	Volt	Colour	h	Screw terminals	Perforating terminals	Screw terminals	Screw terminals	Screw terminals	
16A	100-130V		4	213.1630 ²	213.1630P ²		221.1630	214.1630	
	2P+E	200-250V		6	213.1633 ¹ ²	213.1633P ¹ ²		221.1633	214.1633
		380-415V		9	213.1638	213.1638P			
	3P+E	100-130V		4	213.1631				
		380-415V		6	213.1636 ¹	213.1636P ¹ ²	213.1636RV	221.1636	214.1636
		200-250V		9	213.1634	213.1634P			
	3P+N+E	100-130V		4	213.1632				
		346-415V		6	213.1637 ¹	213.1637P ¹ ²	213.1637RV	221.1637	214.1637
		208-250V		9	213.1635				
				Screw terminals	Spring terminals	Screw terminals	Screw terminals	Screw terminals	
32A	100-130V		4	213.3230	213.3230F		221.3230	214.3230	
	2P+E	200-250V		6	213.3233 ¹	213.3233F ¹		221.3233	214.3233
		380-415V		9	213.3238	213.3238F			
	3P+E	100-130V		4	213.3231				
		380-415V		6	213.3236 ¹	213.3236F ¹	213.3236RV	221.3236	214.3236
		200-250V		9	213.3234	213.3234F			
	3P+N+E	100-130V		4	213.3232				
		346-415V		6	213.3237 ¹	213.3237F ¹	213.3237RV	221.3237	214.3237
		208-250V		9	213.3235				
				Mantle terminals					
63A	2P+E	200-250V		6	213.6333 ¹				
		380-415V		9	213.6338				
	3P+E	380-415V		6	213.6336 ¹				
		200-250V		9	213.6334				
	3P+N+E	346-415V		6	213.6337 ¹				
		208-250V		9	213.6335				
125A	2P+E	200-250V		6					
		380-415V		9					
	3P+E	380-415V		6					
		200-250V		9					
	3P+N+E	346-415V		6					
		208-250V		9					

Special versions



¹ Black colour - Add ".K" at the end of the catalogue number (ie. 213.1633.K).

² Transparent handle - Add ".TR" at the end of the catalogue number (ie. 213.1633.TR).

OPTIMA Series		OPTIMA-REVERSE Series	OPTIMA-HD Series	EUREKA Series
IP66/IP67/IP69		IP66/IP67/IP69	IP66/IP67/IP69	IP66/IP67
SCREW WIRING	FAST WIRING	SCREW WIRING	SCREW WIRING	SCREW WIRING
Screw terminals	Perforating terminals	Screw terminals	Screw terminals	Screw terminals
218.1630 ²	218.1630P ²			226.1630
218.1633 ¹ ²	218.1633P ¹ ²		218.1633.KX	226.1633
218.1638	218.1638P			
218.1631				
218.1636 ¹	218.1636P ¹	218.1636RV	218.1636.KX	226.1636
218.1634	218.1634P		218.1634.KX	
218.1632				
218.1637 ¹	218.1637P ¹	218.1637RV	218.1637.KX	226.1637
218.1635			218.1635.KX	
Screw terminals	Spring terminals	Screw terminals	Screw terminals	Screw terminals
218.3230	218.3230F			226.3230
218.3233 ¹	218.3233F ¹		218.3233.KX	226.3233
218.3238	218.3238F			
218.3231				
218.3236 ¹	218.3236F ¹	218.3236RV	218.3236.KX	226.3236
218.3234	218.3234F			
218.3232				
218.3237 ¹	218.3237F ¹	218.3237RV	218.3237.KX	226.3237
218.3235			218.3235.KX	
Mantle terminals			Mantle terminals	
218.6333 ¹			218.6333.KX	
218.6338				
218.6336 ¹			218.6336.KX	
218.6334				
218.6337 ¹			218.6337.KX	
218.6335			218.6335.KX	
218.12533 ¹			218.12533.KX	
218.12538				
218.12536 ¹			218.12536.KX	
218.12534				
218.12537 ¹			218.12537.KX	
218.12535			218.12535.KX	

Terminals

Operating principle of the phase inverter


³ Phase inversion is obtained simply by pushing and turning with a screwdriver the support where the two phase pins are mounted.


1.1 INDUSTRIAL PLUGS AND SOCKETS

Plugs



OPTIMA Series

OPTIMA is a complete range of industrial plugs from 16 up to 125A, robust and safe thanks to the use of high performance halogen-free technopolymers bodies and to the external cable gland with cable clamp function. Fast to wire thanks to the opening of the body by means of a snap-on steel spring mechanism, the OPTIMA series plugs are available with multiple types of terminals to always guarantee the best connection according to the type of use and wiring requirements. The efficiency of the contacts over time is also guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging.

 technical sheet p. 734

Technical information

Main characteristics



- 01** Unlosable co-moulded gasket
- 02** Ultra smooth anti-corrosion nickel-plated brass pins
- 03** 4 different types of terminals: screw (16A-32A), insulation perforating (16A), spring (16A-32A), mantle (63A-125)
- 04** Snap-on device with stainless steel spring to speed up cabling operations

- 05** Body in halogen-free materials, with high mechanical and UV rays resistance
- 06** Tulip external cable clamp with cable gland function

Special versions



Black colour

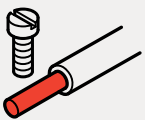


Transparent handle

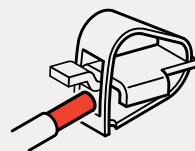


PLUGS
OPTIMA SERIES

Terminals

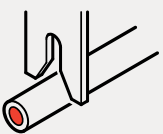


screw terminals



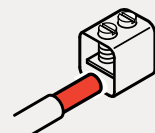
spring terminals

FAST WIRING - Anti vibrations



insulation perforating terminals

FAST WIRING



mantle terminals

Optimal connections for high currents



1.1 INDUSTRIAL PLUGS AND SOCKETS

Plugs

■ PLUGS - IP44/IP54 >> SCREW TERMINALS



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	16A	10/50	32A	10/40
2P+E	2	>300-500	>50	Green	213.16332	10/50	213.32332	10/40
	3	DC	>50-250	Grey	213.16334	10/50	213.32334	10/40
	4	50 60	100-130	Yellow	213.16330 ¹⁾	10/50	213.32330	10/40
	6	50 60	200-250	Blue	213.16333 ^{1) 2)}	10/50	213.32333 ²⁾	10/40
	7	50 60	480-500	Black	213.16336	10/50	213.32336	10/40
	8	DC	>250	Grey	213.16338	10/50	213.32338	10/40
	9	50 60	380-415	Red	213.16338	10/50	213.32338	10/40
	10	100-300	>50	Green	213.16331		213.32331	
	12	50 60	TST>50	Grey	213.16333	10/50	213.32333	10/40
	3P+E	2	>300-500	>50	Green	213.16362	10/50	213.32362
3		50 60	380 50Hz / 440 60Hz	Red	213.16364	10/50	213.32364	10/40
4		50 60	100-130	Yellow	213.16361	10/50	213.32361	10/40
5		50 60	600-690	Black	213.16367	10/50	213.32367	10/40
6		50 60	380-415	Red	213.16366 ²⁾	10/50	213.32366 ²⁾	10/40
7		50 60	480-500	Black	213.16366	10/50	213.32366	10/40
9		50 60	200-250	Blue	213.16364	10/50	213.32364	10/40
10		100-300	>50	Green	213.16361	10/50	213.32361	10/40
3P+N+E	11	60	440-460	Red	213.16365	10/50	213.32365	10/40
	2	>300-500	>50	Green	213.16372	10/50	213.32372	10/40
	3	50 60	380 50Hz / 440 60Hz	Red	213.16374	10/50	213.32374	10/40
	4	50 60	100-130	Yellow	213.16372	10/50	213.32372	10/40
	5	50 60	600-690	Black	213.16377	10/50	213.32377	10/40
	6	50 60	346-415	Red	213.16376 ²⁾	10/50	213.32376 ²⁾	10/40
	7	50 60	480-500	Black	213.16376	10/50	213.32376	10/40
	9	50 60	208-250	Blue	213.16375	10/50	213.32375	10/40
	10	100-300	>50	Green	213.16371	10/50	213.32371	
	11	60	440-460	Red	213.16375	10/50	213.32375	10/40

¹⁾Version also available with transparent handle; just add ".TR" at the end of the catalogue number.

²⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ PLUGS - IP44/IP54 >> PERFORATING TERMINALS



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	16A	10/50
2P+E	4	50 60	100-130	Yellow	213.1630P ¹⁾	10/50
	6	50 60	200-250	Blue	213.1633P ^{1) 2)}	10/50
	9	50 60	380-415	Red	213.1638P	10/50
3P+E	6	50 60	380-415	Red	213.1636P ^{1) 2)}	10/50
	9	50 60	200-250	Blue	213.1634P	10/50
3P+N+E	6	50 60	346-415	Red	213.1637P ^{1) 2)}	10/50

¹⁾Version also available with transparent handle; just add ".TR" at the end of the catalogue number.

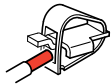
²⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ PLUGS - IP44/IP54 >> SPRING TERMINALS



Poles	h	Hz	Volt	Colour	32A	
2P+E	4	50 60	100-130		213.3230F	10/40
	6	50 60	200-250		213.3233F ¹⁾	10/40
	9	50 60	380-415		213.3238F	10/40
3P+E	6	50 60	380-415		213.3236F ¹⁾	10/40
	9	50 60	200-250		213.3234F	10/40
3P+N+E	6	50 60	346-415		213.3237F ¹⁾	10/40

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP44/IP54

PLUGS
OPTIMA SERIES

■ PLUGS - IP44/IP54 >> MANTLE TERMINALS



Poles	h	Hz	Volt	Colour	63A		
2P+E	2	>300-500	>50		213.63332	6/24	
	3	DC	>50-250		213.63334	6/24	
	4	50 60	100-130		213.63330	6/24	
	6	50 60	200-250		213.63331 ¹⁾	6/24	
	7	50 60	480-500		213.63336	6/24	
	8	DC	>250		213.63338	6/24	
	9	50 60	380-415		213.63338	6/24	
	10	100-300	>50		213.63331		
	12	50 60	TST>50		213.63333	6/24	
	3P+E	2	>300-500	>50		213.63362	6/24
		3	50 60	380 50Hz / 440 60Hz		213.63364	6/24
		4	50 60	100-130		213.63331	6/24
5		50 60	600-690		213.63367	6/24	
6		50 60	380-415		213.6336 ¹⁾	6/24	
7		50 60	480-500		213.63366	6/24	
9		50 60	200-250		213.63334	6/24	
10		100-300	>50		213.63361	6/24	
11		60	440-460		213.63365	6/24	
3P+N+E		2	>300-500	>50		213.63372	6/24
		3	50 60	380 50Hz / 440 60Hz		213.63374	6/24
		4	50 60	100-130		213.63332	6/24
	5	50 60	600-690		213.63377	6/24	
	6	50 60	346-415		213.6337 ¹⁾	6/24	
	7	50 60	480-500		213.63376	6/24	
	9	50 60	208-250		213.63335	6/24	
	10	100-300	>50		213.63371		
	11	60	440-460		213.63375	6/24	

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP44/IP54

1.1 INDUSTRIAL PLUGS AND SOCKETS

Plugs

■ PLUGS - IP66/IP67/IP69 >> SCREW TERMINALS



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A	10/40	32A	10/40	
2P+E	2	>300-500	>50	Green	218.16332	10/40	218.32332	10/40	
	3	DC	>50-250	Grey	218.16334	10/40	218.32334	10/40	
	4	50 60	100-130	Yellow	218.16330 ¹⁾	10/40	218.32330	10/40	
	6	50 60	200-250	Blue	218.16333 ^{1) 2)}	10/40	218.32333 ²⁾	10/40	
	7	50 60	480-500	Black	218.16336	10/40	218.32336	10/40	
	8	DC	>250	Grey	218.16338	10/40	218.32338	10/40	
	9	50 60	380-415	Red	218.16338	10/40	218.32338	10/40	
	10	100-300	>50	Green	218.16331		218.32331		
	12	50 60	TST>50	Grey	218.16333	10/40	218.32333	10/40	
	3P+E	2	>300-500	>50	Green	218.16362	10/40	218.32362	10/40
		3	50 60	380 50Hz / 440 60Hz	Red	218.16364	10/40	218.32364	10/40
		4	50 60	100-130	Yellow	218.16361	10/40	218.32361	10/40
5		50 60	600-690	Black	218.16367	10/40	218.32367	10/40	
6		50 60	380-415	Red	218.16366 ²⁾	10/40	218.32366 ²⁾	10/40	
7		50 60	480-500	Black	218.16366	10/40	218.32366	10/40	
9		50 60	200-250	Blue	218.16364	10/40	218.32364	10/40	
10		100-300	>50	Green	218.16361	10/40	218.32361	10/40	
11		60	440-460	Red	218.16365	10/40	218.32365	10/40	
12		50 60	TST>50	Grey	218.16363	10/40			
3P+N+E		2	>300-500	>50	Green	218.16372	10/40	218.32372	10/40
		3	50 60	380 50Hz / 440 60Hz	Red	218.16374	10/40	218.32374	10/40
	4	50 60	100-130	Yellow	218.16372	10/40	218.32372	10/40	
	5	50 60	600-690	Black	218.16377	10/40	218.32377	10/40	
	6	50 60	346-415	Red	218.16377 ²⁾	10/40	218.32377 ²⁾	10/40	
	7	50 60	480-500	Black	218.16376	10/40	218.32376	10/40	
	9	50 60	208-250	Blue	218.16375	10/40	218.32375	10/40	
	10	100-300	>50	Green	218.16371		218.32371		
	11	60	440-460	Red	218.16375	10/40	218.32375	10/40	

¹⁾Version also available with transparent handle; just add ".TR" at the end of the catalogue number.

²⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ PLUGS - IP66/IP67/IP69 >> PERFORATING TERMINALS



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A	10/40
2P+E	4	50 60	100-130	Yellow	218.1630P ¹⁾	10/40
	6	50 60	200-250	Blue	218.1633P ^{1) 2)}	10/40
	9	50 60	380-415	Red	218.1638P	10/40
3P+E	6	50 60	380-415	Red	218.1636P ²⁾	10/40
	9	50 60	200-250	Blue	218.1634P	10/40
3P+N+E	6	50 60	346-415	Red	218.1637P ²⁾	10/40

¹⁾Version also available with transparent handle; just add ".TR" at the end of the catalogue number.

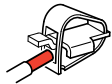
²⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ PLUGS - IP66/IP67/IP69 >> SPRING TERMINALS



Poles	h	Hz	Volt	Colour	32A	
2P+E	4	50 60	100-130		218.3230F	10/40
	6	50 60	200-250		218.3233F ¹⁾	10/40
	9	50 60	380-415		218.3238F	10/40
3P+E	3	50 60	380 50Hz / 440 60Hz		218.32364F	10/40
	6	50 60	380-415		218.3236F ¹⁾	10/40
	9	50 60	200-250		218.3234F	10/40
3P+N+E	6	50 60	346-415		218.3237F ¹⁾	10/40

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP66/IP67/IP69



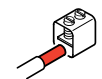
PLUGS
OPTIMA SERIES

■ PLUGS - IP66/IP67/IP69 >> MANTLE TERMINALS



Poles	h	Hz	Volt	Colour	63A		125A	
2P+E	2	>300-500	>50		218.63332	6/24	218.125332	1/8
	3	DC	>50-250		218.63334	6/24	218.125334	1/8
	4	50 60	100-130		218.63330	6/24	218.125330	1/8
	6	50 60	200-250		218.63331 ¹⁾	6/24	218.125331 ¹⁾	1/8
	7	50 60	480-500		218.63336	6/24	218.125336	1/8
	8	DC	>250		218.63338	6/24	218.125338	1/8
	9	50 60	380-415		218.63338	6/24	218.125338	1/8
	10	100-300	>50		218.63331		218.125331	
	12	50 60	TST>50		218.63333	6/24	218.125333	1/8
	3P+E	2	>300-500	>50		218.63362	6/24	218.125362
3		50 60	380 50Hz / 440 60Hz		218.63364	6/24	218.125364	1/8
4		50 60	100-130		218.63331	6/24	218.125331	1/8
5		50 60	600-690		218.63367	6/24	218.125367	1/8
6		50 60	380-415		218.63361 ¹⁾	6/24	218.125361 ¹⁾	1/8
7		50 60	480-500		218.63366	6/24	218.125366	1/8
9		50 60	200-250		218.63334	6/24	218.125334	1/8
10		100-300	>50		218.63361	6/24	218.125361	1/8
11		60	440-460		218.63365	6/24	218.125365	1/8
3P+N+E		2	>300-500	>50		218.63372	6/24	218.125372
	3	50 60	380 50Hz / 440 60Hz		218.63374	6/24	218.125374	1/8
	4	50 60	100-130		218.63332	6/24	218.125332	1/8
	5	50 60	600-690		218.63377	6/24	218.125377	1/8
	6	50 60	346-415		218.63371 ¹⁾	6/24	218.125371 ¹⁾	1/8
	7	50 60	480-500		218.63376	6/24	218.125376	1/8
	9	50 60	208-250		218.63335	6/24	218.125335	1/8
	10	100-300	>50		218.63371		218.125371	
11	60	440-460		218.63375	6/24	218.125375	1/8	

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP66/IP67/IP69



OPTIMA-REVERSE Series

OPTIMA-REVERSE is a range of 16 and 32A industrial plugs, which allow the rapid reversal of two phases to restore the correct direction of rotation for three-phase motors of mobile and fixed loads.

The inversion of the phases is done simply by pushing and turning by a screwdriver the support where the two phase pins are mounted.

Robust and safe industrial plugs, thanks to the use of high performance technopolymer bodies and to the external cable gland with cable clamp function. The efficiency of the contacts over time is also guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging. Quick to wire thanks to the opening of the body by means of a snap-on steel spring mechanism and screw terminals, the Optima Reverse series plugs do not neglect the environmental aspect, being produced with halogen-free materials.

technical sheet p. 742

Technical information

Main characteristics



- 01** Unlosable co-moulded gasket
- 02** Phase inverter. Phase inversion is obtained simply by pushing and turning with a screwdriver the support where the two phase pins are mounted
- 03** Ultra smooth anti-corrosion nickel-plated brass pins
- 04** Screw terminals
- 05** Snap-on device with stainless steel spring to speed up cabling operations
- 06** Body in halogen-free materials, with high mechanical and UV rays resistance
- 07** Tulip external cable clamp with cable gland function

Applications examples



Building construction site

■ PLUGS WITH PHASE INVERTER - IP44/IP54



Poles	h	Hz	Volt	Colour	16A		32A	
3P+E	6	50 60	380-415		213.1636RV	10/50	213.3236RV	10/40
3P+N+E	6	50 60	346-415		213.1637RV	10/50	213.3237RV	10/40



IP: IP44/IP54

■ PLUGS WITH PHASE INVERTER - IP66/IP67/IP69



Poles	h	Hz	Volt	Colour	16A		32A	
3P+E	6	50 60	380-415		218.1636RV	10/40	218.3236RV	10/40
3P+N+E	6	50 60	346-415		218.1637RV	10/40	218.3237RV	10/40



IP: IP66/IP67/IP69

Terminals



screw terminals





OPTIMA-HD Series

OPTIMA-HD is a range of industrial plugs from 16 to 125A characterized by the use of specific technopolymers that give maximum resistance to impacts (IK10), to heat and fire (GW 960 ° C according to EN 60695-2-1), to atmospheric agents and UV rays

The OPTIMA-HD electric plugs are therefore suitable for use in harsh environments such as iron and steel industries, ports and mines.

The efficiency of the contacts over time is also guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging. Fast to wire thanks to the opening of the body by means of a snap-on steel spring mechanism and screw terminals.

technical sheet p. 744

Technical information

Main characteristics



- 01** Unlosable co-moulded gasket
- 02** Ultra smooth anti-corrosion nickel-plated brass pins
- 03** 2 different types of terminals: screw (16A-32A) or mantle (63A-125A)
- 04** Snap-on device with stainless steel spring to speed up cabling operations
- 05** Body in technopolymers with very high resistance to impact (IK10), to heat and fire (GW 960°C), to atmospheric agents and UV rays
- 06** Tulip external cable clamp with cable gland function

Applications examples



Shipyards - Container terminal



Heavy industry



Mining industry

PLUGS - IP66/IP67/IP69



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	6	50 60	200-250		218.1633.KX	10/40	218.3233.KX	10/40
	3	50 60	380 50Hz / 440 60Hz				218.32364.KX	10/40
3P+E	6	50 60	380-415		218.1636.KX	10/40	218.3236.KX	10/40
	9	50 60	200-250		218.1634.KX	10/40		
3P+N+E	6	50 60	346-415		218.1637.KX	10/40	218.3237.KX	10/40
	9	50 60	208-250		218.1635.KX	10/40	218.3235.KX	10/40

High impact resistance.
High heat and fire resistance.



IP: IP66/IP67/IP69

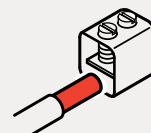
Poles	h	Hz	Volt	Colour	63A		125A	
2P+E	6	50 60	200-250		218.6333.KX	6/24	218.12533.KX	1/8
	6	50 60	380-415		218.6336.KX	6/24	218.12536.KX	1/8
3P+E	11	60	440-460		218.63365.KX	6/24		
	6	50 60	346-415		218.6337.KX	6/24	218.12537.KX	1/8
3P+N+E	9	50 60	208-250		218.6335.KX	6/24	218.12535.KX	1/8

High impact resistance.
High heat and fire resistance.

Terminals



screw terminals



mantle terminals



Optimal connections for high currents

1.1 INDUSTRIAL PLUGS AND SOCKETS

Plugs



EUREKA Series

EUREKA is a range of 16 and 32A industrial plugs with 90° cable outlet.

The efficiency of the contacts over time is also guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging. Quick to wire thanks to the opening of the body by means of a snap-on steel spring mechanism and screw terminals.

technical sheet p. 730

■ PLUGS - IP44 >> SCREW TERMINALS - ANGLED OUTLET



Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	4	50 60	100-130		221.1630	10/100	221.3230	10/60
	6	50 60	200-250		221.1633	10/100	221.3233	10/60
3P+E	6	50 60	380-415		221.1636	10/100	221.3236	10/60
3P+N+E	6	50 60	346-415		221.1637	10/100	221.3237	10/50



IP: IP44

■ PLUGS - IP66/IP67 >> SCREW TERMINALS - ANGLED OUTLET



Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	4	50 60	100-130		226.1630	10/100	226.3230	10/40
	6	50 60	200-250		226.1633	10/100	226.3233	10/40
3P+E	6	50 60	380-415		226.1636	10/100	226.3236	10/40
3P+N+E	6	50 60	346-415		226.1637	10/50	226.3237	10/40



IP: IP66/IP67



XENIA Series

XENIA is a range of industrial plugs with technopolymer monobloc body, screw terminals and external cable clamp.

technical sheet p. 748

■ PLUGS - IP44/IP54



Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	4	50 60	100-130		214.1630	50	214.3230	25
	6	50 60	200-250		214.1633	50	214.3233	25
3P+E	6	50 60	380-415		214.1636	40	214.3236	25
3P+N+E	6	50 60	346-415		214.1637	30	214.3237	20



IP: IP44/IP54

1.1 INDUSTRIAL PLUGS AND SOCKETS

Flush mounting appliance inlets



FLUSH MOUNTING APPLIANCE INLETS

OPTIMA SERIES

p. 38

Flush mounting appliance inlets



OPTIMA-REVERSE SERIES

p. 42

Flush mounting industrial appliance inlets with phase inverter




































Applications: Construction site

EUREKA SERIES

p. 44

Flush mounting industrial appliance inlets 90° angled



				OPTIMA Series	OPTIMA-REVERSE Series	EUREKA Series
						
				IP44/IP54	IP44/IP54	IP44
				SCREW WIRING	SCREW WIRING	SCREW WIRING
	Poles	Volt	Colour	h	Screw terminals	Screw terminals
16A	2P+E	100-130V		4	243.1690	242.1690
		200-250V		6	243.1693 ^[1]	242.1693
		380-415V		9	243.1698	242.1698
	3P+E	100-130V		4	243.1691	242.1691
		380-415V		6	243.1696 ^[1]	243.1696RV
		200-250V		9	243.1694	242.1694
	3P+N+E	100-130V		4	243.1692	242.1692
		346-415V		6	243.1697 ^[1]	243.1697RV
		208-250V		9	243.1695	242.1695
				Screw terminals	Screw terminals	Screw terminals
32A	2P+E	100-130V		4	243.3290	242.3290
		200-250V		6	243.3293 ^[1]	242.3293
		380-415V		9	243.3298	242.3298
	3P+E	100-130V		4	243.3291	242.3291
		380-415V		6	243.3296 ^[1]	243.3296RV
		200-250V		9	243.3294	242.3294
	3P+N+E	100-130V		4	243.3292	242.3292
		346-415V		6	243.3297 ^[1]	243.3297RV
		208-250V		9	243.3295	242.3295
				Mantle terminals		
63A	2P+E	200-250V		6	243.6393 ^[1]	
		380-415V		9	243.6398	
	3P+E	380-415V		6	243.6396 ^[1]	
		200-250V		9	243.6394	
	3P+N+E	346-415V		6	243.6397 ^[1]	
		208-250V		9	243.6395	
125A	2P+E	200-250V		6		
		380-415V		9		
	3P+E	380-415V		6		
		200-250V		9		
	3P+N+E	346-415V		6		
		208-250V		9		

Special versions



^[1] Black colour - Add ".K" at the end of the catalogue number [ie. 243.1693.K].

OPTIMA Series	OPTIMA-REVERSE Series	EUREKA Series
	² REVERSE	
IP66/IP67/IP69	IP66/IP67/IP69	IP66/IP67
SCREW WIRING	SCREW WIRING	SCREW WIRING
Screw terminals	Screw terminals	Screw terminals
248.1690		247.1690
248.1693 ¹		247.1693
248.1698		247.1698
248.1691		247.1691
248.1696 ¹	248.1696RV	247.1696
248.1694		247.1694
248.1692		247.1692
248.1697 ¹	248.1697RV	247.1697
248.1695		247.1695
Screw terminals	Screw terminals	Screw terminals
248.3290		247.3290
248.3293 ¹		247.3293
248.3298		247.3298
248.3291		247.3291
248.3296 ¹	248.3296RV	247.3296
248.3294		247.3294
248.3292		247.3292
248.3297 ¹	248.3297RV	247.3297
248.3295		247.3295
Mantle terminals		
248.6393 ¹		
248.6398		
248.6396 ¹		
248.6394		
248.6397 ¹		
248.6395		
248.12593 ¹		
248.12598		
248.12596 ¹		
248.12594		
248.12597 ¹		
248.12595		

Terminals

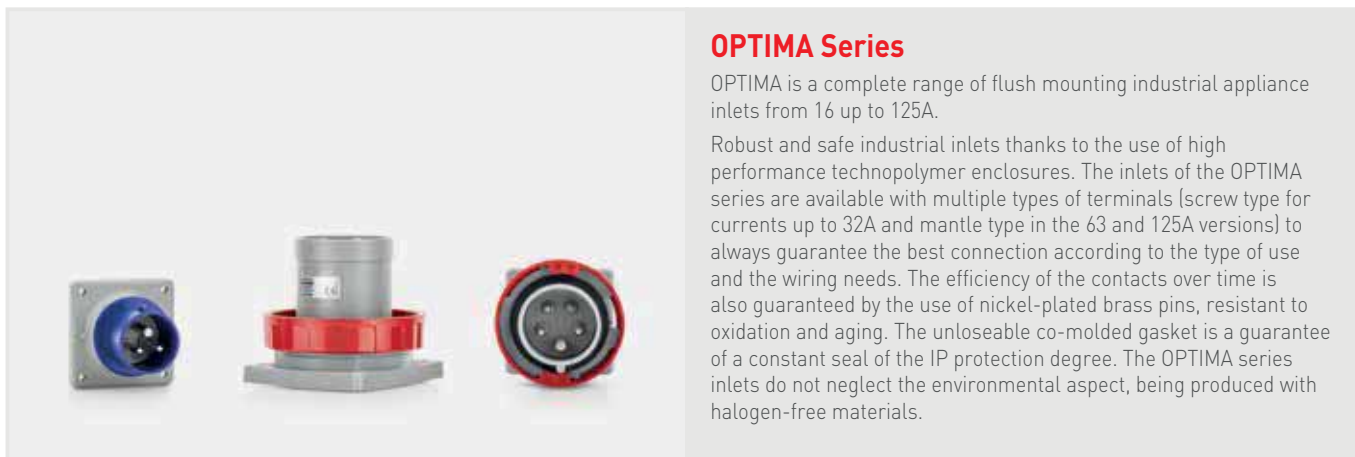

Optimal connections for high currents

Operating principle of the phase inverter


² Phase inversion is obtained simply by pushing and turning with a screwdriver the support where the two phase pins are mounted.

1.1 INDUSTRIAL PLUGS AND SOCKETS


Flush mounting appliance inlets



OPTIMA Series

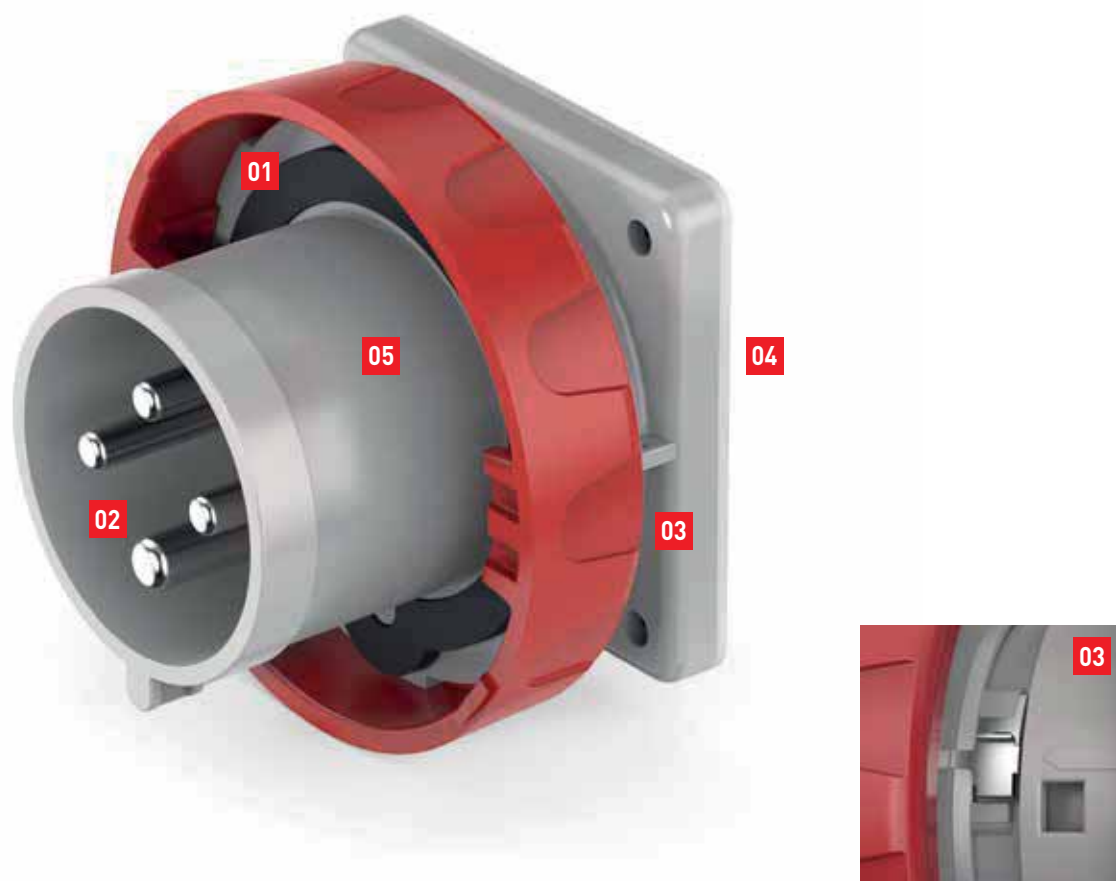
OPTIMA is a complete range of flush mounting industrial appliance inlets from 16 up to 125A.

Robust and safe industrial inlets thanks to the use of high performance technopolymer enclosures. The inlets of the OPTIMA series are available with multiple types of terminals (screw type for currents up to 32A and mantle type in the 63 and 125A versions) to always guarantee the best connection according to the type of use and the wiring needs. The efficiency of the contacts over time is also guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging. The unloseable co-molded gasket is a guarantee of a constant seal of the IP protection degree. The OPTIMA series inlets do not neglect the environmental aspect, being produced with halogen-free materials.

 technical sheet p. 734

Technical information

Main characteristics



- 01** Unloseable co-moulded gasket
- 02** Ultra smooth anti-corrosion nickel-plated brass pins
- 03** Snap-on device with stainless steel spring to speed up disassembly operations and cabling checking, in applications with continuous vibrations and mechanical stresses
- 04** 2 different types of terminals: screw (16A-32A) or mantle (63A-125A)
- 05** Body in halogen-free materials, with high mechanical and UV rays resistance

■ FLUSH MOUNTING APPLIANCE INLETS - IP44/IP54 >> SCREW TERMINALS - STRAIGHT OUTLET



IP: IP44/IP54
Flange: 75X75MM

Poles	h	Hz	Volt	Colour	16A	32A
2P+E	4	50 60	100-130	Yellow	243.1690	243.3290
	6	50 60	200-250	Blue	243.1693 ¹⁾	243.3293 ¹⁾
	9	50 60	380-415	Red	243.1698	243.3298
3P+E	3	50 60	380 50Hz / 440 60Hz	Red	243.16964	243.32964
	4	50 60	100-130	Yellow	243.1691	243.3291
	6	50 60	380-415	Red	243.1696 ¹⁾	243.3296 ¹⁾
	9	50 60	200-250	Blue	243.1694	243.3294
3P+N+E	11	60	440-460	Red	243.16965	243.32965
	3	50 60	380 50Hz / 440 60Hz	Red	243.16974	243.32974
	4	50 60	100-130	Yellow	243.1692	243.3292
	6	50 60	346-415	Red	243.1697 ¹⁾	243.3297 ¹⁾
	9	50 60	208-250	Blue	243.1695	243.3295
	11	60	440-460	Red	243.16975	243.32975

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ FLUSH MOUNTING APPLIANCE INLETS - IP44/IP54 >> MANTLE TERMINALS - STRAIGHT OUTLET



IP: IP44/IP54
Flange: 100X110MM

Poles	h	Hz	Volt	Colour	63A
2P+E	2	>300-500	>50	Green	243.63932
	3	DC	>50-250	Grey	243.63934
	4	50 60	100-130	Yellow	243.6390
	6	50 60	200-250	Blue	243.6393 ¹⁾
	7	50 60	480-500	Black	243.63936
	8	DC	>250	Grey	243.63938
	9	50 60	380-415	Red	243.6398
	10	100-300	>50	Green	243.63931
	12	50 60	TST>50	Grey	243.63933
	3P+E	2	>300-500	>50	Green
3		50 60	380 50Hz / 440 60Hz	Red	243.63964
4		50 60	100-130	Yellow	243.6391
5		50 60	600-690	Black	243.63967
6		50 60	380-415	Red	243.6396 ¹⁾
7		50 60	480-500	Black	243.63966
9		50 60	200-250	Blue	243.6394
10		100-300	>50	Green	243.63961
11		60	440-460	Red	243.63965
3P+N+E		2	>300-500	>50	Green
	3	50 60	380 50Hz / 440 60Hz	Red	243.63974
	4	50 60	100-130	Yellow	243.6392
	5	50 60	600-690	Black	243.63977
	6	50 60	346-415	Red	243.6397 ¹⁾
	7	50 60	480-500	Black	243.63976
	9	50 60	208-250	Blue	243.6395
	10	100-300	>50	Green	243.63971
	11	60	440-460	Red	243.63975

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



FLUSH MOUNTING APPLIANCE INLETS
OPTIMA SERIES



■ FLUSH MOUNTING APPLIANCE INLETS - IP66/IP67/IP69 >> SCREW TERMINALS - STRAIGHT OUTLET


IP: IP66/IP67/IP69
Flange: 75X75MM

Poles	h	Hz	Volt	Colour	16A		32A		
2P+E	2	>300-500	>50	■	248.16932	10/50	248.32932	10/50	
	3	DC	>50-250	■	248.16934	10/50	248.32934	10/50	
	4	50 60	100-130	■	248.1690	10/50	248.3290	10/50	
	6	50 60	200-250	■	248.1693 ¹⁾	10/50	248.3293 ¹⁾	10/50	
	7	50 60	480-500	■	248.16936	10/50	248.32936	10/50	
	8	DC	>250	■	248.16938	10/50	248.32938	10/50	
	9	50 60	380-415	■	248.1698	10/50	248.3298	10/50	
	10	100-300	>50	■	248.16931		248.32931		
	12	50 60	TST>50	■	248.16933	10/50	248.32933	10/50	
	3P+E	2	>300-500	>50	■	248.16962	10/50	248.32962	10/50
		3	50 60	380 50Hz / 440 60Hz	■	248.16964	10/50	248.32964	10/50
		4	50 60	100-130	■	248.1691	10/50	248.3291	10/50
5		50 60	600-690	■	248.16967	10/50	248.32967	10/50	
6		50 60	380-415	■	248.1696 ¹⁾	10/50	248.3296 ¹⁾	10/50	
7		50 60	480-500	■	248.16966	10/50	248.32966	10/50	
9		50 60	200-250	■	248.1694	10/50	248.3294	10/50	
10		100-300	>50	■	248.16961	10/50	248.32961	10/50	
11		60	440-460	■	248.16965	10/50	248.32965	10/50	
3P+N+E		2	>300-500	>50	■	248.16972	10/50	248.32972	10/40
		3	50 60	380 50Hz / 440 60Hz	■	248.16974	10/50	248.32974	10/40
	4	50 60	100-130	■	248.1692	10/50	248.3292	10/40	
	5	50 60	600-690	■	248.16977	10/50	248.32977	10/40	
	6	50 60	346-415	■	248.1697 ¹⁾	10/50	248.3297 ¹⁾	10/40	
	7	50 60	480-500	■	248.16976	10/50	248.32976	10/40	
	9	50 60	208-250	■	248.1695	10/50	248.3295	10/40	
	10	100-300	>50	■	248.16971	10/50	248.32971		
	11	60	440-460	■	248.16975	10/50	248.32975	10/40	

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ FLUSH MOUNTING APPLIANCE INLETS - IP66/IP67/IP69 >> MANTLE TERMINALS - STRAIGHT OUTLET



FLUSH MOUNTING APPLIANCE INLETS
OPTIMA SERIES



IP: IP66/IP67/IP69
Flange: 100X110MM

Poles	h	Hz	Volt	Colour	63A	
2P+E	2	>300-500	>50		248.63932	10
	3	DC	>50-250		248.63934	10
	4	50 60	100-130		248.6390	10
	6	50 60	200-250		248.6393 ¹⁾	10
	7	50 60	480-500		248.63936	10
	8	DC	>250		248.63938	10
	9	50 60	380-415		248.6398	10
	10	100-300	>50		248.63931	10
	12	50 60	TST>50		248.63933	10
	3P+E	2	>300-500	>50		248.63962
3		50 60	380 50Hz / 440 60Hz		248.63964	10
4		50 60	100-130		248.6391	10
5		50 60	600-690		248.63967	10
6		50 60	380-415		248.6396 ¹⁾	10
7		50 60	480-500		248.63966	10
9		50 60	200-250		248.6394	10
10		100-300	>50		248.63961	10
11		60	440-460		248.63965	10
3P+N+E		2	>300-500	>50		248.63972
	3	50 60	380 50Hz / 440 60Hz		248.63974	10
	4	50 60	100-130		248.6392	10
	5	50 60	600-690		248.63977	10
	6	50 60	346-415		248.6397 ¹⁾	10
	7	50 60	480-500		248.63976	10
	9	50 60	208-250		248.6395	10
	10	100-300	>50		248.63971	10
	11	60	440-460		248.63975	10

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP66/IP67/IP69
Flange: 114X114MM

Poles	h	Hz	Volt	Colour	125A	
2P+E	2	>300-500	>50		248.125932	10
	3	DC	>50-250		248.125934	10
	4	50 60	100-130		248.12590	10
	6	50 60	200-250		248.12593 ¹⁾	10
	7	50 60	480-500		248.125936	10
	8	DC	>250		248.125938	10
	9	50 60	380-415		248.12598	10
	10	100-300	>50		248.125931	10
	12	50 60	TST>50		248.125933	10
	3P+E	2	>300-500	>50		248.125962
3		50 60	380 50Hz / 440 60Hz		248.125964	10
4		50 60	100-130		248.12591	10
5		50 60	600-690		248.125967	10
6		50 60	380-415		248.12596 ¹⁾	10
7		50 60	480-500		248.125966	10
9		50 60	200-250		248.12594	10
10		100-300	>50		248.125961	10
11		60	440-460		248.125965	10
3P+N+E		2	>300-500	>50		248.125972
	3	50 60	380 50Hz / 440 60Hz		248.125974	10
	4	50 60	100-130		248.12592	10
	5	50 60	600-690		248.125977	10
	6	50 60	346-415		248.12597 ¹⁾	10
	7	50 60	480-500		248.125976	10
	9	50 60	208-250		248.12595	10
	10	100-300	>50		248.125971	10
	11	60	440-460		248.125975	10

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

1.1 INDUSTRIAL PLUGS AND SOCKETS

Flush mounting appliance inlets




OPTIMA-REVERSE Series

OPTIMA-REVERSE is a range of 16 and 32A flush mounting industrial inlets that allow the rapid reversal of two phases to restore the correct direction of rotation for three-phase motors of mobile and fixed loads.

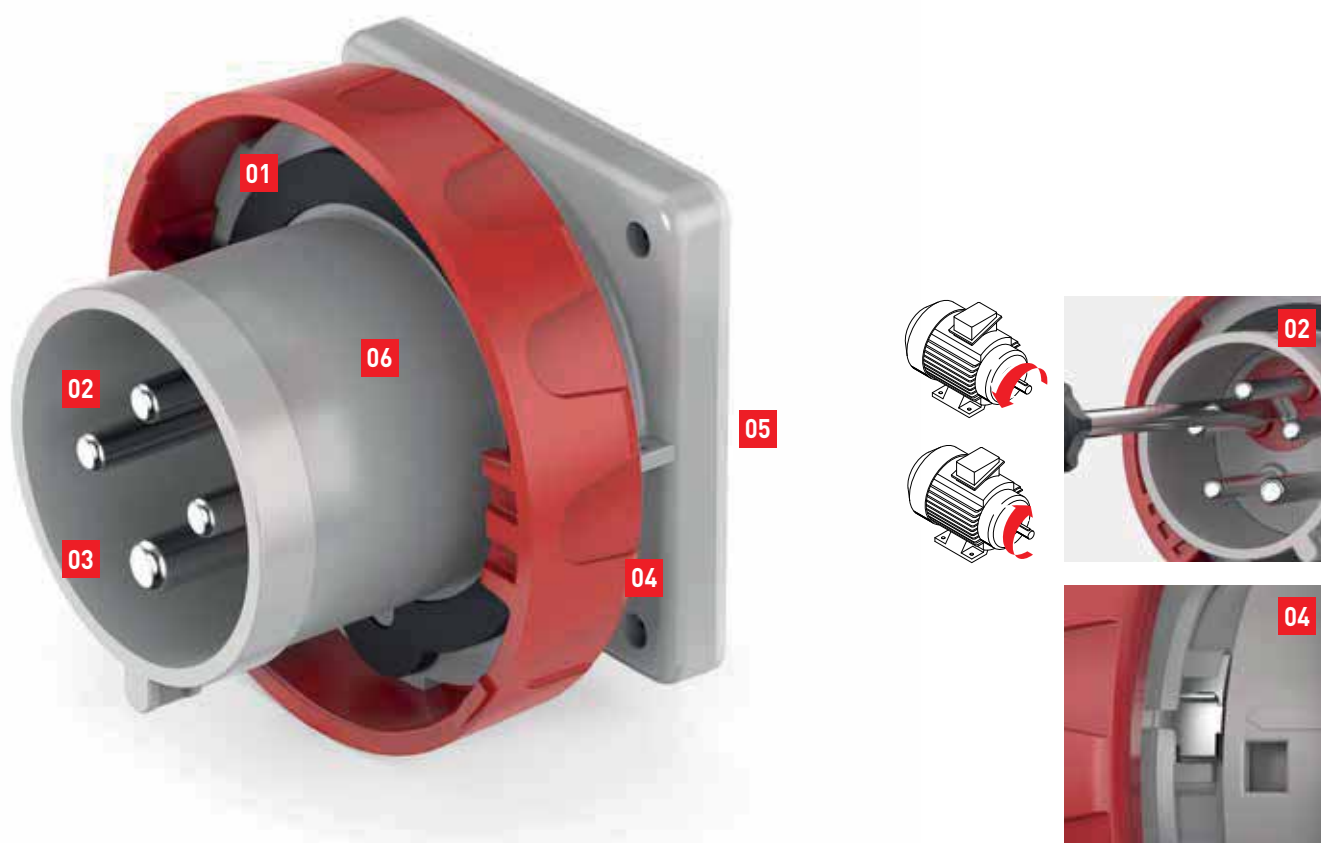
The inversion of the phases is done simply by pushing and turning with a screwdriver the support where the two phase pins are mounted.

The efficiency of the contacts over time is also guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging, while the IP degree stability is ensured by the co-molded gasket. The OPTIMA-REVERSE series plugs do not neglect the environmental aspect, being produced with halogen-free materials.

 technical sheet p. 742

Technical information

Main characteristics



- 01** Unlosable co-moulded gasket
- 02** Phase inverter. Phase inversion is obtained simply by pushing and turning with a screwdriver the support where the two phase pins are mounted
- 03** Ultra smooth anti-corrosion nickel-plated brass pins
- 04** Snap-on device with stainless steel spring to speed up disassembly operations and cabling checking, in applications with continuous vibrations and mechanical stresses
- 05** Screw terminals
- 06** Body in halogen-free materials, with high mechanical and UV rays resistance

■ FLUSH MOUNTING APPLIANCE INLETS WITH PHASE INVERTER - IP44/IP54



Poles	h	Hz	Volt	Colour	16A		32A	
3P+E	6	50 60	380-415		243.1696RV	10/50	243.3296RV	10/50
3P+N+E	6	50 60	346-415		243.1697RV	10/50	243.3297RV	10/40



IP: IP44/IP54
Flange: 75X75MM

■ FLUSH MOUNTING APPLIANCE INLETS WITH PHASE INVERTER - IP66/IP67/IP69



Poles	h	Hz	Volt	Colour	16A		32A	
3P+E	6	50 60	380-415		248.1696RV	10/50	248.3296RV	10/50
3P+N+E	6	50 60	346-415		248.1697RV	10/50	248.3297RV	10/40



IP: IP66/IP67/IP69
Flange: 75X75MM

Terminals

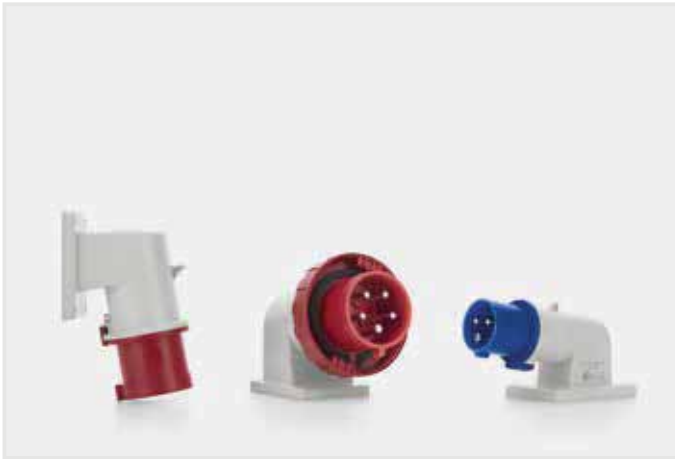


screw terminals



1.1 INDUSTRIAL PLUGS AND SOCKETS

Flush mounting appliance inlets



EUREKA Series

EUREKA is a range of 16 and 32A flush mounting industrial inlets with 90° angled cable outlet. The design of the inlet has the advantage of a reduced protrusion, thus preventing any damage due to accidental contacts.

The efficiency of the contacts over time is guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging, while the IP degree stability is ensured by the co-molded gasket.

technical sheet p. 730

■ APPLIANCE INLETS - IP44



IP: IP44
Flange: 70X87MM

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	2	>300-500	>50		242.16932	10/100	242.32932	10/60
	3	DC	>50-250		242.16934	10/100	242.32934	10/60
	4	50 60	100-130		242.16990	10/100	242.32990	10/60
	6	50 60	200-250		242.16993	10/100	242.32993	10/60
	7	50 60	480-500		242.16936	10/100	242.32936	10/60
	8	DC	>250		242.16938	10/100	242.32938	10/60
	9	50 60	380-415		242.16998	10/100	242.32998	10/60
	12	50 60	TST>50		242.16933	10/100	242.32933	10/60
	3P+E	2	>300-500	>50		242.16962	10/100	242.32962
3		50 60	380 50Hz / 440 60Hz		242.16964	10/100	242.32964	10/60
4		50 60	100-130		242.16991	10/100	242.32991	10/60
5		50 60	600-690		242.16967	10/100	242.32967	10/60
6		50 60	380-415		242.16996	10/100	242.32996	10/60
7		50 60	480-500		242.16966	10/100	242.32966	10/60
9		50 60	200-250		242.16994	10/100	242.32994	10/60
10		100-300	>50		242.16961	10/100	242.32961	10/60
3P+N+E	11	60	440-460		242.16965	10/100	242.32965	10/60
	2	>300-500	>50		242.16972	10/60	242.32972	10/40
	3	50 60	380 50Hz / 440 60Hz		242.16974	10/60	242.32974	10/40
	4	50 60	100-130		242.16992	10/60	242.32992	10/40
	5	50 60	600-690		242.16977	10/60	242.32977	10/40
	6	50 60	346-415		242.16997	10/60	242.32997	10/40
	7	50 60	480-500		242.16976	10/60	242.32976	10/40
	9	50 60	208-250		242.16995	10/60	242.32995	10/40
11	60	440-460		242.16975	10/60	242.32975	10/40	

■ APPLIANCE INLETS - IP66/IP67



IP: IP66/IP67
Flange: 70X87MM

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	2	>300-500	>50		247.16932	10/100	247.32932	10/40
	3	DC	>50-250		247.16934	10/100	247.32934	10/40
	4	50 60	100-130		247.1690	10/100	247.3290	10/40
	6	50 60	200-250		247.1693	10/100	247.3293	10/40
	7	50 60	480-500		247.16936	10/100	247.32936	10/40
	8	DC	>250		247.16938	10/100	247.32938	10/40
	9	50 60	380-415		247.1698	10/100	247.3298	10/40
	12	50 60	TST>50		247.16933	10/100	247.32933	10/40
3P+E	2	>300-500	>50		247.16962	10/60	247.32962	10/40
	3	50 60	380 50Hz / 440 60Hz		247.16964	10/60	247.32964	10/40
	4	50 60	100-130		247.1691	10/60	247.3291	10/40
	5	50 60	600-690		247.16967	10/60	247.32967	10/40
	6	50 60	380-415		247.1696	10/60	247.3296	10/40
	7	50 60	480-500		247.16966	10/60	247.32966	10/40
	9	50 60	200-250		247.1694	10/60	247.3294	10/40
	10	100-300	>50		247.16961	10/60	247.32961	10/40
3P+N+E	11	60	440-460		247.16965	10/60	247.32965	10/40
	2	>300-500	>50		247.16972	10/50	247.32972	10/40
	3	50 60	380 50Hz / 440 60Hz		247.16974	10/50	247.32974	10/40
	4	50 60	100-130		247.1692	10/50	247.3292	10/40
	5	50 60	600-690		247.16977	10/50	247.32977	10/40
	6	50 60	346-415		247.1697	10/50	247.3297	10/40
	7	50 60	480-500		247.16976	10/50	247.32976	10/40
	9	50 60	208-250		247.1695	10/50	247.3295	10/40
11	60	440-460		247.16975	10/50	247.32975	10/40	



1.1 INDUSTRIAL PLUGS AND SOCKETS

Surface mounting appliance inlets



SURFACE MOUNTING APPLIANCE INLETS

OPTIMA SERIES

p. 50

Surface mounting industrial appliance inlets



OPTIMA-REVERSE SERIES

p. 54

Surface mounting industrial appliance inlets with phase inverter




































Applications: Construction site

OPTIMA-TOP SERIES

p. 56

Surface mounting industrial appliance inlets with reversible base



				OPTIMA Series	OPTIMA-REVERSE Series	OPTIMA-TOP Series
						
				IP44/IP54	IP44/IP54	IP44/IP54
				SCREW WIRING	SCREW WIRING	SCREW WIRING
				Screw terminals	Screw terminals	
16A	2P+E	100-130V		4	240.1690	
		200-250V		6	240.1693	
		380-415V		9	240.1698	
	3P+E	100-130V		4	240.1691	
		380-415V		6	240.1696	240.1696RV
		200-250V		9	240.1694	
	3P+N+E	100-130V		4	240.1692	
		346-415V		6	240.1697	240.1697RV
		208-250V		9	240.1695	
					Screw terminals	Screw terminals
32A	2P+E	100-130V		4	240.3290	
		200-250V		6	240.3293	
		380-415V		9	240.3298	
	3P+E	100-130V		4	240.3291	
		380-415V		6	240.3296	240.3296RV
		200-250V		9	240.3294	
	3P+N+E	100-130V		4	240.3292	
		346-415V		6	240.3297	240.3297RV
		208-250V		9	240.3295	
63A	2P+E	200-250V		6		240.6393T
		380-415V		9		240.6398T
	3P+E	380-415V		6		240.6396T
		200-250V		9		240.6394T
	3P+N+E	346-415V		6		240.6397T
		208-250V		9		240.6395T
125A	2P+E	200-250V		6		
		380-415V		9		
	3P+E	380-415V		6		
		200-250V		9		
	3P+N+E	346-415V		6		
		208-250V		9		

OPTIMA Series	OPTIMA-REVERSE Series	OPTIMA-TOP Series
	¹ REVERSE	
IP66/IP67/IP69	IP66/IP67/IP69	IP66/IP67/IP69
SCREW WIRING	SCREW WIRING	
Screw terminals	Screw terminals	
245.1690		
245.1693		
245.1698		
245.1691		
245.1696	245.1696RV	
245.1694		
245.1692		
245.1697	245.1697RV	
245.1695		
Screw terminals	Screw terminals	
245.3290		
245.3293		
245.3298		
245.3291		
245.3296	245.3296RV	
245.3294		
245.3292		
245.3297	245.3297RV	
245.3295		
		Mantle terminals
		245.6393T
		245.6398T
		245.6396T
		245.6394T
		245.6397T
		245.6395T
		245.12593T
		245.12598T
		245.12596T
		245.12594T
		245.12597T
		245.12595T

Terminals



Optimal connections for high currents

Operating principle of the phase inverter



¹ Phase inversion is obtained simply by pushing and turning with a screwdriver the support where the two phase pins are mounted.

1.1 INDUSTRIAL PLUGS AND SOCKETS

Surface mounting appliance inlets



OPTIMA Series

OPTIMA is a range of surface mounting industrial inlets 16 and 32A.

Robust and safe industrial inlets thanks to the use of high performance halogen-free technopolymer enclosures.

Practical thanks to the use of screw terminals and the metric threaded entry on the upper side.

The efficiency of the contacts over time is also guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging. The unlosable co-molded gasket guarantees a constant seal of the IP protection degree.

 technical sheet p. 734

Technical information

Main characteristics



- 01** Unlosable co-moulded gasket
- 02** Ultra smooth anti-corrosion nickel-plated brass pins
- 03** Snap-on device with stainless steel spring to speed up disassembly operations and cabling checking, in applications with continuous vibrations and mechanical stresses
- 04** Screw terminals
- 05** Body in halogen-free materials, with high mechanical and UV rays resistance
- 06** Slotted external fixing points
- 07** Threaded cable entry with cap

Applications examples



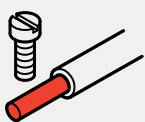
Industry



Building construction site



Terminals



screw terminals



INDUSTRIAL PLUGS AND SOCKETS

Surface mounting appliance inlets

■ SURFACE MOUNTING APPLIANCE INLETS - IP44/IP54 >> SCREW TERMINALS - ANGLED BOX



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	16A	📦	32A	📦
2P+E	4	50 60	100-130	Yellow	240.1690	10	240.3290	10
	6	50 60	200-250	Blue	240.1693	10	240.3293	10
	9	50 60	380-415	Red	240.1698	10	240.3298	10
3P+E	3	50 60	380 50Hz / 440 60Hz	Red	240.16964	10	240.32964	10
	4	50 60	100-130	Yellow	240.1691	10	240.3291	10
	6	50 60	380-415	Red	240.1696	10	240.3296	10
	9	50 60	200-250	Blue	240.1694	10	240.3294	10
	11	60	440-460	Red	240.16965	10	240.32965	10
3P+N+E	3	50 60	380 50Hz / 440 60Hz	Red	240.16974	10	240.32974	10
	4	50 60	100-130	Yellow	240.1692	10	240.3292	10
	6	50 60	346-415	Red	240.1697	10	240.3297	10
	9	50 60	208-250	Blue	240.1695	10	240.3295	10
	11	60	440-460	Red	240.16975	10	240.32975	10

Open threaded cable entry.
Rubber threaded cable sleeve included.

■ SURFACE MOUNTING APPLIANCE INLETS - IP44/IP54 >> SCREW TERMINALS - ANGLED BOX - CAMPING



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	16A	📦	32A	📦
2P+E	4	50 60	100-130	Yellow	240.1690-C	10	240.3290-C	10
	6	50 60	200-250	Blue	240.1693-C	10	240.3293-C	10
3P+E	6	50 60	380-415	Red	240.1696-C	10	240.3296-C	10
3P+N+E	6	50 60	346-415	Red	240.1697-C	10	240.3297-C	10

Open threaded cable entry.
Rubber threaded cable sleeve included.

Applications examples



Camping

■ SURFACE MOUNTING APPLIANCE INLETS - IP66/IP67/IP69 >> SCREW TERMINALS - ANGLED BOX



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A	10	32A	10	
2P+E	2	>300-500	>50	Green	245.16932	10	245.32932	10	
	3	DC	>50-250	Grey	245.16934	10	245.32934	10	
	4	50 60	100-130	Yellow	245.1690	10	245.3290	10	
	6	50 60	200-250	Blue	245.1693	10	245.3293	10	
	7	50 60	480-500	Black	245.16936	10	245.32936	10	
	8	DC	>250	Grey	245.16938	10	245.32938	10	
	9	50 60	380-415	Red	245.1698	10	245.3298		
	10	100-300	>50	Green	245.16931		245.32931		
	12	50 60	TST>50	Grey	245.16933	10	245.32933	10	
	3P+E	2	>300-500	>50	Green	245.16962	10	245.32962	10
		3	50 60	380 50Hz / 440 60Hz	Red	245.16964	10	245.32964	10
		4	50 60	100-130	Yellow	245.1691	10	245.3291	10
5		50 60	600-690	Black	245.16967	10	245.32967	10	
6		50 60	380-415	Red	245.1696	10	245.3296	10	
7		50 60	480-500	Black	245.16966	10	245.32966	10	
9		50 60	200-250	Blue	245.1694	10	245.3294	10	
10		100-300	>50	Green	245.16961	10	245.32961	10	
11		60	440-460	Red	245.16965	10	245.32965	10	
3P+N+E		2	>300-500	>50	Green	245.16972	10	245.32972	10
		3	50 60	380 50Hz / 440 60Hz	Red	245.16974	10	245.32974	10
	4	50 60	100-130	Yellow	245.1692	10	245.3292	10	
	5	50 60	600-690	Black	245.16977	10	245.32977	10	
	6	50 60	346-415	Red	245.1697	10	245.3297	10	
	7	50 60	480-500	Black	245.16976	10	245.32976	10	
	9	50 60	208-250	Blue	245.1695	10	245.3295	10	
	10	100-300	>50	Green	245.16971		245.32971		
11	60	440-460	Red	245.16975	10	245.32975	10		

Open threaded cable entry.
Cable gland included.
Threaded break-through knock out.



1.1 INDUSTRIAL PLUGS AND SOCKETS

Surface mounting appliance inlets




OPTIMA-REVERSE Series

Optima Reverse is a range of surface mounting industrial inlets 16 and 32A that allow the rapid inversion of two phases to restore the correct direction of rotation for three-phase motors of mobile and fixed users, simply by pushing and turning with a screwdriver the support where the two phase pins are mounted.

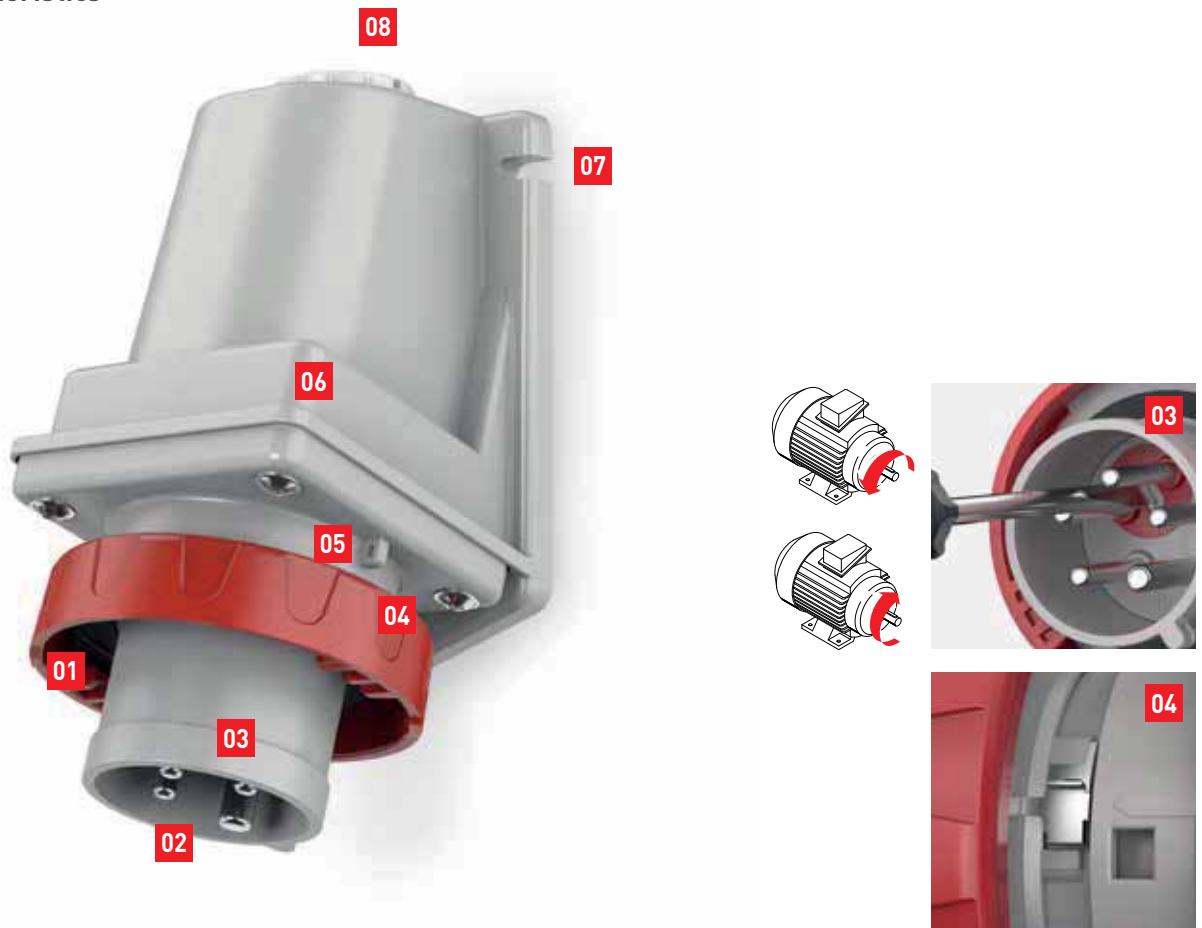
Practical thanks to the use of screw terminals and the metric threaded entry on the upper side.

The efficiency of the contacts over time is guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging, while the IP degree stability is ensured by the co-molded gasket.

 technical sheet p. 742

Technical information

Main characteristics



- 01** Unlosable co-moulded gasket
- 02** Ultra smooth anti-corrosion nickel-plated brass pins
- 03** Phase inverter. Phase inversion is obtained simply by pushing and turning with a screwdriver the support where the two phase pins are mounted
- 04** Snap-on device with stainless steel spring to speed up cabling disassembly and verification operations, in applications with

continuous vibrations and mechanical stresses.

- 05** Screw terminals
- 06** Body in halogen-free materials, with high mechanical and UV rays resistance
- 07** Slotted external fixing points
- 08** Threaded cable entry with cap

Applications examples



Building construction site

■ FLUSH MOUNTING APPLIANCE INLETS WITH PHASE INVERTER - IP44/IP54



Poles	h	Hz	Volt	Colour	16A		32A	
3P+E	6	50 60	380-415		240.1696RV	10	240.3296RV	10
3P+N+E	6	50 60	346-415		240.1697RV	10	240.3297RV	10

Open threaded cable entry.
Rubber threaded cable sleeve included.



IP: IP44/IP54

■ FLUSH MOUNTING APPLIANCE INLETS WITH PHASE INVERTER - IP66/IP67/IP69



Poles	h	Hz	Volt	Colour	16A		32A	
3P+E	6	50 60	380-415		245.1696RV	10	245.3296RV	10
3P+N+E	6	50 60	346-415		245.1697RV	10	245.3297RV	10

Open threaded cable entry.
Cable gland included.
Threaded break-through knock out.



IP: IP66/IP67/IP69

Terminals



screw terminals



1.1 INDUSTRIAL PLUGS AND SOCKETS

Surface mounting appliance inlets



OPTIMA-TOP Series

OPTIMA-TOP is a range surface mounting industrial inlets 63 and 125A.

Robust and safe industrial inlets thanks to the use of high performance halogen-free technopolymer enclosures.

Practical thanks to the use of mantle terminals, to the reversible base with threaded metric entries on the upper and lower side and to the removable device to ease wiring operations.

The efficiency of the contacts over time is guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging, while the IP degree stability is ensured by the co-molded gasket.

 technical sheet p. 736

Technical information

Main characteristics



- 01** Unlosable co-moulded gasket
- 02** Ultra smooth anti-corrosion nickel-plated brass pins
- 03** Mantle terminals
- 04** Removable socket outlet
- 05** Blank side with drilling point marks
- 06** Body in halogen-free materials, with high mechanical and UV rays resistance
- 07** Reversible base
- 08** External fixing points
- 09** Open threaded cable entry.
- 10** Cap and cable gland supplied

Applications examples

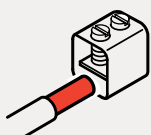


Industry



Industry

Terminals



mantle terminals































Optimal connections for high currents



■ SURFACE MOUNTING APPLIANCE INLETS - IP44/IP54



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	63A		
2P+E	2	>300-500	>50		240.63932T	4	
	3	DC	>50-250		240.63934T	4	
	4	50 60	100-130		240.6390T	4	
	6	50 60	200-250		240.6393T	4	
	7	50 60	480-500		240.63936T	4	
	8	DC	>250		240.63938T	4	
	9	50 60	380-415		240.6398T	4	
	10	100-300	>50		240.63931T		
	12	50 60	TST>50		240.63933T	4	
	3P+E	2	>300-500	>50		240.63962T	4
		3	50 60	380 50Hz / 440 60Hz		240.63964T	4
		4	50 60	100-130		240.6391T	4
5		50 60	600-690		240.63967T	4	
6		50 60	380-415		240.6396T	4	
7		50 60	480-500		240.63966T	4	
9		50 60	200-250		240.6394T	4	
10		100-300	>50		240.63961T	4	
11		60	440-460		240.63965T	4	
3P+N+E		2	>300-500	>50		240.63972T	4
		3	50 60	380 50Hz / 440 60Hz		240.63974T	4
	4	50 60	100-130		240.6392T	4	
	5	50 60	600-690		240.63977T	4	
	6	50 60	346-415		240.6397T	4	
	7	50 60	480-500		240.63976T	4	
	9	50 60	208-250		240.6395T	4	
	10	100-300	>50		240.63971T		
	11	60	440-460		240.63975T	4	

Open threaded cable entry.

Cable gland included.

Threaded break-through knock out.

Threaded cap/cable sleeve included.

■ SURFACE MOUNTING APPLIANCE INLETS - IP66/IP67



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	63A	📦	125A	📦	
2P+E	2	>300-500	>50	🟢	245.63932T	4	245.125932T	1/4	
	3	DC	>50-250	🟠	245.63934T	4	245.125934T	1/4	
	4	50 60	100-130	🟡	245.6390T	4	245.12590T	1/4	
	6	50 60	200-250	🟦	245.6393T	4	245.12593T	1/4	
	7	50 60	480-500	⬛	245.63936T	4	245.125936T	1/4	
	8	DC	>250	🟠	245.63938T	4	245.125938T	1/4	
	9	50 60	380-415	🔴	245.6398T	4	245.12598T	1/4	
	10	100-300	>50	🟢	245.63931T		245.125931T		
	12	50 60	TST>50	🟠	245.63933T	4	245.125933T	1/4	
	3P+E	2	>300-500	>50	🟢	245.63962T	4	245.125962T	1/4
		3	50 60	380 50Hz / 440 60Hz	🔴	245.63964T	4	245.125964T	1/4
		4	50 60	100-130	🟡	245.6391T	4	245.12591T	1/4
5		50 60	600-690	⬛	245.63967T	4	245.125967T	1/4	
6		50 60	380-415	🔴	245.6396T	4	245.12596T	1/4	
7		50 60	480-500	⬛	245.63966T	4	245.125966T	1/4	
9		50 60	200-250	🟦	245.6394T	4	245.12594T	1/4	
10		100-300	>50	🟢	245.63961T	4	245.125961T	1/4	
11		60	440-460	🔴	245.63965T	4	245.125965T	1/4	
3P+N+E		2	>300-500	>50	🟢	245.63972T	4	245.125972T	1/4
		3	50 60	380 50Hz / 440 60Hz	🔴	245.63974T	4	245.125974T	1/4
	4	50 60	100-130	🟡	245.6392T	4	245.12592T	1/4	
	5	50 60	600-690	⬛	245.63977T	4	245.125977T	1/4	
	6	50 60	346-415	🔴	245.6397T	4	245.12597T	1/4	
	7	50 60	480-500	⬛	245.63976T	4	245.125976T	1/4	
	9	50 60	208-250	🟦	245.6395T	4	245.12595T	1/4	
	10	100-300	>50	🟢	245.63971T		245.125971T		
	11	60	440-460	🔴	245.63975T	4	245.125975T	1/4	

Open threaded cable entry.
Cable gland included.
Threaded cap/cable sleeve included.



1.1 INDUSTRIAL PLUGS AND SOCKETS

Connectors



CONNECTORS

OPTIMA SERIES

p. 64

Fast wiring industrial connectors with external cable clamp



OPTIMA-HD SERIES

p. 72

Fast wiring industrial connectors for heavy duty applications



Applications: Shipyard - Commercial Port Container Terminal
Heavy Industry Chemical Industry Quarry Mines

EUREKA SERIES

p. 74

Industrial connectors with 90° angled cable outlet



XENIA SERIES

p. 75

Industrial connectors with monobloc body



				OPTIMA Series	OPTIMA Series	EUREKA Series	XENIA Series		
				IP44/IP54		IP44/IP54	IP44	IP44/IP54	
				SCREW WIRING	FAST WIRING	SCREW WIRING	SCREW WIRING	SCREW WIRING	
Poles	Volt	Colour	h	Screw terminals	Perforating terminals	Screw terminals	Screw terminals	Screw terminals	
16A	2P+E	100-130V	Yellow	4	313.1640 ^[2]	313.1640P ^[2]	313.1640H	321.1640	314.1640
		200-250V	Blue	6	313.1643 ^[1] ^[2]	313.1643P ^[1] ^[2]	313.1643H ^[1]	321.1643	314.1643
		380-415V	Red	9	313.1648	313.1648P	313.1648H		
	3P+E	100-130V	Yellow	4	313.1641				
		380-415V	Red	6	313.1646 ^[1]	313.1646P ^[1]	313.1646H ^[1]	321.1646	314.1646
		200-250V	Blue	9	313.1644	313.1644P	313.1644H		
	3P+N+E	100-130V	Yellow	4	313.1642				
		346-415V	Red	6	313.1647 ^[1]	313.1647P ^[1]	313.1647H ^[1]	321.1647	314.1647
		208-250V	Blue	9	313.1645				
				Screw terminals	Spring terminals		Screw terminals	Screw terminals	
32A	2P+E	100-130V	Yellow	4	313.3240	313.3240F		321.3240	314.3240
		200-250V	Blue	6	313.3243 ^[1]	313.3243F ^[1]		321.3243	314.3243
		380-415V	Red	9	313.3248	313.3248F			
	3P+E	100-130V	Yellow	4	313.3241				
		380-415V	Red	6	313.3246 ^[1]	313.3246F ^[1]		321.3246	314.3246
		200-250V	Blue	9	313.3244	313.3244F			
	3P+N+E	100-130V	Yellow	4	313.3242				
		346-415V	Red	6	313.3247 ^[1]	313.3247F ^[1]		321.3247	314.3247
		208-250V	Blue	9	313.3245				
				Mantle terminals					
63A	2P+E	200-250V	Blue	6	313.6343 ^[1]				
		380-415V	Red	9	313.6348				
	3P+E	380-415V	Red	6	313.6346 ^[1]				
		200-250V	Blue	9	313.6344				
	3P+N+E	346-415V	Red	6	313.6347 ^[1]				
		208-250V	Blue	9	313.6345				
125A	2P+E	200-250V	Blue	6					
		380-415V	Red	9					
	3P+E	380-415V	Red	6					
		200-250V	Blue	9					
	3P+N+E	346-415V	Red	6					
		208-250V	Blue	9					

Special versions



^[1] Black colour - Add ".K" at the end of the catalogue number (ie. 313.1643.K).

^[2] Transparent handle - Add ".TR" at the end of the catalogue number (ie. 313.1643.TR).

OPTIMA Series		OPTIMA Series	OPTIMA-HD Series	EUREKA Series
IP66/IP67/IP69		IP66/IP67/IP69	IP66/IP67/IP69	IP66/IP67
SCREW WIRING	FAST WIRING	SCREW WIRING	SCREW WIRING	SCREW WIRING
Screw terminals	Perforating terminals	Screw terminals	Screw terminals	Screw terminals
318.1640 ²	318.1640P ²	318.1640H		326.1640
318.1643 ^{1 2}	318.1643P ^{1 2}	318.1643H ¹	318.1643.KX	326.1643
318.1648	318.1648P	318.1648H		
318.1641				
318.1646 ¹	318.1646P ¹	318.1646H ¹	318.1646.KX	326.1646
318.1644	318.1644P	318.1644H		
318.1642				
318.1647 ¹	318.1647P ¹	318.1647H ¹	318.1647.KX	326.1647
318.1645				
Screw terminals	Spring terminals		Screw terminals	Screw terminals
318.3240	318.3240F			326.3240
318.3243 ¹	318.3243F ¹		318.3243.KX	326.3243
318.3248	318.3248F			
318.3241				
318.3246	318.3246F ¹		318.3246.KX	326.3246
318.3244	318.3244F			
318.3242				
318.3247	318.3247F ¹		318.3247.KX	326.3247
318.3245				
Mantle terminals			Mantle terminals	
318.6343 ¹			318.6343.KX	
318.6348				
318.6346 ¹			318.6346.KX	
318.6344				
318.6347 ¹			318.6347.KX	
318.6345				
318.12543 ¹			318.12543.KX	
318.12548				
318.12546 ¹			318.12546.KX	
318.12544				
318.12547 ¹			318.12547.KX	
318.12545				

Terminals

³ The "SAFE-IN" safety device


The "SAFE-IN" safety device, assembled on specific versions of the 16A industrial sockets of the OPTIMA Series, works like the protection installed on household sockets: by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the sockets.

1.1 INDUSTRIAL PLUGS AND SOCKETS


Connectors



OPTIMA Series

OPTIMA is a complete range of industrial connectors from 16 up to 125A, robust and safe thanks to the use of high performance technopolymer halogen-free bodies and to the external cable gland with cable clamp function. Fast to wire thanks to the opening of the body by means of a snap-on steel spring mechanism, the OPTIMA series electrical connectors are available with multiple types of terminals to always guarantee the best connection according to the type of use and wiring requirements.

The SAFE-IN versions, equipped with protective shutters on the contact tubes, prevent harmful contact with live parts, adding further safety in case of installation in places with unqualified users.

 technical sheet p. 734

Technical information

Main characteristics



01 Clear indication of open or closed position

02 Unlosable co-moulded gasket

03 4 different types of terminals: screw (16A-32A), insulation perforating (16A), spring (16A-32A), mantle (63A-125A)

04 Snap-on device with stainless steel spring to speed up cabling operations

05 Body in halogen-free materials, with high mechanical and UV rays resistance

06 Tulip external cable clamp with cable gland function

Special versions



Black colour



Transparent handle

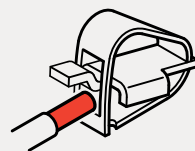


CONNECTORS
OPTIMA SERIES

Terminals

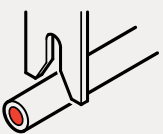


screw terminals



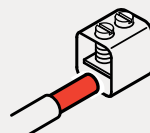
spring terminals

FAST WIRING - Anti vibrations



insulation perforating terminals

FAST WIRING



mantle terminals

Optimal connections for high currents



CONNECTORS - IP44/IP54 >> SCREW TERMINALS



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	16A	10/50	32A	10/40
2P+E	2	>300-500	>50	Green	313.16432	10/50	313.32432	10/40
	3	DC	>50-250	Grey	313.16434	10/50	313.32434	10/40
	4	50 60	100-130	Yellow	313.1640 ¹⁾	10/50	313.3240	10/40
	6	50 60	200-250	Blue	313.1643 ^{1) 2)}	10/50	313.3243 ²⁾	10/40
	7	50 60	480-500	Black	313.16436	10/50	313.32436	10/40
	8	DC	>250	Grey	313.16438	10/50	313.32438	10/40
	9	50 60	380-415	Red	313.1648	10/50	313.3248	10/40
	10	100-300	>50	Green	313.16431		313.32431	
	12	50 60	TST>50	Grey	313.16433	10/50	313.32433	10/40
	3P+E	2	>300-500	>50	Green	313.16462	10/50	313.32462
3		50 60	380 50Hz / 440 60Hz	Red	313.16464	10/50	313.32464	10/40
4		50 60	100-130	Yellow	313.1641	10/50	313.3241	10/40
5		50 60	600-690	Black	313.16467	10/50	313.32467	10/40
6		50 60	380-415	Red	313.1646 ²⁾	10/50	313.3246 ²⁾	10/40
7		50 60	480-500	Black	313.16466	10/50	313.32466	10/40
9		50 60	200-250	Blue	313.1644	10/50	313.3244	10/40
10		100-300	>50	Green	313.16461	10/50	313.32461	10/40
3P+N+E	11	60	440-460	Red	313.16465	10/50	313.32465	10/40
	2	>300-500	>50	Green	313.16472	10/50	313.32472	10/40
	3	50 60	380 50Hz / 440 60Hz	Red	313.16474	10/50	313.32474	10/40
	4	50 60	100-130	Yellow	313.1642	10/50	313.3242	10/40
	5	50 60	600-690	Black	313.16477	10/50	313.32477	10/40
	6	50 60	346-415	Red	313.1647 ²⁾	10/50	313.3247 ²⁾	10/40
	7	50 60	480-500	Black	313.16476	10/50	313.32476	10/40
	9	50 60	208-250	Blue	313.1645	10/50	313.3245	10/40
3P+N+E	10	100-300	>50	Green	313.16471	10/50	313.32471	
	11	60	440-460	Red	313.16475	10/50	313.32475	10/40

¹⁾Version also available with transparent handle; just add ".TR" at the end of the catalogue number.

²⁾Version also available in black; just add ".K" at the end of the catalogue number.

CONNECTORS - IP44/IP54 >> PERFORATING TERMINALS



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	16A	10/50
2P+E	4	50 60	100-130	Yellow	313.1640P ¹⁾	10/50
	6	50 60	200-250	Blue	313.1643P ^{1) 2)}	10/50
	9	50 60	380-415	Red	313.1648P	10/50
3P+E	6	50 60	380-415	Red	313.1646P ²⁾	10/50
	9	50 60	200-250	Blue	313.1644P	10/50
3P+N+E	6	50 60	346-415	Red	313.1647P ²⁾	10/50

¹⁾Version also available with transparent handle; just add ".TR" at the end of the catalogue number.

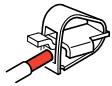
²⁾Version also available in black; just add ".K" at the end of the catalogue number.

CONNECTORS - IP44/IP54 >> SPRING TERMINALS



Poles	h	Hz	Volt	Colour	32A	
2P+E	4	50 60	100-130		313.3240F	10/40
	6	50 60	200-250		313.3243F ¹⁾	10/40
	9	50 60	380-415		313.3248F	10/40
3P+E	6	50 60	380-415		313.3246F ¹⁾	10/40
	9	50 60	200-250		313.3244F	10/40
3P+N+E	6	50 60	346-415		313.3247F ¹⁾	10/40

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP44/IP54



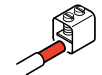
CONNECTORS
OPTIMA SERIES

CONNECTORS - IP44/IP54 >> MANTLE TERMINALS



Poles	h	Hz	Volt	Colour	63A		
2P+E	2	>300-500	>50		313.63432	6/24	
	3	DC	>50-250		313.63434	6/24	
	4	50 60	100-130		313.6340	6/24	
	6	50 60	200-250		313.6343 ¹⁾	6/24	
	7	50 60	480-500		313.63436	6/24	
	8	DC	>250		313.63438	6/24	
	9	50 60	380-415		313.6348	6/24	
	10	100-300	>50		313.63431		
	12	50 60	TST>50		313.63433	6/24	
	3P+E	2	>300-500	>50		313.63462	24
		3	50 60	380 50Hz / 440 60Hz		313.63464	6/24
		4	50 60	100-130		313.6341	6/24
5		50 60	600-690		313.63467	6/24	
6		50 60	380-415		313.6346 ¹⁾	6/24	
7		50 60	480-500		313.63466	6/24	
9		50 60	200-250		313.6344	6/24	
10		100-300	>50		313.63461	6/24	
11		60	440-460		313.63465	6/24	
3P+N+E		2	>300-500	>50		313.63472	6/24
		3	50 60	380 50Hz / 440 60Hz		313.63474	6/24
	4	50 60	100-130		313.6342	6/24	
	5	50 60	600-690		313.63477	6/24	
	6	50 60	346-415		313.6347 ¹⁾	6/24	
	7	50 60	480-500		313.63476	6/24	
	9	50 60	208-250		313.6345	6/24	
	10	100-300	>50		313.63471		
	11	60	440-460		313.63475	6/24	

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP44/IP54

Connectors

CONNECTORS - IP66/IP67/IP69 >> SCREW TERMINALS



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A		32A		
2P+E	2	>300-500	>50	Green	318.16432	10/40	318.32432	10/40	
	3	DC	>50-250	Grey	318.16434	10/40	318.32434	10/40	
	4	50 60	100-130	Yellow	318.1640 ¹⁾	10/40	318.3240	10/40	
	6	50 60	200-250	Blue	318.1643 ^{1) 2)}	10/40	318.3243 ²⁾	10/40	
	7	50 60	480-500	Black	318.16436	10/40	318.32436	10/40	
	8	DC	>250	Grey	318.16438	10/40	318.32438	10/40	
	9	50 60	380-415	Red	318.1648	10/40	318.3248	10/40	
	10	100-300	>50	Green	318.16431		318.32431		
	12	50 60	TST>50	Grey	318.16433	10/40	318.32433	10/40	
	3P+E	2	>300-500	>50	Green	318.16462	10/40	318.32462	10/40
		3	50 60	380 50Hz / 440 60Hz	Red	318.16464	10/40	318.32464	10/40
		4	50 60	100-130	Yellow	318.1641	10/40	318.3241	10/40
5		50 60	600-690	Black	318.16467	10/40	318.32467	10/40	
6		50 60	380-415	Red	318.1646 ²⁾	10/40	318.3246	10/40	
7		50 60	480-500	Black	318.16466	10/40	318.32466	10/40	
9		50 60	200-250	Blue	318.1644	10/40	318.3244	10/40	
10		100-300	>50	Green	318.16461	10/40	318.32461	10/40	
11		60	440-460	Red	318.16465	10/40	318.32465	10/40	
12		50 60	TST>50	Grey	318.16463	10/40			
3P+N+E		2	>300-500	>50	Green	318.16472	10/40	318.32472	10/40
		3	50 60	380 50Hz / 440 60Hz	Red	318.16474	10/40	318.32474	10/40
	4	50 60	100-130	Yellow	318.1642	10/40	318.3242	10/40	
	5	50 60	600-690	Black	318.16477	10/40	318.32477	10/40	
	6	50 60	346-415	Red	318.1647 ²⁾	10/40	318.3247	10/40	
	7	50 60	480-500	Black	318.16476	10/40	318.32476	10/40	
	9	50 60	208-250	Blue	318.1645	10/40	318.3245	10/40	
	10	100-300	>50	Green	318.16471		318.32471		
	11	60	440-460	Red	318.16475	10/40	318.32475	10/40	

¹⁾Version also available with transparent handle; just add ".TR" at the end of the catalogue number.

²⁾Version also available in black; just add ".K" at the end of the catalogue number.

CONNECTORS - IP66/IP67/IP69 >> PERFORATING TERMINALS



Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130	Yellow	318.1640P ¹⁾	10/40
	6	50 60	200-250	Blue	318.1643P ^{1) 2)}	10/40
	9	50 60	380-415	Red	318.1648P	10/40
3P+E	6	50 60	380-415	Red	318.1646P ²⁾	10/40
	9	50 60	200-250	Blue	318.1644P	10/40
3P+N+E	6	50 60	346-415	Red	318.1647P ²⁾	10/40

¹⁾Version also available with transparent handle; just add ".TR" at the end of the catalogue number.

²⁾Version also available in black; just add ".K" at the end of the catalogue number.



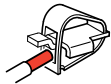
IP: IP66/IP67/IP69

CONNECTORS - IP66/IP67/IP69 >> SPRING TERMINALS



Poles	h	Hz	Volt	Colour	32A	
2P+E	4	50 60	100-130		318.3240F	10/40
	6	50 60	200-250		318.3243F ¹⁾	10/40
	9	50 60	380-415		318.3248F	10/40
3P+E	3	50 60	380 50Hz / 440 60Hz		318.32464F	10/40
	6	50 60	380-415		318.3246F ¹⁾	10/40
	9	50 60	200-250		318.3244F	10/40
3P+N+E	6	50 60	346-415		318.3247F ¹⁾	10/40

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP66/IP67/IP69



CONNECTORS
OPTIMA SERIES

CONNECTORS - IP66/IP67/IP69 >> MANTLE TERMINALS



Poles	h	Hz	Volt	Colour	63A		125A		
2P+E	2	>300-500	>50		318.63432	6/24	318.125432	1/8	
	3	DC	>50-250		318.63434	6/24	318.125434	1/8	
	4	50 60	100-130		318.6340	6/24	318.12540	1/8	
	6	50 60	200-250		318.6343 ¹⁾	6/24	318.12543 ¹⁾	1/8	
	7	50 60	480-500		318.63436	6/24	318.125436	1/8	
	8	DC	>250		318.63438	6/24	318.125438	1/8	
	9	50 60	380-415		318.6348	6/24	318.12548	1/8	
	10	100-300	>50		318.63431		318.125431		
	12	50 60	TST>50		318.63433	6/24	318.125433	1/8	
	3P+E	2	>300-500	>50		318.63462	6/24	318.125462	1/8
		3	50 60	380 50Hz / 440 60Hz		318.63464	6/24	318.125464	1/8
		4	50 60	100-130		318.6341	6/24	318.12541	1/8
5		50 60	600-690		318.63467	6/24	318.125467	1/8	
6		50 60	380-415		318.6346 ¹⁾	6/24	318.12546 ¹⁾	1/8	
7		50 60	480-500		318.63466	6/24	318.125466	1/8	
9		50 60	200-250		318.6344	6/24	318.12544	1/8	
10		100-300	>50		318.63461	6/24	318.125461	1/8	
11		60	440-460		318.63465	6/24	318.125465	1/8	
3P+N+E		2	>300-500	>50		318.63472	6/24	318.125472	1/8
		3	50 60	380 50Hz / 440 60Hz		318.63474	6/24	318.125474	1/8
		4	50 60	100-130		318.6342	6/24	318.12542	1/8
	5	50 60	600-690		318.63477	6/24	318.125477	1/8	
	6	50 60	346-415		318.6347 ¹⁾	6/24	318.12547 ¹⁾	1/8	
	7	50 60	480-500		318.63476	6/24	318.125476	1/8	
	9	50 60	208-250		318.6345	6/24	318.12545	1/8	
	10	100-300	>50		318.63471		318.125471		
	11	60	440-460		318.63475	6/24	318.125475	1/8	

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP66/IP67/IP69

■ CONNECTORS - IP44/IP54 - SAFE-IN



Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130		313.1640H	10/50
	6	50 60	200-250		313.1643H ¹⁾	10/50
	9	50 60	380-415		313.1648H	10/50
3P+E	6	50 60	380-415		313.1646H ¹⁾	10/50
	9	50 60	200-250		313.1644H	10/50
3P+N+E	6	50 60	346-415		313.1647H ¹⁾	10/50

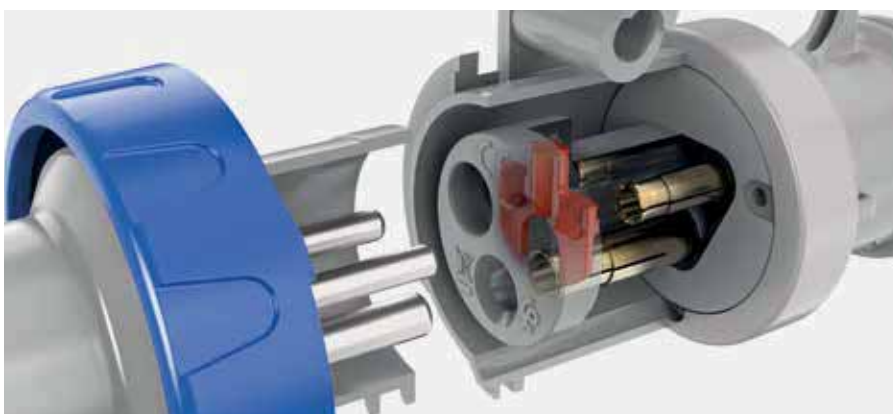
Sockets with "SAFE-IN" safety device.

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP44/IP54

The "SAFE-IN" safety device



The "SAFE-IN" safety device, assembled on specific versions of the 16A industrial sockets of the OPTIMA Series, works like the protection installed on household sockets: by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the sockets.

■ CONNECTORS - IP66/IP67/IP69 - SAFE-IN



Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130		318.1640H	10/40
	6	50 60	200-250		318.1643H ¹⁾	10/40
	9	50 60	380-415		318.1648H	10/40
3P+E	6	50 60	380-415		318.1646H ¹⁾	10/40
	9	50 60	200-250		318.1644H	10/40
3P+N+E	6	50 60	346-415		318.1647H ¹⁾	10/40

Sockets with "SAFE-IN" safety device.

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP66/IP67/IP69

CONNECTORS
OPTIMA SERIES

Applications examples



Amusement park



OPTIMA-HD Series

OPTIMA-HD is a range of industrial connectors from 16 to 125A characterized by the use of specific technopolymers that give maximum resistance to impact (IK10), to heat and fire (GW960°C according to EN 60695-2-1), to atmospheric agents and UV rays

The OPTIMA-HD electrical connectors are therefore suitable for use in harsh environments such as iron and steel industries, ports and mines.

Fast to wire thanks to the opening of the body by means of a snap-on steel spring mechanism and screw clamps.

technical sheet p. 744

Technical information

Main characteristics



- 01** Clear indication of open or closed position
- 02** Unlosable co-moulded gasket
- 03** 2 different types of terminals: screw (16A-32A) or mantle (63A-125A)
- 04** Snap-on device with stainless steel spring to speed up cabling operations
- 05** Body in technopolymers with very high resistance to impact (IK10), to heat and fire (GW 960°C), to atmospheric agents and UV rays
- 06** Tulip external cable clamp with cable gland function

Applications examples



Shipyards - Container terminal



Heavy industry



Mining industry

CONNECTORS - IP66/IP67/IP69 - HEAVY DUTY



Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	6	50 60	200-250		318.1643.KX	10/40	318.3243.KX	10/40
3P+E	3	50 60	380 50Hz / 440 60Hz				318.3246.KX	10/40
	6	50 60	380-415		318.1646.KX	10/40	318.3246.KX	10/40
3P+N+E	6	50 60	346-415		318.1647.KX	10/40	318.3247.KX	10/40

High impact resistance.
High heat and fire resistance.



IP: IP66/IP67/IP69



Poles	h	Hz	Volt	Colour	63A		125A	
2P+E	6	50 60	200-250		318.6343.KX	6/24	318.12543.KX	1/8
3P+E	6	50 60	380-415		318.6346.KX	6/24	318.12546.KX	1/8
3P+N+E	6	50 60	346-415		318.6347.KX	6/24	318.12547.KX	1/8

High impact resistance.
High heat and fire resistance.

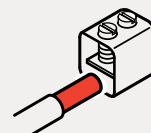


IP: IP66/IP67/IP69

Terminals



screw terminals



mantle terminals



Optimal connections for high currents

1.1 INDUSTRIAL PLUGS AND SOCKETS

Connectors



EUREKA Series

EUREKA Series is a range of industrial connectors 16 and 32 A with 90° angled cable outlet. The connector design has the advantage of a reduced obstruction, thus preventing eventual damages by accidental contacts.

Both terminals and internal cable clamp are screw type.

technical sheet p. 730

CONNECTORS - IP44 >> SCREW TERMINALS - ANGLED OUTLET



Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	4	50 60	100-130		321.1640	10/100	321.3240	10/50
	6	50 60	200-250		321.1643	10/100	321.3243	10/50
3P+E	6	50 60	380-415		321.1646	10/100	321.3246	10/50
3P+N+E	6	50 60	346-415		321.1647	10/100	321.3247	10/50



IP: IP44

CONNECTORS - IP66/IP67 >> SCREW TERMINALS - ANGLED OUTLET



Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	4	50 60	100-130		326.1640	10/100	326.3240	10/40
	6	50 60	200-250		326.1643	10/100	326.3243	10/40
3P+E	6	50 60	380-415		326.1646	10/100	326.3246	10/40
3P+N+E	6	50 60	346-415		326.1647	10/50	326.3247	10/40



IP: IP66/IP67



XENIA Series

XENIA is a range of industrial connectors with monoblock body in technopolymer . The electrical connectors of the XENIA series have screw terminals and external cable clamps.

technical sheet p. 748

CONNECTORS - IP44/IP54



Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	4	50 60	100-130		314.1640	40	314.3240	20
	6	50 60	200-250		314.1643	40	314.3243	20
3P+E	6	50 60	380-415		314.1646	30	314.3246	20
3P+N+E	6	50 60	346-415		314.1647	25	314.3247	15



IP: IP44/IP54

FLUSH MOUNTING SOCKET OUTLETS

OPTIMA SERIES

p. 80

Flush mounting industrial socket outlets





































EUREKA SERIES

p. 92

Flush mounting industrial socket outlets with 90° angled body



				OPTIMA Series	OPTIMA Series	OPTIMA Series	EUREKA Series		
									
				IP44/IP54		IP44/IP54	IP44		
				SCREW WIRING	FAST WIRING	SCREW WIRING	SCREW WIRING		
Poles	Volt	Colour	h	Screw terminals	Spring terminals	Screw terminals	Screw terminals		
16A	2P+E	100-130V		4	413.1660	413.1660F	413.1660H	423.1660	452.1660
		200-250V		6	413.1663 ¹	413.1663F ¹	413.1663H ¹	423.1663	452.1663
		380-415V		9	413.1668	413.1668F	413.1668H	423.1668	452.1668
	3P+E	100-130V		4	413.1661			423.1661	452.1661
		380-415V		6	413.1666 ¹	413.1666F ¹	413.1666H ¹	423.1666	452.1666
		200-250V		9	413.1664	413.1664F	413.1664H	423.1664	452.1664
	3P+N+E	100-130V		4	413.1662			423.1662	452.1662
		346-415V		6	413.1667 ¹	413.1667F ¹	413.1667H ¹	423.1667	452.1667
		208-250V		9	413.1665			423.1665	452.1665
				Screw terminals	Spring terminals		Screw terminals	Screw terminals	
32A	2P+E	100-130V		4	413.3260	413.3260F		423.3260	452.3260
		200-250V		6	413.3263 ¹	413.3263F ¹		423.3263	452.3263
		380-415V		9	413.3268	413.3268F		423.3268	452.3268
	3P+E	100-130V		4	413.3261			423.3261	452.3261
		380-415V		6	413.3266 ¹	413.3266F ¹		423.3266	452.3266
		200-250V		9	413.3264	413.3264F		423.3264	452.3264
	3P+N+E	100-130V		4	413.3262			423.3262	452.3262
		346-415V		6	413.3267 ¹	413.3267F ¹		423.3267	452.3267
		208-250V		9	413.3265			423.3265	452.3265
				Mantle terminals			Mantle terminals		
63A	2P+E	200-250V		6	413.6363 ¹			423.6363	
		380-415V		9	413.6368			423.6368	
	3P+E	380-415V		6	413.6366 ¹			423.6366	
		200-250V		9	413.6364			423.6364	
	3P+N+E	346-415V		6	413.6367 ¹			423.6367	
		208-250V		9	413.6365			423.6365	
125A	2P+E	200-250V		6					
		380-415V		9					
	3P+E	380-415V		6					
		200-250V		9					
	3P+N+E	346-415V		6					
		208-250V		9					

Special versions



¹ Black colour - Add ".K" at the end of the catalogue number [ie. 413.1663.K].

OPTIMA Series		OPTIMA Series	OPTIMA Series	EUREKA Series
IP66/IP67/IP69		IP66/IP67/IP69	IP66/IP67	IP66/IP67/IP69
SCREW WIRING	FAST WIRING	SCREW WIRING	SCREW WIRING	SCREW WIRING
Screw terminals	Spring terminals	Screw terminals	Screw terminals	Screw terminals
418.1660	418.1660F	418.1660H	428.1660	457.1660
418.1663 ¹	418.1663F ¹	418.1663H ¹	428.1663	457.1663
418.1668	418.1668F	418.1668H	428.1668	457.1668
418.1661			428.1661	457.1661
418.1666 ¹	418.1666F ¹	418.1666H ¹	428.1666	457.1666
418.1664	418.1664F	418.1664H	428.1664	457.1664
418.1662			428.1662	457.1662
418.1667 ¹	418.1667F ¹	418.1667H ¹	428.1667	457.1667
418.1665			428.1665	457.1665
Screw terminals	Spring terminals		Screw terminals	Screw terminals
418.3260	418.3260F		428.3260	457.3260
418.3263 ¹	418.3263F ¹		428.3263	457.3263
418.3268	418.3268F		428.3268	457.3268
418.3261			428.3261	457.3261
418.3266	418.3266F ¹		428.3266	457.3266
418.3264	418.3264F		428.3264	457.3264
418.3262			428.3262	457.3262
418.3267	418.3267F ¹		428.3267	457.3267
418.3265			428.3265	457.3265
Mantle terminals			Mantle terminals	
418.6363			428.6363 ¹	
418.6368			428.6368	
418.6366			428.6366 ¹	
418.6364			428.6364	
418.6367 ¹			428.6367 ¹	
418.6365			428.6365	
418.12563			428.12563 ¹	
418.12568			428.12568	
418.12566			428.12566 ¹	
418.12564			428.12564	
418.12567 ¹			428.12567 ¹	
418.12565			428.12565	

Terminals

² The "SAFE-IN" safety device


The "SAFE-IN" safety device, assembled on specific versions of the 16A industrial sockets of the OPTIMA Series, works like the protection installed on household sockets: by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the sockets.

1.1 INDUSTRIAL PLUGS AND SOCKETS

Flush mounting socket outlets



OPTIMA Series

OPTIMA is a complete range of flush mounting industrial socket outlets from 16 up to 125A, with straight or angled output.

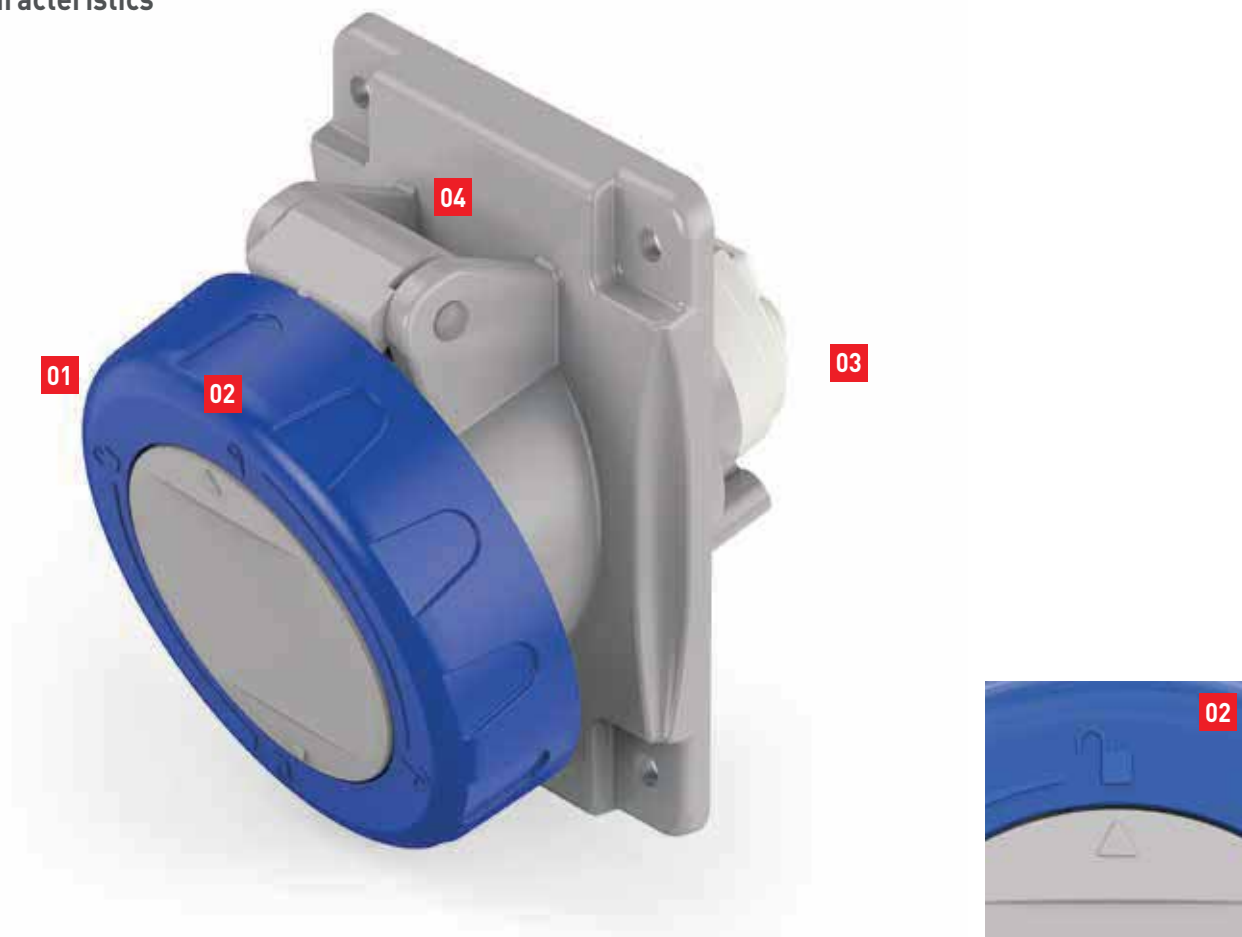
The electrical sockets of the OPTIMA series are available with multiple types of terminals to always guarantee the best connection according to the type of use and the wiring needs. The unlosable co-moulded gasket guarantees a constant seal of the IP protection degree.

The SAFE-IN versions are equipped with protective shutters on the contact tubes so to prevent harmful contact with live parts, adding further safety in case of installation in places with unqualified users.

 technical sheet p. 734

Technical information

Main characteristics



01 Unlosable co-moulded gasket

02 Clear indication of open or closed position

03 3 different types of terminals: screw (16A-32A), spring (16A-32A), mantle (63A-125A)

04 Body in halogen-free materials, with high mechanical and UV rays resistance

Special versions



Black colour



Compatibility



Surface mounting boxes

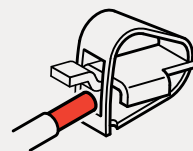


Distribution assemblies

Terminals

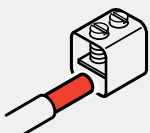


screw terminals



spring terminals

FAST WIRING - Anti vibrations



mantle terminals

Optimal connections for high currents



Flush mounting socket outlets

■ FLUSH MOUNTING SOCKET OUTLETS - IP44/IP54 >> SCREW TERMINALS - ANGLED OUTLET



IP: IP44/IP54
Flange: 70X87MM

Poles	h	Hz	Volt	Colour	16A	
2P+E	2	>300-500	>50		413.16632	10/100
	3	DC	>50-250		413.16634	10/100
	4	50 60	100-130		413.1660	10/100
	6	50 60	200-250		413.1663 ¹⁾	10/100
	7	50 60	480-500		413.16636	10/100
	8	DC	>250		413.16638	10/100
	9	50 60	380-415		413.1668	10/100
	10	100-300	>50		413.16631	10/100
	12	50 60	TST>50		413.16633	10/100
	3P+E	2	>300-500	>50		413.16662
3		50 60	380 50Hz / 440 60Hz		413.16664	10/100
4		50 60	100-130		413.1661	10/100
5		50 60	600-690		413.16667	10/100
6		50 60	380-415		413.1666 ¹⁾	10/100
7		50 60	480-500		413.16666	10/100
9		50 60	200-250		413.1664	10/100
10		100-300	>50		413.16661	10/100
11		60	440-460		413.16665	10/100
3P+N+E		2	>300-500	>50		413.16672
	3	50 60	380 50Hz / 440 60Hz		413.16674	10/100
	4	50 60	100-130		413.1662	10/100
	5	50 60	600-690		413.16677	10/100
	6	50 60	346-415		413.1667 ¹⁾	10/100
	7	50 60	480-500		413.16676	10/100
	9	50 60	208-250		413.1665	10/100
	10	100-300	>50		413.16671	10/100
	11	60	440-460		413.16675	10/100

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP44/IP54
Flange: 84X106MM

Poles	h	Hz	Volt	Colour	32A	
2P+E	2	>300-500	>50		413.32632	10/50
	3	DC	>50-250		413.32634	10/50
	4	50 60	100-130		413.3260	10/50
	6	50 60	200-250		413.3263 ¹⁾	10/50
	7	50 60	480-500		413.32636	10/50
	8	DC	>250		413.32638	10/50
	9	50 60	380-415		413.3268	10/50
	10	100-300	>50		413.32631	10/50
	12	50 60	TST>50		413.32633	10/50
	3P+E	2	>300-500	>50		413.32662
3		50 60	380 50Hz / 440 60Hz		413.32664	10/50
4		50 60	100-130		413.3261	10/50
5		50 60	600-690		413.32667	10/50
6		50 60	380-415		413.3266 ¹⁾	10/50
7		50 60	480-500		413.32666	10/50
9		50 60	200-250		413.3264	10/50
10		100-300	>50		413.32661	10/50
11		60	440-460		413.32665	10/50
3P+N+E		2	>300-500	>50		413.32672
	3	50 60	380 50Hz / 440 60Hz		413.32674	10/50
	4	50 60	100-130		413.3262	10/50
	5	50 60	600-690		413.32677	10/50
	6	50 60	346-415		413.3267 ¹⁾	10/50
	7	50 60	480-500		413.32676	10/50
	9	50 60	208-250		413.3265	10/50
	10	100-300	>50		413.32671	10/50
	11	60	440-460		413.32675	10/50

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ FLUSH MOUNTING SOCKET OUTLETS - IP44/IP54 >> MANTLE TERMINALS - ANGLED OUTLET



IP: IP44/IP54
Flange: 100X110MM

Poles	h	Hz	Volt	Colour	63A	
2P+E	2	>300-500	>50		413.63632	6/30
	3	DC	>50-250		413.63634	6/30
	4	50 60	100-130		413.63660	6/30
	6	50 60	200-250		413.6363 ¹⁾	6/30
	7	50 60	480-500		413.63636	6/30
	8	DC	>250		413.63638	6/30
	9	50 60	380-415		413.63668	6/30
	10	100-300	>50		413.63631	
	12	50 60	TST>50		413.63633	6/30
	3P+E	2	>300-500	>50		413.63662
3		50 60	380 50Hz / 440 60Hz		413.63664	6/30
4		50 60	100-130		413.63661	6/30
5		50 60	600-690		413.63667	6/30
6		50 60	380-415		413.6366 ¹⁾	6/30
7		50 60	480-500		413.63666	6/30
9		50 60	200-250		413.63664	6/30
10		100-300	>50		413.63661	6/30
11		60	440-460		413.63665	6/30
3P+N+E		2	>300-500	>50		413.63672
	3	50 60	380 50Hz / 440 60Hz		413.63674	30
	4	50 60	100-130		413.63662	6/30
	5	50 60	600-690		413.63677	6/30
	6	50 60	346-415		413.6367 ¹⁾	6/30
	7	50 60	480-500		413.63676	6/30
	9	50 60	208-250		413.63665	6/30
	10	100-300	>50		413.63671	
	11	60	440-460		413.63675	6/30

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



Flush mounting socket outlets

■ FLUSH MOUNTING SOCKET OUTLETS - IP66/IP67/IP69 >> SCREW TERMINALS - ANGLED OUTLET



IP: IP66/IP67/IP69
Flange: 70X87MM

Poles	h	Hz	Volt	Colour	16A		
2P+E	2	>300-500	>50	Green	418.16632	10/100	
	3	DC	>50-250	Grey	418.16634	10/100	
	4	50 60	100-130	Yellow	418.16660	10/100	
	6	50 60	200-250	Blue	418.1663 ¹⁾	10/100	
	7	50 60	480-500	Black	418.16636	10/100	
	8	DC	>250	Grey	418.16638	10/100	
	9	50 60	380-415	Red	418.16668	10/100	
	10	100-300	>50	Green	418.16631		
	12	50 60	TST>50	Grey	418.16633	10/100	
	3P+E	2	>300-500	>50	Green	418.16662	10/100
		3	50 60	380 50Hz / 440 60Hz	Red	418.16664	10/100
		4	50 60	100-130	Yellow	418.16661	10/100
5		50 60	600-690	Black	418.16667	10/100	
6		50 60	380-415	Red	418.1666 ¹⁾	10/100	
7		50 60	480-500	Black	418.16666	10/100	
9		50 60	200-250	Blue	418.16664	10/100	
10		100-300	>50	Green	418.16661	10/100	
11		60	440-460	Red	418.16665	10/100	
3P+N+E		2	>300-500	>50	Green	418.16672	10/100
		3	50 60	380 50Hz / 440 60Hz	Red	418.16674	10/100
	4	50 60	100-130	Yellow	418.16662	10/100	
	5	50 60	600-690	Black	418.16677	10/100	
	6	50 60	346-415	Red	418.1667 ¹⁾	10/100	
	7	50 60	480-500	Black	418.16676	10/100	
	9	50 60	208-250	Blue	418.16665	10/100	
	10	100-300	>50	Green	418.16671		
	11	60	440-460	Red	418.16675	10/100	

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP66/IP67/IP69
Flange: 84X106MM

Poles	h	Hz	Volt	Colour	32A		
2P+E	2	>300-500	>50	Green	418.32632	10/50	
	3	DC	>50-250	Grey	418.32634	10/50	
	4	50 60	100-130	Yellow	418.32660	10/50	
	6	50 60	200-250	Blue	418.3263 ¹⁾	10/50	
	7	50 60	480-500	Black	418.32636	10/50	
	8	DC	>250	Grey	418.32638	10/50	
	9	50 60	380-415	Red	418.32668	10/50	
	10	100-300	>50	Green	418.32631		
	12	50 60	TST>50	Grey	418.32633	10/50	
	3P+E	2	>300-500	>50	Green	418.32662	10/50
		3	50 60	380 50Hz / 440 60Hz	Red	418.32664	10/50
		4	50 60	100-130	Yellow	418.32661	10/50
5		50 60	600-690	Black	418.32667	10/50	
6		50 60	380-415	Red	418.3266 ¹⁾	10/50	
7		50 60	480-500	Black	418.32666	10/50	
9		50 60	200-250	Blue	418.32664	10/50	
10		100-300	>50	Green	418.32661	10/50	
11		60	440-460	Red	418.32665	10/50	
3P+N+E		2	>300-500	>50	Green	418.32672	10/50
		3	50 60	380 50Hz / 440 60Hz	Red	418.32674	10/50
	5	50 60	600-690	Black	418.32677	10/50	
	6	50 60	346-415	Red	418.3267 ¹⁾	10/50	
	7	50 60	480-500	Black	418.32676	10/50	
	9	50 60	208-250	Blue	418.32665	10/50	
	10	100-300	>50	Green	418.32671		
	11	60	440-460	Red	418.32675	10/50	

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ FLUSH MOUNTING SOCKET OUTLETS - IP66/IP67/IP69 >> MANTLE TERMINALS - ANGLED OUTLET



IP: IP66/IP67/IP69
Flange: 100X110MM

Poles	h	Hz	Volt	Colour	63A	
2P+E	2	>300-500	>50		418.63632	30
	3	DC	>50-250		418.63634	30
	4	50 60	100-130		418.6360	30
	6	50 60	200-250		418.6363 ¹⁾	6/30
	7	50 60	480-500		418.63636	30
	8	DC	>250		418.63638	30
	9	50 60	380-415		418.6368	30
	10	100-300	>50		418.63631	
	12	50 60	TST>50		418.63633	30
	3P+E	2	>300-500	>50		418.63662
3		50 60	380 50Hz / 440 60Hz		418.63664	30
4		50 60	100-130		418.6361	6/30
5		50 60	600-690		418.63667	30
6		50 60	380-415		418.6366 ¹⁾	6/30
7		50 60	480-500		418.63666	30
9		50 60	200-250		418.6364	6/30
10		100-300	>50		418.63661	30
11		60	440-460		418.63665	30
3P+N+E		2	>300-500	>50		418.63672
	3	50 60	380 50Hz / 440 60Hz		418.63674	30
	4	50 60	100-130		418.6362	30
	5	50 60	600-690		418.63677	30
	6	50 60	346-415		418.6367 ¹⁾	6/30
	7	50 60	480-500		418.63676	30
	9	50 60	208-250		418.6365	30
	10	100-300	>50		418.63671	
	11	60	440-460		418.63675	6/30

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP66/IP67/IP69
Flange: 114X114MM

Poles	h	Hz	Volt	Colour	125A	
2P+E	2	>300-500	>50		418.125632	10
	3	DC	>50-250		418.125634	10
	4	50 60	100-130		418.12560	10
	6	50 60	200-250		418.12563 ¹⁾	1/10
	7	50 60	480-500		418.125636	10
	8	DC	>250		418.125638	10
	9	50 60	380-415		418.12568	10
	10	100-300	>50		418.125631	
	12	50 60	TST>50		418.125633	10
	3P+E	2	>300-500	>50		418.125662
3		50 60	380 50Hz / 440 60Hz		418.125664	10
4		50 60	100-130		418.12561	1/10
5		50 60	600-690		418.125667	10
6		50 60	380-415		418.12566 ¹⁾	1/10
7		50 60	480-500		418.125666	10
9		50 60	200-250		418.12564	10
10		100-300	>50		418.125661	10
11		60	440-460		418.125665	10
3P+N+E		2	>300-500	>50		418.125672
	3	50 60	380 50Hz / 440 60Hz		418.125674	10
	4	50 60	100-130		418.12562	10
	5	50 60	600-690		418.125677	10
	6	50 60	346-415		418.12567 ¹⁾	1/10
	7	50 60	480-500		418.125676	10
	9	50 60	208-250		418.12565	10
	10	100-300	>50		418.125671	
	11	60	440-460		418.125675	1/10

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



Flush mounting socket outlets

■ FLUSH MOUNTING SOCKET OUTLETS - IP44/IP54 >> SCREW TERMINALS - STRAIGHT OUTLET 55X55MM



Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130		423.1660/RR	10/100
	6	50 60	200-250		423.1663/RR ¹⁾	10/100
	9	50 60	380-415		423.1668/RR	10/100

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP44/IP54
Flange: 55X55MM

■ FLUSH MOUNTING SOCKET OUTLETS - IP44/IP54 >> SCREW TERMINALS - STRAIGHT OUTLET 62X62MM



Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130		423.1660/R	10/100
	6	50 60	200-250		423.1663/R ¹⁾	10/100
	9	50 60	380-415		423.1668/R	10/100
3P+E	4	50 60	100-130		423.1661/R	10/100
	6	50 60	380-415		423.1666/R ¹⁾	10/100
	9	50 60	200-250		423.1664/R	10/100

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP44/IP54
Flange: 62X62MM

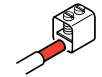
■ FLUSH MOUNTING SOCKET OUTLETS - IP44/IP54 >> SCREW TERMINALS - STRAIGHT OUTLET 75X75MM



Poles	h	Hz	Volt	Colour	16A		32A		
2P+E	2	>300-500	>50		423.16632	10/100	423.32632	10/50	
	3	DC	>50-250		423.16634	10/100	423.32634	10/50	
	4	50 60	100-130		423.1660	10/100	423.3260	10/50	
	6	50 60	200-250		423.1663 ¹⁾	10/100	423.3263 ¹⁾	10/50	
	7	50 60	480-500		423.16636	10/100	423.32636	10/50	
	8	DC	>250		423.16638	10/100	423.32638	10/50	
	9	50 60	380-415		423.1668	10/100	423.3268	10/50	
	10	100-300	>50		423.16631		423.32631		
	12	50 60	TST>50		423.16633	10/100	423.32633	10/50	
	2	>300-500	>50		423.16662	10/100	423.32662	10/50	
	3P+E	3	50 60	380 50Hz / 440 60Hz		423.16664	10/100	423.32664	10/50
		4	50 60	100-130		423.1661	10/100	423.3261	10/50
5		50 60	600-690		423.16667	10/100	423.32667	10/50	
6		50 60	380-415		423.1666 ¹⁾	10/100	423.3266 ¹⁾	10/50	
7		50 60	480-500		423.16666	10/100	423.32666	10/50	
9		50 60	200-250		423.1664	10/100	423.3264	10/50	
10		100-300	>50		423.16661	10/100	423.32661	10/50	
11		60	440-460		423.16665	10/100	423.32665	10/50	
2		>300-500	>50		423.16672	10/100	423.32672	10/50	
3		50 60	380 50Hz / 440 60Hz		423.16674	10/100	423.32674	10/50	
3P+N+E		4	50 60	100-130		423.1662	10/100	423.3262	10/50
	5	50 60	600-690		423.16677	10/100	423.32677	10/50	
	6	50 60	346-415		423.1667 ¹⁾	10/100	423.3267 ¹⁾	10/50	
	7	50 60	480-500		423.16676	10/100	423.32676	10/50	
	9	50 60	208-250		423.1665	10/100	423.3265	10/50	
	10	100-300	>50		423.16671		423.32671		
11	60	440-460		423.16675	10/100	423.32675	10/50		

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ FLUSH MOUNTING SOCKET OUTLETS - IP44/IP54 >> MANTLE TERMINALS - STRAIGHT OUTLET



IP: IP44/IP54
Flange: 100X110MM

Poles	h	Hz	Volt	Colour	63A		
2P+E	2	>300-500	>50		423.63632	6/30	
	3	DC	>50-250		423.63634	6/30	
	4	50 60	100-130		423.63660	6/30	
	6	50 60	200-250		423.63631 ¹⁾	6/30	
	7	50 60	480-500		423.63636	6/30	
	8	DC	>250		423.63638	6/30	
	9	50 60	380-415		423.63668	6/30	
	10	100-300	>50		423.63631	6/30	
	12	50 60	TST>50		423.63633	6/30	
	3P+E	2	>300-500	>50		423.63662	6/30
		3	50 60	380 50Hz / 440 60Hz		423.63664	6/30
		4	50 60	100-130		423.63661	6/30
5		50 60	600-690		423.63667	6/30	
6		50 60	380-415		423.63661 ¹⁾	6/30	
7		50 60	480-500		423.63666	6/30	
9		50 60	200-250		423.63664	6/30	
10		100-300	>50		423.63661	6/30	
11		60	440-460		423.63665	6/30	
3P+N+E		2	>300-500	>50		423.63672	6/30
		3	50 60	380 50Hz / 440 60Hz		423.63674	6/30
	4	50 60	100-130		423.63662	6/30	
	5	50 60	600-690		423.63677	6/30	
	6	50 60	346-415		423.63671 ¹⁾	6/30	
	7	50 60	480-500		423.63676	6/30	
	9	50 60	208-250		423.63665	6/30	
	10	100-300	>50		423.63671	6/30	
	11	60	440-460		423.63675	6/30	

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



Flush mounting socket outlets

■ FLUSH MOUNTING SOCKET OUTLETS - IP66/IP67/IP69 >> SCREW TERMINALS - STRAIGHT OUTLET 55X55MM



IP: IP66/IP67/IP69
Flange: 55X55MM

Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130		428.1660/RR	10/100
	6	50 60	200-250		428.1663/RR ¹⁾	10/100
	9	50 60	380-415		428.1668/RR	10/100

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ FLUSH MOUNTING SOCKET OUTLETS - IP66/IP67/IP69 >> SCREW TERMINALS - STRAIGHT OUTLET 62X62MM



IP: IP66/IP67/IP69
Flange: 62X62MM

Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130		428.1660/R	10/100
	6	50 60	200-250		428.1663/R ¹⁾	10/100
	9	50 60	380-415		428.1668/R	10/100
3P+E	4	50 60	100-130		428.1661/R	10/100
	6	50 60	380-415		428.1666/R ¹⁾	10/100
	9	50 60	200-250		428.1664/R	10/100

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ FLUSH MOUNTING SOCKET OUTLETS - IP66/IP67/IP69 >> SCREW TERMINALS - STRAIGHT OUTLET 75X75MM



IP: IP66/IP67/IP69
Flange: 75X75MM

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	2	>300-500	>50		428.16632	10/100	428.32632	10/50
	3	DC	>50-250		428.16634	10/100	428.32634	10/50
	4	50 60	100-130		428.1660	10/100	428.3260	10/50
	6	50 60	200-250		428.1663 ¹⁾	10/100	428.3263 ¹⁾	10/50
	7	50 60	480-500		428.16636	10/100	428.32636	10/50
	8	DC	>250		428.16638	10/100	428.32638	10/50
	9	50 60	380-415		428.1668	10/100	428.3268	10/50
	10	100-300	>50		428.16631		428.32631	
	12	50 60	TST>50		428.16633	10/100	428.32633	10/50
	2	>300-500	>50		428.16662	10/100	428.32662	10/50
	3	50 60	380 50Hz / 440 60Hz		428.16664	10/100	428.32664	10/50
	3P+E	4	50 60	100-130		428.1661	10/100	428.3261
5		50 60	600-690		428.16667	10/100	428.32667	10/50
6		50 60	380-415		428.1666 ¹⁾	10/100	428.3266 ¹⁾	10/50
7		50 60	480-500		428.16666	10/100	428.32666	10/50
9		50 60	200-250		428.1664	10/100	428.3264	10/50
10		100-300	>50		428.16661	10/100	428.32661	10/50
11		60	440-460		428.16665	10/100	428.32665	10/50
12		50 60	TST>50				428.32663	10/50
2		>300-500	>50		428.16672	10/100	428.32672	10/50
3		50 60	380 50Hz / 440 60Hz		428.16674	10/100	428.32674	10/50
4		50 60	100-130		428.1662	10/100	428.3262	10/50
3P+N+E		5	50 60	600-690		428.16677	10/100	428.32677
	6	50 60	346-415		428.1667 ¹⁾	10/100	428.3267 ¹⁾	10/50
	7	50 60	480-500		428.16676	10/100	428.32676	10/50
	9	50 60	208-250		428.1665	10/100	428.3265	10/50
	10	100-300	>50		428.16671		428.32671	
	11	60	440-460		428.16675	10/100	428.32675	10/50

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ FLUSH MOUNTING SOCKET OUTLETS - IP66/IP67/IP69 >> MANTLE TERMINALS - STRAIGHT OUTLET



FLUSH MOUNTING SOCKET OUTLETS
OPTIMA SERIES



IP: IP66/IP67/IP69
Flange: 100X110MM

Poles	h	Hz	Volt	Colour	63A	
2P+E	2	>300-500	>50		428.63632	6/30
	3	DC	>50-250		428.63634	6/30
	4	50 60	100-130		428.6360	6/30
	6	50 60	200-250		428.6363 ¹⁾	6/30
	7	50 60	480-500		428.63636	6/30
	8	DC	>250		428.63638	6/30
	9	50 60	380-415		428.6368	6/30
	10	100-300	>50		428.63631	
	12	50 60	TST>50		428.63633	6/30
	3P+E	2	>300-500	>50		428.63662
3		50 60	380 50Hz / 440 60Hz		428.63664	6/30
4		50 60	100-130		428.6361	6/30
5		50 60	600-690		428.63667	6/30
6		50 60	380-415		428.6366 ¹⁾	6/30
7		50 60	480-500		428.63666	6/30
9		50 60	200-250		428.6364	6/30
10		100-300	>50		428.63661	6/30
11		60	440-460		428.63665	6/30
3P+N+E		2	>300-500	>50		428.63672
	3	50 60	380 50Hz / 440 60Hz		428.63674	6/30
	4	50 60	100-130		428.6362	6/30
	5	50 60	600-690		428.63677	6/30
	6	50 60	346-415		428.6367 ¹⁾	6/30
	7	50 60	480-500		428.63676	6/30
	9	50 60	208-250		428.6365	6/30
	10	100-300	>50		428.63671	
	11	60	440-460		428.63675	6/30

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



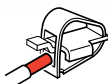
IP: IP66/IP67/IP69
Flange: 114X114MM

Poles	h	Hz	Volt	Colour	125A	
2P+E	2	>300-500	>50		428.125632	10
	3	DC	>50-250		428.125634	10
	4	50 60	100-130		428.12560	10
	6	50 60	200-250		428.12563 ¹⁾	10
	7	50 60	480-500		428.125636	10
	8	DC	>250		428.125638	10
	9	50 60	380-415		428.12568	10
	10	100-300	>50		428.125631	
	12	50 60	TST>50		428.125633	10
	3P+E	2	>300-500	>50		428.125662
3		50 60	380 50Hz / 440 60Hz		428.125664	10
4		50 60	100-130		428.12561	1/10
5		50 60	600-690		428.125667	10
6		50 60	380-415		428.12566 ¹⁾	10
7		50 60	480-500		428.125666	10
9		50 60	200-250		428.12564	10
10		100-300	>50		428.125661	10
11		60	440-460		428.125665	10
3P+N+E		2	>300-500	>50		428.125672
	3	50 60	380 50Hz / 440 60Hz		428.125674	10
	4	50 60	100-130		428.12562	10
	5	50 60	600-690		428.125677	10
	6	50 60	346-415		428.12567 ¹⁾	10
	7	50 60	480-500		428.125676	10
	9	50 60	208-250		428.12565	10
	10	100-300	>50		428.125671	
	11	60	440-460		428.125675	1/10

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

Flush mounting socket outlets

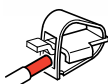
■ FLUSH MOUNTING SOCKET OUTLETS - IP44/IP54 - SPRING TERMINALS - ANGLED OUTLET



IP: IP44/IP54
Flange: 70X87MM

Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130	Yellow	413.1660F	10/100
	6	50 60	200-250	Blue	413.1663F ¹⁾	10/100
	9	50 60	380-415	Red	413.1668F	10/100
3P+E	6	50 60	380-415	Red	413.1666F ¹⁾	10/100
	9	50 60	200-250	Blue	413.1664F	10/100
3P+N+E	6	50 60	346-415	Red	413.1667F ¹⁾	10/100

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

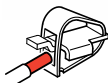


IP: IP44/IP54
Flange: 84X106MM

Poles	h	Hz	Volt	Colour	32A	
2P+E	4	50 60	100-130	Yellow	413.3260F	10/50
	6	50 60	200-250	Blue	413.3263F ¹⁾	10/50
	9	50 60	380-415	Red	413.3268F	10/50
3P+E	6	50 60	380-415	Red	413.3266F ¹⁾	10/50
	9	50 60	200-250	Blue	413.3264F	10/50
3P+N+E	6	50 60	346-415	Red	413.3267F ¹⁾	10/50

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

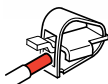
■ FLUSH MOUNTING SOCKET OUTLETS - IP66/IP67/IP69 - SPRING TERMINALS - ANGLED OUTLET



IP: IP66/IP67/IP69
Flange: 70X87MM

Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130	Yellow	418.1660F	10/100
	6	50 60	200-250	Blue	418.1663F ¹⁾	10/100
	9	50 60	380-415	Red	418.1668F	10/100
3P+E	6	50 60	380-415	Red	418.1666F ¹⁾	10/100
	9	50 60	200-250	Blue	418.1664F	10/100
3P+N+E	6	50 60	346-415	Red	418.1667F ¹⁾	10/100

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP66/IP67/IP69
Flange: 84X106MM

Poles	h	Hz	Volt	Colour	32A	
2P+E	4	50 60	100-130	Yellow	418.3260F	10/50
	6	50 60	200-250	Blue	418.3263F ¹⁾	10/50
	9	50 60	380-415	Red	418.3268F	10/50
3P+E	6	50 60	380-415	Red	418.3266F ¹⁾	10/50
	9	50 60	200-250	Blue	418.3264F	10/50
3P+N+E	6	50 60	346-415	Red	418.3267F ¹⁾	10/50

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.

■ FLUSH MOUNTING SOCKETS OUTLETS - IP44/IP54 - SAFE-IN



Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130		413.1660H	10/100
	6	50 60	200-250		413.1663H ¹⁾	10/100
	9	50 60	380-415		413.1668H	10/100
3P+E	6	50 60	380-415		413.1666H ¹⁾	10/100
	9	50 60	200-250		413.1664H	10/100
3P+N+E	6	50 60	346-415		413.1667H ¹⁾	10/100

Sockets with "SAFE-IN" safety device.

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP44/IP54
Flange: 70X87MM



■ FLUSH MOUNTING SOCKETS OUTLETS - IP66/IP67/IP69 - SAFE-IN



Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130		418.1660H	10/100
	6	50 60	200-250		418.1663H ¹⁾	10/100
	9	50 60	380-415		418.1668H	10/100
3P+E	6	50 60	380-415		418.1666H ¹⁾	10/100
	9	50 60	200-250		418.1664H	10/100
3P+N+E	6	50 60	346-415		418.1667H ¹⁾	10/100

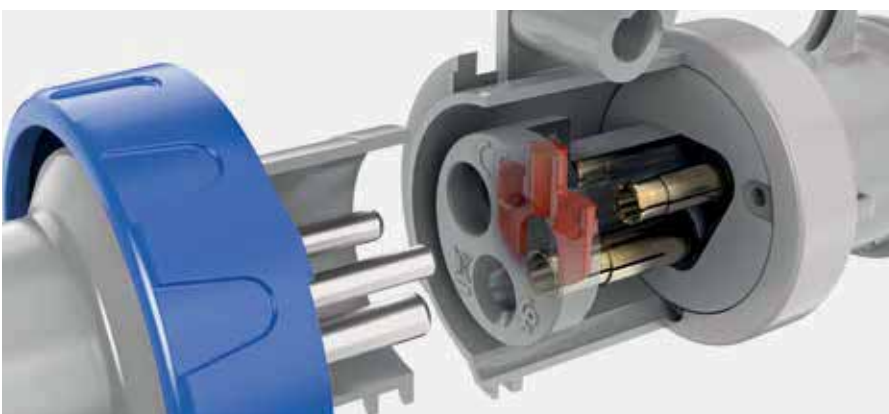
Sockets with "SAFE-IN" safety device.

¹⁾Version also available in black; just add ".K" at the end of the catalogue number.



IP: IP66/IP67/IP69
Flange: 70X87MM

The "SAFE-IN" safety device



The "SAFE-IN" safety device, assembled on specific versions of the 16A industrial sockets of the OPTIMA Series, works like the protection installed on household sockets: by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the sockets.

1.1 INDUSTRIAL PLUGS AND SOCKETS

Flush mounting socket outlets



EUREKA Series

EUREKA is a range of 16 and 32A flush mounting industrial sockets with 90° angled socket body. The shape of the socket has the advantage of a reduced protrusion, thus preventing any damage due to accidental contacts due to excessive protrusion of the plug. The EUREKA series electrical sockets are equipped with screw terminals.

technical sheet p. 730

■ FLUSH MOUNTING SOCKET OUTLETS - IP44 >> SCREW TERMINALS - 90° ANGLED OUTLET



IP: IP44
Flange: 70X87MM

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	2	>300-500	>50		452.16632	10/100	452.32632	10/40
	3	DC	>50-250		452.16634	10/100	452.32634	10/40
	4	50 60	100-130		452.16660	10/100	452.32660	10/40
	6	50 60	200-250		452.16663	10/100	452.32663	10/40
	7	50 60	480-500		452.16636	10/100	452.32636	10/40
	8	DC	>250		452.16638	10/100	452.32638	10/40
	9	50 60	380-415		452.16668	10/100	452.32668	10/40
	12	50 60	TST>50		452.16633	10/100	452.32633	10/40
	3P+E	2	>300-500	>50		452.16662	10/60	452.32662
3		50 60	380 50Hz / 440 60Hz		452.16664	10/60	452.32664	10/40
4		50 60	100-130		452.16661	10/60	452.32661	10/40
5		50 60	600-690		452.16667	10/60	452.32667	10/40
6		50 60	380-415		452.16666	10/60	452.32666	10/40
7		50 60	480-500		452.16666	10/60	452.32666	10/40
9		50 60	200-250		452.16664	10/60	452.32664	10/40
10		100-300	>50		452.16661	10/60	452.32661	10/40
3P+N+E	11	60	440-460		452.16665	10/60	452.32665	10/40
	2	>300-500	>50		452.16672	10/60	452.32672	10
	3	50 60	380 50Hz / 440 60Hz		452.16674	10/60	452.32674	10
	4	50 60	100-130		452.16662	10/60	452.32662	10/40
	5	50 60	600-690		452.16677	10/60	452.32677	10
	6	50 60	346-415		452.16667	10/60	452.32667	10/40
	7	50 60	480-500		452.16676	10/60	452.32676	10
	9	50 60	208-250		452.16665	10/60	452.32665	10/40
11	60	440-460		452.16675	10/60	452.32675	10	

■ FLUSH MOUNTING SOCKET OUTLETS - IP66/IP67 >> SCREW TERMINALS - 90° ANGLED OUTLET



IP: IP66/IP67
Flange: 70X87MM

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	2	>300-500	>50		457.16632	10/60	457.32632	10/40
	3	DC	>50-250		457.16634	10/60	457.32634	10/40
	4	50 60	100-130		457.16660	10/60	457.32660	10/40
	6	50 60	200-250		457.16663	10/60	457.32663	10/40
	7	50 60	480-500		457.16636	10/60	457.32636	10/40
	8	DC	>250		457.16638	10/60	457.32638	10/40
	9	50 60	380-415		457.16668	10/60	457.32668	10/40
	12	50 60	TST>50		457.16633	10/60	457.32633	10/40
3P+E	2	>300-500	>50		457.16662	10/50	457.32662	10/40
	3	50 60	380 50Hz / 440 60Hz		457.16664	10/50	457.32664	10/40
	4	50 60	100-130		457.16661	10/50	457.32661	10/40
	5	50 60	600-690		457.16667	10/50	457.32667	10/40
	6	50 60	380-415		457.16666	10/50	457.32666	10/40
	7	50 60	480-500		457.16666	10/50	457.32666	10/40
	9	50 60	200-250		457.16664	10/50	457.32664	10/40
	10	100-300	>50		457.16661	10/50	457.32661	10/40
3P+N+E	11	60	440-460		457.16665	10/50	457.32665	10/40
	2	>300-500	>50		457.16672	10/50	457.32672	10/40
	3	50 60	380 50Hz / 440 60Hz		457.16674	10/50	457.32674	10/40
	4	50 60	100-130		457.16662	10/50	457.32662	10/40
	5	50 60	600-690		457.16677	10/50	457.32677	10/40
	6	50 60	346-415		457.16667	10/50	457.32667	10/40
	7	50 60	480-500		457.16676	10/50	457.32676	10/40
	9	50 60	208-250		457.16665	10/50	457.32665	10/40
11	60	440-460		457.16675	10/50	457.32675	10/40	



1.1 INDUSTRIAL PLUGS AND SOCKETS

Surface mounting socket outlets



SURFACE MOUNTING SOCKET OUTLETS

OPTIMA SERIES p. 98
Surface mounting industrial socket outlets



OPTIMA-BASE SERIES p. 100
Surface mounting industrial socket outlets with monobloc body



OPTIMA-TOP SERIES p. 102
Surface mounting industrial socket outlets with reversible base


































XENIA SERIES p. 109
Surface mounting industrial socket outlets



OPTIMA-COMBI SERIES p. 110
Surface mounting industrial socket outlets with domestic socket integrated



				OPTIMA Series	OPTIMA-BASE Series	OPTIMA-TOP Series	OPTIMA-TOP Series	XENIA Series				
												
				angled box	straight box							
				IP44/IP54		IP44/IP54	IP44/IP54	IP44/IP54	IP44/IP54	IP44/IP54		
				SCREW WIRING	SCREW WIRING	SCREW WIRING	SCREW WIRING	FAST WIRING	SCREW WIRING	SCREW WIRING		
	Poles	Volt	Colour	h	Screw terminals	Screw terminals	Screw terminals	Screw terminals	Spring terminals	Screw terminals	Screw terminals	
16A	2P+E	100-130V		4	512.1650	522.1650	513.1650	513.1650T	513.1650TF	513.1650TH	514.1650	
		200-250V		6	512.1653	522.1653	513.1653	513.1653T	513.1653TF	513.1653TH	514.1653	
		380-415V		9	512.1658	522.1658		513.1658T	513.1658TF	513.1658TH		
	3P+E	100-130V		4	512.1651	522.1651		513.1651T				
		380-415V		6	512.1656	522.1656	513.1656	513.1656T	513.1656TF	513.1656TH	514.1656	
		200-250V		9	512.1654	522.1654		513.1654T	513.1654TF	513.1654TH		
	3P+N+E	100-130V		4	512.1652	522.1652		513.1652T				
		346-415V		6	512.1657	522.1657	513.1657	513.1657T	513.1657TF	513.1657TH	514.1657	
		208-250V		9	512.1655	522.1655		513.1655T				
				Screw terminals	Screw terminals	Screw terminals	Screw terminals	Spring terminals		Screw terminals		
32A	2P+E	100-130V		4	512.3250	522.3250	513.3250	513.3250T	513.3250TF		514.3250	
		200-250V		6	512.3253	522.3253	513.3253	513.3253T	513.3253TF		514.3253	
		380-415V		9	512.3258	522.3258		513.3258T	513.3258TF			
	3P+E	100-130V		4	512.3251	522.3251		513.3251T				
		380-415V		6	512.3256	522.3256	513.3256	513.3256T	513.3256TF		514.3256	
		200-250V		9	512.3254	522.3254		513.3254T	513.3254TF			
	3P+N+E	100-130V		4	512.3252	522.3252		513.3252T				
		346-415V		6	512.3257	522.3257	513.3257	513.3257T	513.3257TF		514.3257	
		208-250V		9	512.3255	522.3255		513.3255T				
							Mantle terminals					
63A	2P+E	200-250V		6				513.6353T				
		380-415V		9				513.6358T				
	3P+E	380-415V		6				513.6356T				
		200-250V		9				513.6354T				
	3P+N+E	346-415V		6				513.6357T				
		208-250V		9				513.6355T				
125A	2P+E	200-250V		6								
		380-415V		9								
	3P+E	380-415V		6								
		200-250V		9								
	3P+N+E	346-415V		6								
		208-250V		9								

OPTIMA Series		OPTIMA-TOP Series		OPTIMA-TOP Series
				 ¹ SAFE-IN
IP66/IP67/IP69		IP66/IP67/IP69	IP66/IP67/IP69	IP66/IP67/IP69
SCREW WIRING		SCREW WIRING	FAST WIRING	SCREW WIRING
Screw terminals	Screw terminals	Screw terminals	Spring terminals	Screw terminals
517.1650	527.1650	518.1650T	518.1650TF	518.1650TH
517.1653	527.1653	518.1653T	518.1653TF	518.1653TH
517.1658	527.1658	518.1658T	518.1658TF	518.1658TH
517.1651	527.1651	518.1651T		
517.1656	527.1656	518.1656T	518.1656TF	518.1656TH
517.1654	527.1654	518.1654T	518.1654TF	518.1654TH
517.1652	527.1652	518.1652T		
517.1657	527.1657	518.1657T	518.1657TF	518.1657TH
517.1655	527.1655	518.1655T		
Screw terminals	Screw terminals	Screw terminals	Spring terminals	
517.3250	527.3250	518.3250T	518.3250TF	
517.3253	527.3253	518.3253T	518.3253TF	
517.3258	527.3258	518.3258T	518.3258TF	
517.3251	527.3251	518.3251T		
517.3256	527.3256	518.3256T	518.3256TF	
517.3254	527.3254	518.3254T	518.3254TF	
517.3252	527.3252	518.3252T		
517.3257	527.3257	518.3257T	518.3257TF	
517.3255	527.3255	518.3255T		
		Mantle terminals		
		518.6353T		
		518.6358T		
		518.6356T		
		518.6354T		
		518.6357T		
		518.6355T		
		518.12553T		
		518.12558T		
		518.12556T		
		518.12554T		
		518.12557T		
		518.12555T		

Terminals


FAST WIRING - Anti vibrations



Optimal connections for high currents

¹ The "SAFE-IN" safety device


The "SAFE-IN" safety device, assembled on specific versions of the 16A industrial sockets of the OPTIMA Series, works like the protection installed on household sockets: by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the sockets.

1.1 INDUSTRIAL PLUGS AND SOCKETS

Surface mounting socket outlets



OPTIMA Series

OPTIMA is a range of 16 and 32A surface mounting socket outlets, with straight or angled base.

Robust industrial sockets thanks to the use of high performance technopolymer enclosures

Practical thanks to the use of screw terminals and threaded metric inputs or drilling centers on the bases.

The unlosable co-molded gasket guarantees a constant seal of the IP protection degree.

The electrical sockets of the OPTIMA series do not neglect the environmental aspect, being produced with halogen-free materials.

technical sheet p. 734

■ SURFACE MOUNTING SOCKET OUTLETS - IP44/IP54 >> SCREW TERMINALS - ANGLED BOX



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	4	50 60	100-130		512.1650	10/50	512.3250	10/40
	6	50 60	200-250		512.1653	10/50	512.3253	10/40
	9	50 60	380-415		512.1658	10/50	512.3258	10/40
3P+E	4	50 60	100-130		512.1651	10/50	512.3251	10/40
	6	50 60	380-415		512.1656	10/50	512.3256	10/40
	9	50 60	200-250		512.1654	10/50	512.3254	10/40
3P+N+E	4	50 60	100-130		512.1652	10/50	512.3252	10/40
	6	50 60	346-415		512.1657	10/50	512.3257	10/40
	9	50 60	208-250		512.1655	10/50	512.3255	10/40

Open threaded cable entry.
Rubber threaded cable sleeve included.

■ SURFACE MOUNTING SOCKET OUTLETS - IP44/IP54 >> SCREW TERMINALS - STRAIGHT BOX



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	4	50 60	100-130		522.1650	10/50	522.3250	10/40
	6	50 60	200-250		522.1653	10/50	522.3253	10/40
	9	50 60	380-415		522.1658	10/50	522.3258	10/40
3P+E	4	50 60	100-130		522.1651	10/50	522.3251	10/40
	6	50 60	380-415		522.1656	10/50	522.3256	10/40
	9	50 60	200-250		522.1654	10/50	522.3254	10/40
3P+N+E	4	50 60	100-130		522.1652	10/50	522.3252	10/40
	6	50 60	346-415		522.1657	10/50	522.3257	10/40
	9	50 60	208-250		522.1655	10/50	522.3255	10/40

Blank side with drilling point marks.
Rubber cable sleeve included.

■ SURFACE MOUNTING SOCKET OUTLETS - IP66/IP67/IP69 >> SCREW TERMINALS - ANGLED BOX



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A	10/50	32A	10/40
2P+E	4	50 60	100-130	Yellow	517.1650	10/50	517.3250	10/40
	6	50 60	200-250	Blue	517.1653	10/50	517.3253	10/40
	9	50 60	380-415	Red	517.1658	10/50	517.3258	10/40
3P+E	3	50 60	380 50Hz / 440 60Hz	Red			517.32564	10/40
	4	50 60	100-130	Yellow	517.1651	10/50	517.3251	10/40
	6	50 60	380-415	Red	517.1656	10/50	517.3256	10/40
	9	50 60	200-250	Blue	517.1654	10/50	517.3254	10/40
3P+N+E	4	50 60	100-130	Yellow	517.1652	10/40	517.3252	10/40
	6	50 60	346-415	Red	517.1657	10/40	517.3257	10/40
	9	50 60	208-250	Blue	517.1655	10/40	517.3255	10/40

Open threaded cable entry.
Threaded cap/cable sleeve included.

■ SURFACE MOUNTING SOCKET OUTLETS - IP66/IP67/IP69 >> SCREW TERMINALS - STRAIGHT BOX



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A	10/50	32A	10/40
2P+E	4	50 60	100-130	Yellow	527.1650	10/50	527.3250	10/40
	6	50 60	200-250	Blue	527.1653	10/50	527.3253	10/40
	9	50 60	380-415	Red	527.1658	10/50	527.3258	10/40
3P+E	4	50 60	100-130	Yellow	527.1651	10/50	527.3251	10/40
	6	50 60	380-415	Red	527.1656	10/50	527.3256	10/40
	9	50 60	200-250	Blue	527.1654	10/50	527.3254	10/40
3P+N+E	4	50 60	100-130	Yellow	527.1652	10/50	527.3252	10/40
	6	50 60	346-415	Red	527.1657	10/50	527.3257	10/40
	9	50 60	208-250	Blue	527.1655	10/50	527.3255	10/40

Blank side with drilling point marks.



1.1 INDUSTRIAL PLUGS AND SOCKETS

Surface mounting socket outlets



OPTIMA-BASE Series

OPTIMA-BASE is a range of 16 and 32A surface mounting industrial socket outlet with monoblock body

Robust industrial sockets thanks to the use of high performance technopolymer enclosures

Practical thanks to the use of screw terminals and threaded metric entries or drilling points on the bases.

The unlosable co-molded gasket is a guarantee of a constant degree of protection IP.

The OPTIMA-BASE series sockets do not neglect the environmental aspect, being produced with halogen-free materials.

 technical sheet p. 736

Technical information

Main characteristics



01 Single locking screw

02 One-piece removable cover

03 Screw terminals

04 External fixing points

05 M32 rubber cable sleeve

Applications examples



Industry

■ BASE - IP44 - SCREW TERMINALS



Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	4	50 60	100-130		513.1650	10/40	513.3250	10
	6	50 60	200-250		513.1653	10/40	513.3253	10
3P+E	6	50 60	380-415		513.1656	10/40	513.3256	10
3P+N+E	6	50 60	346-415		513.1657	10/40	513.3257	10

Open threaded cable entry.
Rubber threaded cable sleeve included.



IP: IP44

Terminals



screw terminals





OPTIMA-TOP Series


OPTIMA-TOP is a complete range of surface mounting industrial socket outlets from 16 up to 125A.

Robust industrial sockets thanks to the use of high performance helogen-free technopolymer enclosures.

Versatile thanks to the variety of terminals so to always guarantee the best connection according to the type of use and the wiring needs.

Practical thanks to the reversible base and to the removable socket to facilitate wiring operations.

The SAFE-IN versions are equipped with protective shutters on the contact tubes so to prevent harmful contact with live parts, adding further safety in case of installation in places with unqualified users.

 technical sheet p. 736

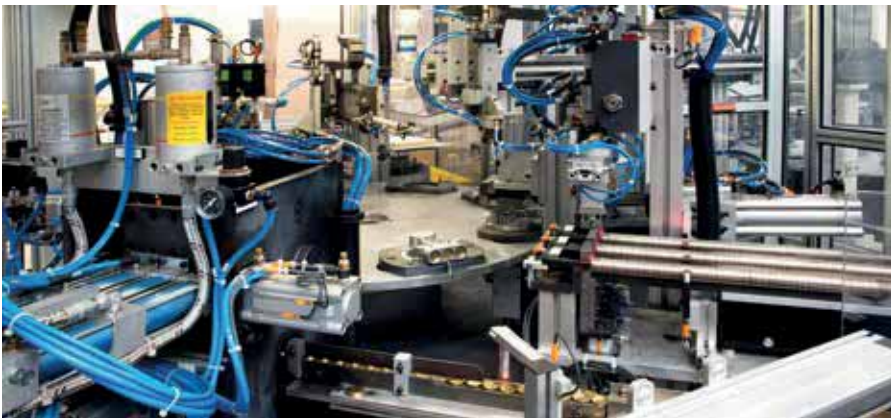
Technical information

Main characteristics



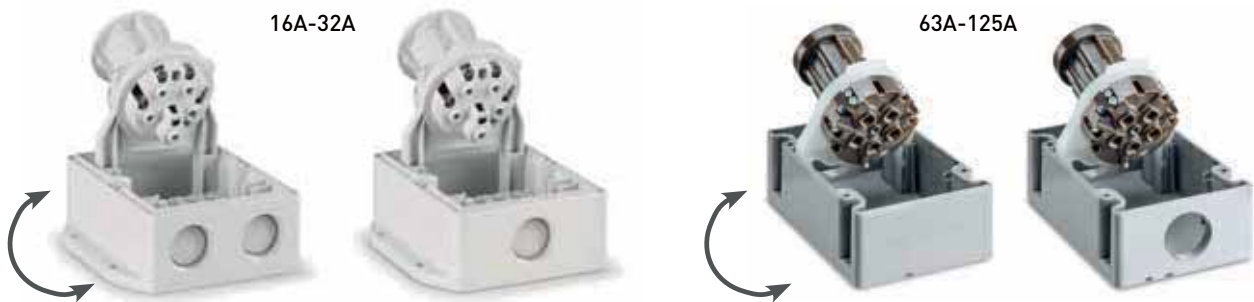
- 01** Clear indication of open or closed position
- 02** One-piece removable cover
- 03** 3 different types of terminals: screw (16A-32A), spring (16A-32A), mantle (63A-125A)
- 04** SAFE-IN versions available with safety shutters
- 05** Removable socket for easy wiring
- 06** Loop-in - loop-out terminal block (accessory)
- 07** Threaded cable entries with knockouts to preserve IP degree
- 08** Reversible base with external fixing points

Applications examples



Industry

Reversible base



Terminals



screw terminals



spring terminals

FAST WIRING - Anti vibrations



mantle terminals

Optimal connections for high currents

Surface mounting socket outlets

■ TOP - IP44 - SCREW TERMINALS

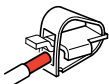


IP: IP44

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	2	>300-500	>50		513.16532T	10/40	513.32532T	10
	3	DC	>50-250		513.16534T	10/40	513.32534T	10
	4	50 60	100-130		513.1650T	10/40	513.3250T	10
	6	50 60	200-250		513.1653T	10/40	513.3253T	10
	7	50 60	480-500		513.16536T	10/40	513.32536T	10
	8	DC	>250		513.16538T	10/40	513.32538T	10
	9	50 60	380-415		513.1658T	10/40	513.3258T	10
	10	100-300	>50		513.16531T		513.32531T	
	12	50 60	TST>50		513.16533T	10/40	513.32533T	10
	3P+E	2	>300-500	>50		513.16562T	10/40	513.32562T
3		50 60	380 50Hz / 440 60Hz		513.16564T	10/40	513.32564T	10
4		50 60	100-130		513.1651T	10/40	513.3251T	10
5		50 60	600-690		513.16567T	10/40	513.32567T	10
6		50 60	380-415		513.1656T	10/40	513.3256T	10
7		50 60	480-500		513.16566T	10/40	513.32566T	10
9		50 60	200-250		513.1654T	10/40	513.3254T	10
10		100-300	>50		513.16561T	10/40	513.32561T	10
11		60	440-460		513.16565T	10/40	513.32565T	10
3P+N+E		2	>300-500	>50		513.16572T	10/40	513.32572T
	3	50 60	380 50Hz / 440 60Hz		513.16574T	10/40	513.32574T	10
	4	50 60	100-130		513.1652T	10/40	513.3252T	10
	5	50 60	600-690		513.16577T	10/40	513.32577T	10
	6	50 60	346-415		513.1657T	10/40	513.3257T	10
	7	50 60	480-500		513.16576T	10/40	513.32576T	10
	9	50 60	208-250		513.1655T	10/40	513.3255T	10
	10	100-300	>50		513.16571T		513.32571T	
	11	60	440-460		513.16575T	10/40	513.32575T	10

Rubber threaded cable sleeve included.
Threaded break-through knock out.

■ TOP - IP44 - SPRING TERMINALS

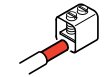


IP: IP44

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	4	50 60	100-130		513.1650TF	10/40	513.3250TF	10
	6	50 60	200-250		513.1653TF	10/40	513.3253TF	10
	9	50 60	380-415		513.1658TF	10/40	513.3258TF	10
3P+E	6	50 60	380-415		513.1656TF	10/40	513.3256TF	10
	9	50 60	200-250		513.1654TF	10/40	513.3254TF	10
3P+N+E	6	50 60	346-415		513.1657TF	10/40	513.3257TF	10

Rubber threaded cable sleeve included.
Threaded break-through knock out.

■ TOP - IP44/IP54 - MANTLE TERMINALS



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	63A		
2P+E	2	>300-500	>50		513.63532T	4	
	3	DC	>50-250		513.63534T	4	
	4	50 60	100-130		513.6350T	4	
	6	50 60	200-250		513.6353T	4	
	7	50 60	480-500		513.63536T	4	
	8	DC	>250		513.63538T	4	
	9	50 60	380-415		513.6358T	4	
	10	100-300	>50		513.63531T		
	12	50 60	TST>50		513.63533T	4	
	3P+E	2	>300-500	>50		513.63562T	4
		3	50 60	380 50Hz / 440 60Hz		513.63564T	4
		4	50 60	100-130		513.6351T	4
5		50 60	600-690		513.63567T	4	
6		50 60	380-415		513.6356T	4	
7		50 60	480-500		513.63566T	4	
9		50 60	200-250		513.6354T	4	
10		100-300	>50		513.63561T	4	
11		60	440-460		513.63565T	4	
3P+N+E		2	>300-500	>50		513.63572T	4
		3	50 60	380 50Hz / 440 60Hz		513.63574T	4
	4	50 60	100-130		513.6352T	4	
	5	50 60	600-690		513.63577T	4	
	6	50 60	346-415		513.6357T	4	
	7	50 60	480-500		513.63576T	4	
	9	50 60	208-250		513.6355T	4	
	10	100-300	>50		513.63571T		
	11	60	440-460		513.63575T	4	

Open threaded cable entry.
Threaded cap/cable sleeve included.
Cable gland included.

SURFACE MOUNTING SOCKET OUTLETS
OPTIMA-TOP SERIES

Surface mounting socket outlets

■ TOP - IP66/IP67/IP69 - SCREW TERMINALS

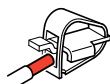


IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A	10/40	32A	10
2P+E	2	>300-500	>50	Green	518.16532T	10/40	518.32532T	10
	3	DC	>50-250	Grey	518.16534T	10/40	518.32534T	10
	4	50 60	100-130	Yellow	518.1650T	10/40	518.3250T	10
	6	50 60	200-250	Blue	518.1653T	10/40	518.3253T	10
	7	50 60	480-500	Black	518.16536T	10/40	518.32536T	10
	8	DC	>250	Grey	518.16538T	10/40	518.32538T	10
	9	50 60	380-415	Red	518.1658T	10/40	518.3258T	10
	10	100-300	>50	Green	518.16531T		518.32531T	
	12	50 60	TST>50	Grey	518.16533T	10/40	518.32533T	10
	3P+E	2	>300-500	>50	Green	518.16562T	10/40	518.32562T
3		50 60	380 50Hz / 440 60Hz	Red	518.16564T	10/40	518.32564T	10
4		50 60	100-130	Yellow	518.1651T	10/40	518.3251T	10
5		50 60	600-690	Black	518.16567T	10/40	518.32567T	10
6		50 60	380-415	Red	518.1656T	10/40	518.3256T	10
7		50 60	480-500	Black	518.16566T	10/40	518.32566T	10
9		50 60	200-250	Blue	518.1654T	10/40	518.3254T	10
10		100-300	>50	Green	518.16561T	10/40	518.32561T	10
11		60	440-460	Red	518.16565T	10/40	518.32565T	10
3P+N+E		2	>300-500	>50	Green	518.16572T	10/40	518.32572T
	3	50 60	380 50Hz / 440 60Hz	Red	518.16574T	10/40	518.32574T	10
	4	50 60	100-130	Yellow	518.1652T	10/40	518.3252T	10
	5	50 60	600-690	Black	518.16577T	10/40	518.32577T	10
	6	50 60	346-415	Red	518.1657T	10/40	518.3257T	10
	7	50 60	480-500	Black	518.16576T	10/40	518.32576T	10
	9	50 60	208-250	Blue	518.1655T	10/40	518.3255T	10
	10	100-300	>50	Green	518.16571T		518.32571T	
	11	60	440-460	Red	518.16575T	10/40	518.32575T	10

Threaded break-through knock out.

■ TOP - IP66/IP67/IP69 - SPRING TERMINALS

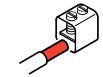


IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A	10/40	32A	10
2P+E	4	50 60	100-130	Yellow	518.1650TF	10/40	518.3250TF	10
	6	50 60	200-250	Blue	518.1653TF	10/40	518.3253TF	10
	9	50 60	380-415	Red	518.1658TF	10/40	518.3258TF	10
3P+E	3	50 60	380 50Hz / 440 60Hz	Red			518.32564TF	10
	6	50 60	380-415	Red	518.1656TF	10/40	518.3256TF	10
3P+N+E	9	50 60	200-250	Blue	518.1654TF	10/40	518.3254TF	10
	6	50 60	346-415	Red	518.1657TF	10/40	518.3257TF	10

Threaded break-through knock out.

■ TOP - IP66/IP67/IP69 - MANTLE TERMINALS



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	63A		125A		
2P+E	2	>300-500	>50		518.63532T	4	518.125532T	1/4	
	3	DC	>50-250		518.63534T	4	518.125534T	1/4	
	4	50 60	100-130		518.6350T	4	518.12550T	1/4	
	6	50 60	200-250		518.6353T	4	518.12553T	1/4	
	7	50 60	480-500		518.63536T	4	518.125536T	1/4	
	8	DC	>250		518.63538T	4	518.125538T	1/4	
	9	50 60	380-415		518.6358T	4	518.12558T	1/4	
	10	100-300	>50		518.63531T		518.125531T		
	12	50 60	TST>50		518.63533T	4	518.125533T	1/4	
	3P+E	2	>300-500	>50		518.63562T	4	518.125562T	1/4
		3	50 60	380 50Hz / 440 60Hz		518.63564T	4	518.125564T	1/4
		4	50 60	100-130		518.6351T	4	518.12551T	1/4
5		50 60	600-690		518.63567T	4	518.125567T	1/4	
6		50 60	380-415		518.6356T	4	518.12556T	1/4	
7		50 60	480-500		518.63566T	4	518.125566T	1/4	
9		50 60	200-250		518.6354T	4	518.12554T	1/4	
10		100-300	>50		518.63561T	4	518.125561T	1/4	
11		60	440-460		518.63565T	4	518.125565T	1/4	
3P+N+E		2	>300-500	>50		518.63572T	4	518.125572T	1/4
		3	50 60	380 50Hz / 440 60Hz		518.63574T	4	518.125574T	1/4
	4	50 60	100-130		518.6352T	4	518.12552T	1/4	
	5	50 60	600-690		518.63577T	4	518.125577T	1/4	
	6	50 60	346-415		518.6357T	4	518.12557T	1/4	
	7	50 60	480-500		518.63576T	4	518.125576T	1/4	
	9	50 60	208-250		518.6355T	4	518.12555T	1/4	
	10	100-300	>50		518.63571T		518.125571T		
	11	60	440-460		518.63575T	4	518.125575T	1/4	

Open threaded cable entry.
Threaded cap/cable sleeve included.
Cable gland included.

SURFACE MOUNTING SOCKET OUTLETS
OPTIMA-TOP SERIES

Surface mounting socket outlets

■ TOP - IP44 - SCREW TERMINALS - SAFE-IN



Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130		513.1650TH	10/40
	6	50 60	200-250		513.1653TH	10/40
	9	50 60	380-415		513.1658TH	10/40
3P+E	6	50 60	380-415		513.1656TH	10/40
	9	50 60	200-250		513.1654TH	10/40
3P+N+E	6	50 60	346-415		513.1657TH	10/40

Rubber threaded cable sleeve included.
Threaded break-through knock out.
Sockets with "SAFE-IN" safety device.



IP: IP44

■ TOP - IP66/IP67/IP69 - SCREW TERMINALS - SAFE-IN



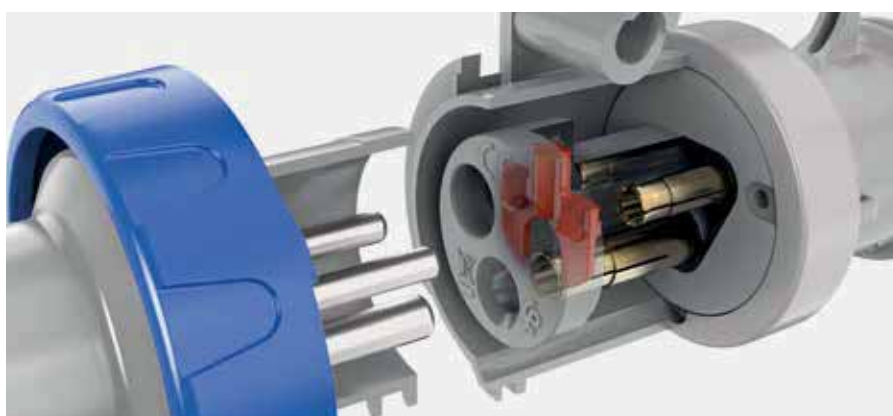
Poles	h	Hz	Volt	Colour	16A	
2P+E	4	50 60	100-130		518.1650TH	10/40
	6	50 60	200-250		518.1653TH	10/40
	9	50 60	380-415		518.1658TH	10/40
3P+E	6	50 60	380-415		518.1656TH	10/40
	9	50 60	200-250		518.1654TH	10/40
3P+N+E	6	50 60	346-415		518.1657TH	10/40

Threaded break-through knock out.
Sockets with "SAFE-IN" safety device.



IP: IP66/IP67/IP69

The "SAFE-IN" safety device



The "SAFE-IN" safety device, assembled on specific versions of the 16A industrial sockets of the OPTIMA Series, works like the protection installed on household sockets: by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the sockets.



XENIA Series

XENIA is a range of 16 and 32A surface mounting industrial socket outlets with angled base.

Robust and secure industrial sockets thanks to the use of high performance technopolymer enclosures.

Practical thanks to the use of screw terminals and metric threaded entries on the base.

technical sheet **p. 748**

■ SURFACE MOUNTING SOCKET OUTLETS - IP44/IP54 >> SCREW TERMINALS - ANGLED BOX



Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	4	50 60	100-130		514.1650	10/40	514.3250	10/40
	6	50 60	200-250		514.1653	10/40	514.3253	10/40
3P+E	6	50 60	380-415		514.1656	10/40	514.3256	10/40
3P+N+E	6	50 60	346-415		514.1657	10/40	514.3257	10/40

Open threaded cable entry.
 Rubber threaded cable sleeve included.



IP: IP44/IP54

1.1 INDUSTRIAL PLUGS AND SOCKETS

Surface mounting socket outlets



OPTIMA-COMBI Series

OPTIMA-COMBI is a range of surface mounting industrial socket outlets combined with a domestic sockets in the main international standards. Available in 16A and 32A versions with fuse as protection of the domestic socket outlet.

Robust industrial sockets thanks to the use of high performance technopolymer enclosures.

Practical thanks to the use of screw terminals and threaded metric entries or drilling points on the bases.

The unlosable co-molded gasket guarantees a constant seal of the IP protection degree.

 technical sheet p. 738

Technical information

Main characteristics



01 IP54 domestic socket

02 One-piece removable cover

03 Screw terminals

04 Domestic socket protection fuse

05 External fixing points

06 M32 rubber cable sleeve

■ COMBI - IP44/IP54 - SCREW TERMINALS



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	Type	16A	10	32A	10
2P+E	6	50 60	200-250	Blue		513.1653-FN	10	513.3253-FF ¹⁾	10
	6	50 60	200-250	Blue		513.1653-DN	10	513.3253-DF ¹⁾	10
	6	50 60	200-250	Blue		513.1653-PN	10	513.3253-PF ¹⁾	10
	6	50 60	200-250	Blue		513.1653-LN	10	513.3253-LF ¹⁾	10
	6	50 60	200-250	Blue		513.1653-BN ¹⁾	10	513.3253-BF ¹⁾	10
	6	50 60	200-250	Blue		513.1653-SN ¹⁾	10		
	6	50 60	200-250	Blue		513.1653-AF ¹⁾	10	513.3253-AF ¹⁾	10
	6	50 60	200-250	Blue		513.1653-CF ¹⁾	10	513.3253-CF ¹⁾	10
	6	50 60	200-250	Blue		513.1653-KN	10	513.3253-KF ¹⁾	10
	3P+E	6	50 60	380-415	Red		513.1656-FN	10	513.3256-FF ¹⁾
6		50 60	380-415	Red		513.1656-DN	10	513.3256-DF ¹⁾	10
6		50 60	380-415	Red		513.1656-PN	10	513.3256-PF ¹⁾	10
6		50 60	380-415	Red		513.1656-LN	10	513.3256-LF ¹⁾	10
6		50 60	380-415	Red		513.1656-BN ¹⁾	10	513.3256-BF ¹⁾	10
6		50 60	380-415	Red		513.1656-SN ¹⁾	10		
6		50 60	380-415	Red		513.1656-AF ¹⁾	10	513.3256-AF ¹⁾	10
6		50 60	380-415	Red		513.1656-CF ¹⁾	10	513.3256-CF ¹⁾	10
6		50 60	380-415	Red		513.1656-KN	10	513.3256-KF ¹⁾	10
3P+N+E		6	50 60	346-415	Red		513.1657-FN	10	513.3257-FF ¹⁾
	6	50 60	346-415	Red		513.1657-DN	10	513.3257-DF ¹⁾	10
	6	50 60	346-415	Red		513.1657-PN	10	513.3257-PF ¹⁾	10
	6	50 60	346-415	Red		513.1657-LN	10	513.3257-LF ¹⁾	10
	6	50 60	346-415	Red		513.1657-BN ¹⁾	10	513.3257-BF ¹⁾	10
	6	50 60	346-415	Red		513.1657-SN ¹⁾	10		
	6	50 60	346-415	Red		513.1657-AF ¹⁾	10	513.3257-AF ¹⁾	10
	6	50 60	346-415	Red		513.1657-CF ¹⁾	10	513.3257-CF ¹⁾	10
	6	50 60	346-415	Red		513.1657-KN	10	513.3257-KF ¹⁾	10

Open threaded cable entry.
Rubber threaded cable sleeve included.
COMBI version: combining industrial and household sockets.

¹⁾ Household socket protected by 10A fuse [time-delay] (included).

French standard 2P+E 16A	German standard 2P+E 16A	Italian standard P30 2P+E 16A	Pluristandard P40 2P+E 16A	British standard 2P+E 13A	Swiss standard 2P+E 10A	Argentinian standard 2P+E 10A	Brazilian standard 2P+E 10A	Danish standard 2P+E 10A

1.1 INDUSTRIAL PLUGS AND SOCKETS

Surface mounting socket outlets with switch



SURFACE MOUNTING SOCKET OUTLETS WITH SWITCH

OPTIMA-TOP SWITCH SERIES p. 114
Surface mounting industrial socket outlets with switch



OPTIMA-COMBI SWITCH SERIES p. 116
Surface mounting industrial socket outlets with switch and integrated domestic sockets



OPTIMA-COMBI REVERSE[L-O-R] SERIES p. 118
Surface mounting industrial sockets outlets with motor reversing switch and integrated domestic sockets



1.1 INDUSTRIAL PLUGS AND SOCKETS

Surface mounting socket outlets with switch




OPTIMA-TOP SWITCH Series

OPTIMA-TOP SWITCH is a range of 16 and 32A surface mounting industrial socket outlets with integrated switch without interlock.

Robust and secure industrial sockets thanks to the use of high performance halogen-free technopolymer enclosures.

Practical thanks to the reversible base and to the extractable socket to facilitate wiring operations.

The unlosable co-molded gasket guarantees a constant seal of the IP protection degree.

 technical sheet p. 740

Technical information

Main characteristics



01 One-piece removable cover

02 Clear indication of open or closed position

03 Screw terminals

04 Padlockable in the ON and OFF position

05 AC23 switch

06 Reversible base

07 External fixing points

08 Threaded cable entries with knockouts to preserve IP degree

■ SURFACE MOUNTING SOCKET OUTLETS - IP44/IP54 >> TOP SWITCH - SCREW TERMINALS



Poles	h	Hz	Volt	Colour	Cable entry	16A	32A
2P+E	6	50 60	200-250	Blue	M25X1,5	513.1653TS ^{1) 3)} 1/6	513.3253TS.A ^{1) 3)} 1/6
	6	50 60	200-250	Blue	M32X1,5		513.3253TS ²⁾ 1/6
3P+E	6	50 60	380-415	Red	M25X1,5	513.1656TS ^{1) 3)} 1/6	513.3256TS.A ^{1) 3)} 1/6
	6	50 60	380-415	Red	M32X1,5		513.3256TS ²⁾ 1/6
3P+N+E	6	50 60	346-415	Red	M25X1,5	513.1657TS ^{1) 3)} 1/6	513.3257TS.A ^{1) 3)} 1/6
	6	50 60	346-415	Red	M32X1,5		513.3257TS ²⁾ 1/6

Rubber threaded cable sleeve included.

¹⁾ Open threaded cable entry.

²⁾ Threaded break-through knock out.

³⁾ Threaded cap/cable sleeve included.



IP: IP44/IP54

■ SURFACE MOUNTING SOCKET OUTLETS - IP66/IP67/IP69 >> TOP SWITCH - SCREW TERMINALS



Poles	h	Hz	Volt	Colour	Cable entry	16A	32A
2P+E	6	50 60	200-250	Blue	M25X1,5	518.1653TS ^{1) 3)} 1/6	518.3253TS.A ^{1) 3)} 1/6
	6	50 60	200-250	Blue	M32X1,5		518.3253TS ²⁾ 1/6
3P+E	6	50 60	380-415	Red	M25X1,5	518.1656TS ^{1) 3)} 1/6	518.3256TS.A ^{1) 3)} 1/6
	6	50 60	380-415	Red	M32X1,5		518.3256TS ²⁾ 1/6
3P+N+E	6	50 60	346-415	Red	M25X1,5	518.1657TS ^{1) 3)} 1/6	518.3257TS.A ^{1) 3)} 1/6
	6	50 60	346-415	Red	M32X1,5		518.3257TS ²⁾ 1/6

¹⁾ Open threaded cable entry.

²⁾ Threaded break-through knock out.

³⁾ Threaded cap/cable sleeve included.



IP: IP66/IP67/IP69

Terminals



screw terminals



1.1 INDUSTRIAL PLUGS AND SOCKETS

Surface mounting socket outlets with switch



OPTIMA-COMBI SWITCH Series


OPTIMA-COMBI SWITCH is a range of surface mounting industrial socket outlets with integrated domestic sockets in the main international standards and switch without interlock.

Available in 16 and 32A versions with fuse as protection of the domestic sockets.

Robust industrial sockets thanks to the use of high performance technopolymer enclosures.

Practical thanks to the use of screw terminals and threaded metric entries or drilling points on the bases.

The unlosable co-molded gasket guarantees a constant seal of the IP protection degree.

 technical sheet p. 740

Technical information

Main characteristics



- 01** One-piece removable cover
- 02** AC23 switch
- 03** Padlockable in the ON and OFF position
- 04** Domestic sockets protection fuse

- 05** Screw terminals
- 06** IP54 domestic socket outlets
- 07** External fixing points
- 08** M32 rubber cable sleeve

■ SURFACE MOUNTING SOCKET OUTLETS - IP44/IP54 >> COMBI SWITCH - SCREW TERMINALS



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	No. of available outlets	Type	16A	32A
2P+E	6	50 60	200-250	Blue	1		513.1653-1FNS 1/6	513.3253-1FFS ¹⁾ 1/6
	6	50 60	200-250	Blue	1		513.1653-1DNS ²⁾ 1/6	513.3253-1DFS ¹⁾²⁾ 1/6
	6	50 60	200-250	Blue	2		513.1653-2FNS 1/6	513.3253-2FFS ¹⁾ 1/6
	6	50 60	200-250	Blue	2		513.1653-2AFS ¹⁾ 1/6	513.3253-2AFS ¹⁾ 1/6
3P+E	6	50 60	200-250	Blue	2		513.1653-2DNS ²⁾ 1/6	513.3253-2DFS ¹⁾²⁾ 1/6
	6	50 60	380-415	Red	1		513.1656-1FNS 1/6	513.3256-1FFS ¹⁾ 1/6
	6	50 60	380-415	Red	1		513.1656-1DNS ²⁾ 1/6	513.3256-1DFS ¹⁾²⁾ 1/6
	6	50 60	380-415	Red	2		513.1656-2FNS 1/6	513.3256-2FFS ¹⁾ 1/6
	6	50 60	380-415	Red	2		513.1656-2AFS ¹⁾ 1/6	513.3256-2AFS ¹⁾ 1/6
	6	50 60	380-415	Red	2		513.1656-2KNS 1/6	
3P+N+E	6	50 60	380-415	Red	2		513.1656-2DNS ²⁾ 1/6	513.3256-2DFS ¹⁾²⁾ 1/6
	6	50 60	346-415	Red	1		513.1657-1FNS 1/6	513.3257-1FFS ¹⁾ 1/6
	6	50 60	346-415	Red	1		513.1657-1DNS ²⁾ 1/6	513.3257-1DFS ¹⁾²⁾ 1/6
	6	50 60	346-415	Red	2		513.1657-2FNS 1/6	513.3257-2FFS ¹⁾ 1/6
	6	50 60	346-415	Red	2		513.1657-2AFS ¹⁾ 1/6	513.3257-2AFS ¹⁾ 1/6
	6	50 60	346-415	Red	2		513.1657-2KNS 1/6	
	6	50 60	346-415	Red	2		513.1657-2DNS ²⁾ 1/6	513.3257-2DFS ¹⁾²⁾ 1/6

Open threaded cable entry.
 Rubber threaded cable sleeve included.
 COMBI version: combining industrial and household sockets.

¹⁾ Household socket protected by 10A fuse [time-delay] (included).
²⁾ Shutterless socket, subject to normative restrictions or prohibitions in Europe or in other geographical areas. Check the national laws prior to using or installing it.

- French standard
 2P+E 16A
- German standard
 2P+E 16A
- Argentinian standard
 2P+E 10A
- Denmark standard
 2P+E 10A

Terminals



screw terminals



1.1 INDUSTRIAL PLUGS AND SOCKETS

Surface mounting socket outlets with switch




OPTIMA-COMBI REVERSE[L-0-R] Series

OPTIMA-COMBI REVERSE[L-0-R] is a range of surface mounting industrial socket outlets with domestic sockets in the main international standards and motor reversing switch integrated. Available in 16A and 32A versions with fuse as protection of the domestic sockets.

The motor reversing switch allows the inversion of the phases sequence of a three-phase motor allowing the easy reversal of the motion direction.

Robust industrial sockets thanks to the use of high performance technopolymer enclosures.

Practical thanks to the use of screw terminals and threaded metric entries or drilling points on the bases.

 technical sheet p. 740

Technical information

Main characteristics



- | | |
|--|--|
| 01 One-piece removable cover | 05 Screw terminals |
| 02 AC23 motor reversing switch | 06 IP54 domestic socket outlets |
| 03 Padlockable in OFF position | 07 External fixing points |
| 04 Domestic sockets protection fuse | 08 M32 rubber cable sleeve |

■ SURFACE MOUNTING SOCKET OUTLETS - IP44/IP54 >> COMBI REVERSE L-0-R - SCREW TERMINALS



IP: IP44/IP54

Poles	h	Hz	Volt	Colour	No. of available outlets	Type	16A	1/6	32A	1/6
3P+E	6	50 60	380-415	■	1		513.1656-1FNR	1/6	513.3256-1FFR ¹⁾	1/6
	6	50 60	380-415	■	1		513.1656-1DNR ²⁾	1/6	513.3256-1DFR ^{1) 2)}	1/6
	6	50 60	380-415	■	2		513.1656-2FNR	1/6	513.3256-2FFR ¹⁾	1/6
	6	50 60	380-415	■	2		513.1656-2DNR ²⁾	1/6	513.3256-2DFR ^{1) 2)}	1/6
3P+N+E	6	50 60	346-415	■	1		513.1657-1FNR	1/6	513.3257-1FFR ¹⁾	1/6
	6	50 60	346-415	■	1		513.1657-1DNR ²⁾	1/6	513.3257-1DFR ^{1) 2)}	1/6
	6	50 60	346-415	■	2		513.1657-2FNR	1/6	513.3257-2FFR ¹⁾	1/6
	6	50 60	346-415	■	2		513.1657-2DNR ²⁾	1/6	513.3257-2DFR ^{1) 2)}	1/6

Open threaded cable entry.
 Rubber threaded cable sleeve included.
 COMBI version: combining industrial and household sockets.
 REVERSE L-0-R: With phase reversing switch.

¹⁾ Household socket protected by 10A fuse [time-delay] (included).

²⁾ Shutterless socket, subject to normative restrictions or prohibitions in Europe or in other geographical areas. Check the national laws prior to using or installing it.



French standard 2P+E 16A



German standard 2P+E 16A

Terminals



screw terminals



1.1 INDUSTRIAL PLUGS AND SOCKETS

Domestic socket outlets



DOMESTIC SOCKET OUTLETS

DOMO SERIES

p. 122

Splashproof domestic socket outlets



DOMOPLUS SERIES

p. 124

Watertight domestic socket outlets with plug inserted



QUICK SERIES

p. 128

Domestic plugs and connectors with rubber body



ACCESSORIES

p. 129

Accessories for domestic socket outlets



1.1 INDUSTRIAL PLUGS AND SOCKETS

Domestic socket outlets



DOMO Series

DOMO is a range of flush or surface mounting domestic socket outlets available in the main Italian and international Standards. Ideal for powering single-phase devices such as drills or small milling machines in industry and services sectors.

The electrical sockets of the DOMO series are suitable for wall mounting using the appropriate boxes or flush mounting on SCAME industrial distribution boards, adapters and cable reels.

technical sheet p. 728

■ FLUSH MOUNTING >> 50X60MM



IP: IP54

Description	Type	Poles	Current	Volt	Code	
FLUSH-MOUNTING SOCKET		2P+E	16A	250	570.2091	10/100
		2P+E	16A	250	570.2591¹⁾	10/100
		2P+E	16A	250	570.2062	10/100
		2P+E	16A	250	570.2062-SW²⁾	10/100
		2P+E	16A	250	570.2081	10/100
		2P+E	16A	250	570.2051	10/100
		2P+E	13A	250	570.2041	10/100
		2P+E	16A	250	570.2071	10/100
		2P+E	10A	250	570.2093	10/100
		2P+E	20A	250	570.2092	10/100
		2P+E	16A	250	570.2561¹⁾	10/100

¹⁾ Shutterless socket, subject to normative restrictions or prohibitions in Europe or in other geographical areas. Check the national laws prior to using or installing it.

²⁾ When plug is inserted a micro-switch is activated and closes the circuit.



570.2001

Accessory used to fix the DOMO Series sockets (50x60 mm) on the side entries of the ENERBOX Series.

FLUSH MOUNTING >> 70X87MM



IP: IP54

Description	Type	Poles	Current	Volt	Code	
FLUSH-MOUNTING SOCKET		2P+E	16A	250	570.4091	10/100
		2P+E	16A	250	570.4091-SW¹⁾	10/100
		2P+E	16A	250	570.4062	10/100
		2P+E	16A	250	570.4062-SW¹⁾	10/100
		2P+E	16A	250	570.4081	10/100
		2P+E	16A	250	570.4051	10/100
		2P+E	13A	250	570.4041	10/100
		2P+E	16A	250	570.4071	10/100
		2P+E	10A	250	570.4093	10/100
		2P+E	20A	250	570.4092	10/100

¹⁾ When plug is inserted a micro-switch is activated and closes the circuit.

SURFACE MOUNTING >> 70X87MM



IP: IP54

Description	Type	Poles	Current	Volt	Code	
SURFACE MOUNTING SOCKET		2P+E	16A	250	570.4191	9/90
		2P+E	16A	250	570.4162	9/90
		2P+E	16A	250	570.4181	9/90
		2P+E	16A	250	570.4151	9/90
		2P+E	13A	250	570.4141	9/90
		2P+E	16A	250	570.4171	9/90
		2P+E	10A	250	570.4193	9/90
			2P+E	20A	250	570.4192

Blank side with drilling point marks.
Rubber cable sleeve included.



French standard
2P+E 16A

German standard
2P+E 16A

Italian standard P17/11
2P+E 16A

Italian standard P30
2P+E 16A

Pluristandard P40
2P+E 16A

British standard
2P+E 13A

Argentinian standard
2P+E 10A

Brazilian standard
2P+E 10A

1.1 INDUSTRIAL PLUGS AND SOCKETS

Domestic socket outlets



DOMOPLUS Series

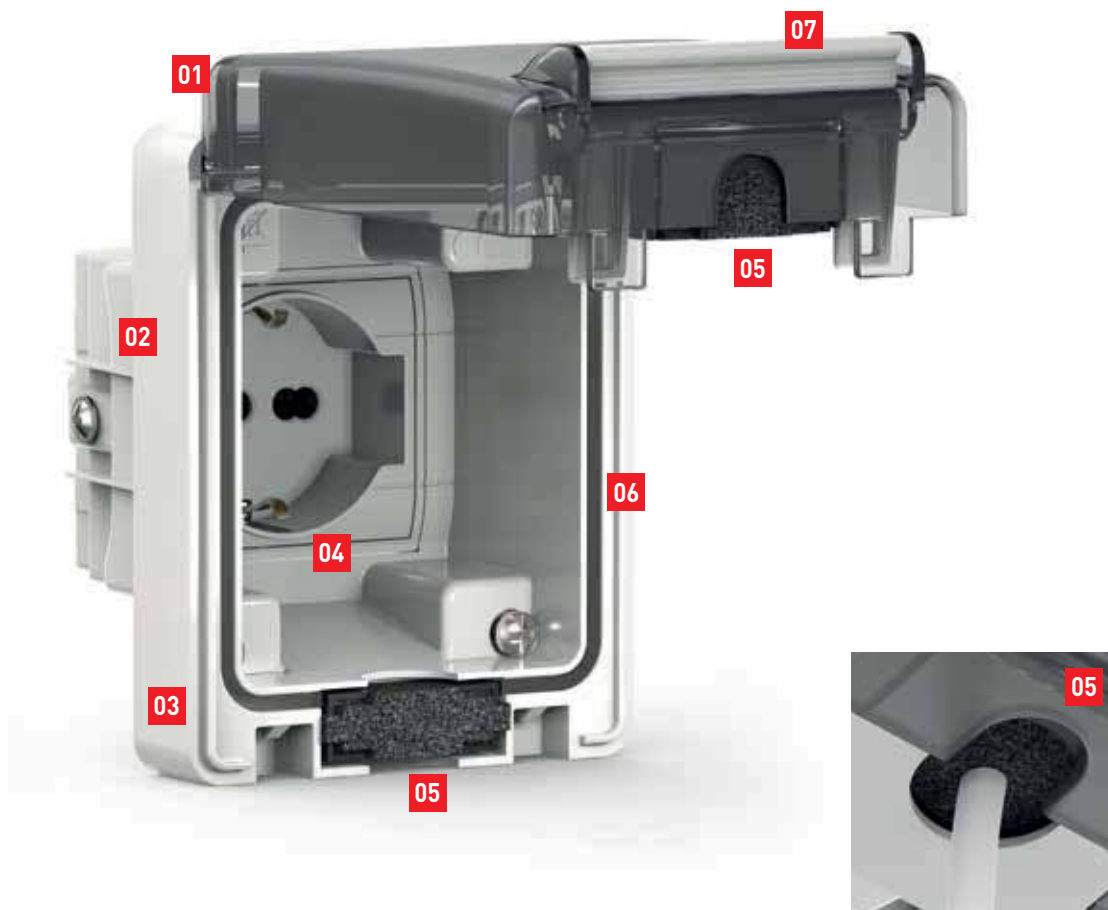
DOMOPLUS is a range of watertight domestic socket outlets rated IP66 index of protection even with plug inserted, available in the main Italian and international standard. Ideal for feeding single-phase devices such as drills and small milling machines in the industrial, services and building construction sectors.

The electrical sockets of the DOMOPLUS Series are suitable for surface mounting using the appropriate box or flush mounting on the SCAME distribution boards.

 technical sheet p. 729

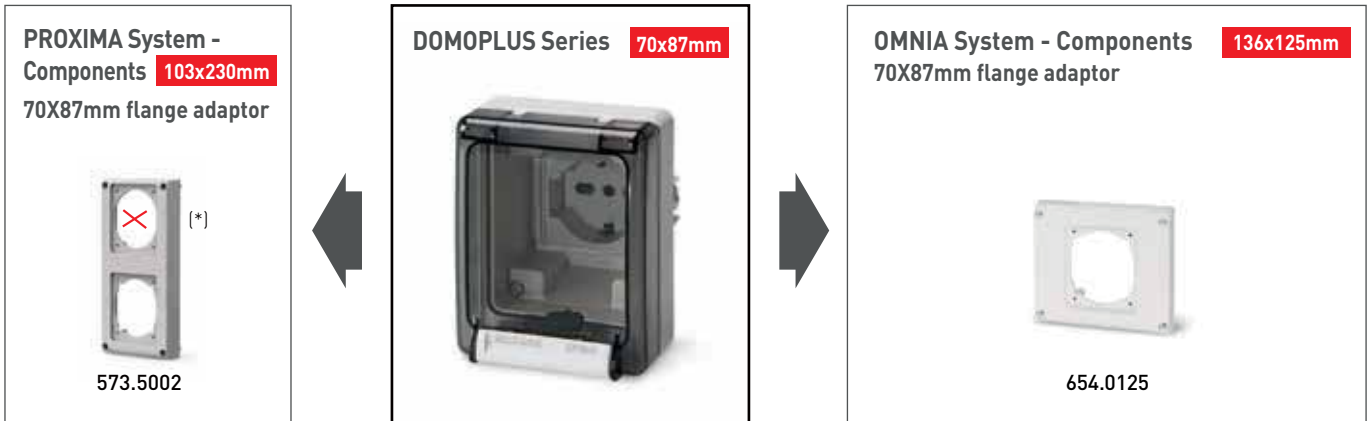
Technical information

Main characteristics



- 01** Tinted polycarbonate cover to view the inside
- 02** Tilting socket frame to facilitate insertion of the various plug configurations (fixed with terminal block for British version)
- 03** Enclosure with reduced protrusion to prevent breakage due to accidental impacts
- 04** Domestic sockets in the main international standards
- 05** Cable sleeve gaskets to maintain the IP66 degree of protection even with the plug inserted
- 06** Unlosable gasket to preserve the IP degree of protection
- 07** Cover fitted with wing to facilitate opening and closing operations

Compatibility



PROXIMA System

573.5100 573.5110

573.5120 573.5130

573.5111 573.5121

573.5131

573.5351 573.5381

DOMINO IP66 Series

672.1301 672.1300 672.2300 672.3300

672.4316 672.5616 672.5822

BLOCK Series

632.1500-000 632.1530-000 632.3500-000 (*) 632.3520-000 (*)

632.3501-000 632.4500-000 632.4520-000

632.4530-000 632.5520-000 632.5500-000 (*)

ENERBOX Series

633.1013 633.2024 633.1011 633.2021

MBOX Series

MBOX2

656.0026-000 656.0926-000

MBOX3

657.0038-000 657.0938-000

657.0039-000 657.0939-000

DOMINO IP66 Series

672.1200 672.2200 672.3200 672.4216

672.5316 672.5416 672.5522 672.5622

OMNIA System

572.0200 572.0205 572.0310 572.0322

572.0312 572.0314 572.0316 572.0311

572.0313 572.0315

MBOX Series

MBOX2

656.0024-000 656.0924-000

MBOX3

657.0035-000 657.0935-000

657.0036-000 657.0936-000

657.0037-000 657.0937-000

MBOX5

658.0050-000 658.0051-000

658.0950-000 658.0951-000

(*) cannot be installed in the indicated position.



Domestic socket outlets

■ FLUSH MOUNTING 70X87MM



IP: IP66

Description	Type	Poles	Current	Volt	Code	
RJ45 OUTLET					570.6481.60 ¹⁾	12
GERMAN STANDARD SOCKET		2P+E	16A	250	570.6407	12
ITALIAN P30 STANDARD SOCKET		2P+E	16A	250	570.6404	12
ITALIAN P40 STANDARD SOCKET		2P+E	16A	250	570.6405	12
SINGLE UNSWITCHED SOCKET		2P+E	15A	250	570.6414	12
		2P+E	13A	250	570.6413	12
ITALIAN P17/11 STANDARD SOCKET		2P+E	16A	250	570.6403	12
FRENCH STANDARD SOCKET		2P+E	16A	250	570.6411	12
ARGENTINIAN STANDARD SOCKET		2P+E	10A	250	570.6424	12
		2P+E	20A	250	570.6426	12
NEOZELANDER STANDARD SOCKET		2P+E	10A	250	570.6427	12
SOUTH AFRICAN STANDARD SOCKET		2P+E	16A	250	570.6428	12
SWISS STANDARD SOCKET		2P+E	10A	250	570.6417	12
INDIAN STANDARD SOCKET		2P+E	6A 16A	250	570.6429	12
BRAZILIAN STANDARD SOCKET		2P+E	10A	250	570.6421	12


Not suitable for surface mounting boxes DOM0 Series.

Suitable for OMNIA-DOMINO-ADAPTO-BLOCK-MBOX Series distribution assemblies.

¹⁾ RJ45 - Cat.6.French standard
2P+E 16AGerman standard
2P+E 16AItalian standard P17/11
2P+E 16AItalian standard P30
2P+E 16APluristandard P40
2P+E 16ABritish standard
2P+E 13ABritish standard
2P+E 15ASwiss standard
2P+E 10AArgentinian standard
2P+E 10ABrazilian standard
2P+E 10ANew Zealand standard
2P+E 10ASouth African standard
2P+E 16AIndian standard
2P+E 6A-16A


■ ACCESSORIES



Description	Flange	Dimensions	IP	Code	
ENCLOSURE	70X87MM	70x87mm	IP66	570.6001	12

Not suitable for surface mounting boxes DOMO Series.
 Suitable for OMNIA-DOMINO-ADAPTO-BLOCK-MBOX Series distribution assemblies.
 Empty enclosure.
 Accepts SCAME EVOLUTION Series inserts.



Description	Flange	Dimensions	IP	Code	
PANEL MOUNTING ADAPTOR		127x104mm	IP66	570.6011	5



DOMESTIC SOCKET OUTLETS
DOMOPLUS SERIES

1.1 INDUSTRIAL PLUGS AND SOCKETS

Domestic socket outlets



QUICK Series

QUICK is a range of German and French Standard mobile electrical plugs and sockets with IP44 degree of protection, resistant to impact thanks to the black rubber bodies. The English Standards plugs, made of thermoplastic material, complete the offer.

technical sheet p. 880

■ DOMESTIC PLUGS AND CONNECTORS WITH RUBBER BODY



Description	Standard	Current	Poles	Colour	Code	
CONNECTOR		16A	2P+E	■	110.3160	10/150



Description	Standard	Current	Poles	Colour	Code	
CONNECTOR		16A	2P+E	■	110.3150	10/150



Description	Standard	Current	Poles	Colour	Code	
PLUG		16A	2P+E	■	110.3100	10/150



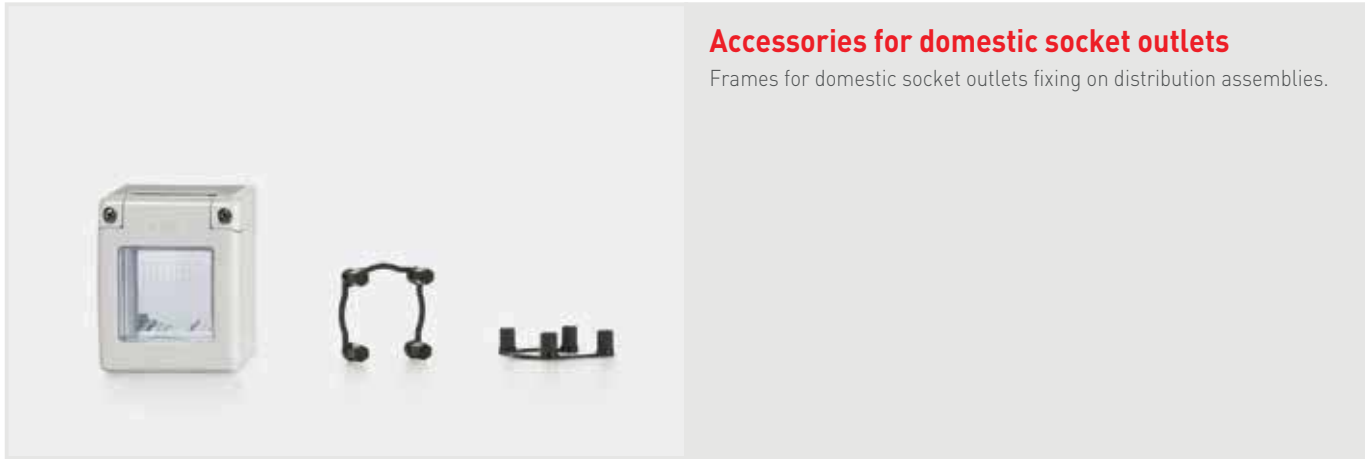
French standard
2P+E 16A



German standard
2P+E 16A



French/ German standard
2P+E 16A



Accessories for domestic socket outlets

Frames for domestic socket outlets fixing on distribution assemblies.

■ WATERTIGHT COVER



Description	Flange	IP	Notes	Code	
CABINET FIXING	50X60MM		COUPLE	570.2001	10/100



Description	Flange	IP	Notes	Code	
FLUSH MOUNTING FRAME	70X87MM	IP55	B-TICINO MODULES	570.5012	10/100

Modules snap into place.

Manufactured with the authorization from Bticino spa company and is suitable to house "Living International", "Luna", "Light" and "Light Tech" modules which are registered trademarks owned by Bticino.



Description	Flange	IP	Notes	Code	
FLUSH MOUNTING FRAME	70X87MM	IP55	EVOLUTION MODULES	570.5052	10/100

Modules snap into place.

1.1 INDUSTRIAL PLUGS AND SOCKETS

Accessories for plugs and sockets





ACCESSORIES FOR PLUGS AND SOCKETS

ACCESSORIES FOR PLUGS

p. 132

Accessories for installation and protection

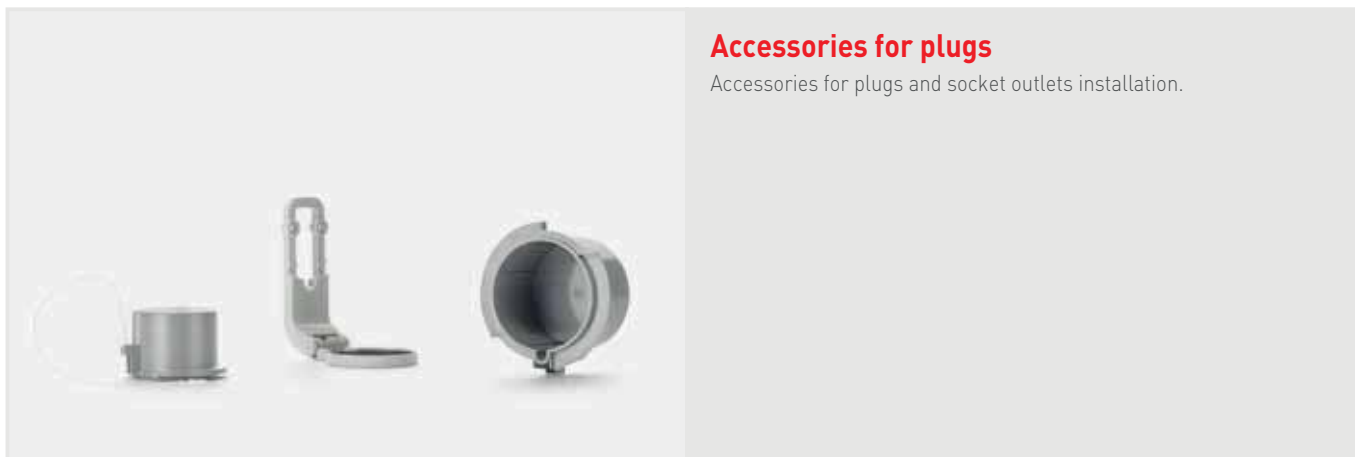


ACCESSORIES FOR SOCKETS

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Accessories for installation and protection






Accessories for plugs

Accessories for plugs and socket outlets installation.

COVER FOR IP44/IP54 INLETS




Description	IP	Current	Poles	Code	
APPLIANCE INLET	IP44/IP54	16A	2/3P+E	570.9001	5/50
COVER	IP44/IP54	16A 32A	ALL	570.9002	5/50

Only for surface mounting inlets

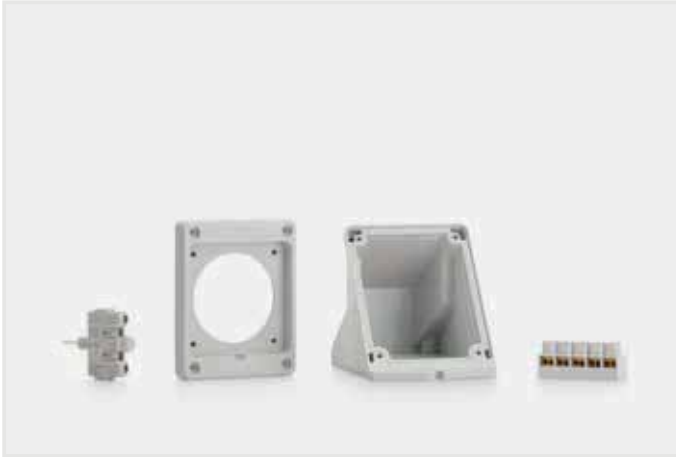
COVERS



Description	IP	Current	Poles	Code	
PLUG CAP	IP66/IP67/IP69	16A 20A	2P+E	570.90163	10/100
	IP66/IP67/IP69	16A 20A	3P+E	570.90164	10/100
	IP66/IP67/IP69	16A 20A	3P+N+E	570.90165	10/100
	IP66/IP67/IP69	30A 32A	3P+N+E	570.90325	10/100
	IP66/IP67/IP69	30A 32A	2/3P+E	570.90324	10/100
	IP66/IP67/IP69	60A 63A	ALL	570.9063	10
	IP66/IP67/IP69	100A 125A	ALL	570.9125	10

Accessories for sockets

Accessories for plugs and socket outlets installation.



BOXES >> SURFACE MOUNTING BOXES - ANGLED



Description	IP	Current	Cable entry	Code	
SURFACE MOUNTING BOX	IP66/IP67/IP69	16A	DRILLING POINT MARK	570.0116 ^{3) 4) 5)}	10
	IP66/IP67/IP69	16A	M20X1,5	570.0116.20 ^{1) 2) 5)}	10
	IP66/IP67/IP69	16A	M25X1,5	570.0116.25 ^{1) 2) 5)}	10
	IP66/IP67/IP69	32A	DRILLING POINT MARK	570.0132 ^{3) 4)}	10
	IP66/IP67/IP69	32A	M32X1,5	570.0132.32 ^{1) 2)}	10
	IP66/IP67/IP69	63A	M40X1,5	570.M0163 ^{1) 2)}	6
	IP66/IP67/IP69	125A	M63X1,5	570.M0125 ^{1) 2)}	6

Suitable for the sealing caps.
 Supplied with socket fastening screws.

- ¹⁾ Open threaded cable entry.
- ²⁾ Threaded cap/cable sleeve included.
- ³⁾ Blank side with drilling point marks.
- ⁴⁾ Rubber cable sleeve included.
- ⁵⁾ Not suitable for DOMOPLUS Series.

BOXES >> SURFACE MOUNTING BOXES - STRAIGHT




Description	IP	Current	Cable entry	Code	
SURFACE MOUNTING BOX	IP66/IP67/IP69	16A	DRILLING POINT MARK	570.0016 ¹⁾	10/100
	IP66/IP67/IP69	32A	DRILLING POINT MARK	570.0032	10

Blank side with drilling point marks.
 Rubber cable sleeve included.
 Suitable for the sealing caps.
 Supplied with socket fastening screws.

- ¹⁾ Not suitable for DOMOPLUS Series.

■ KIT >> FLANGE ADAPTER




Description	Flange	IP	Notes	Code	
FLANGE ADAPTER	84X106MM	IP66	84x106 --> 75x75	654.0108	1/5

With gasket.

■ KIT >> KIT MICRO-SWITCH (SUITABLE FOR OPTIMA SERIES)



Description	Notes	Code	
MICROSWITCH KIT	16/32A NC	654.0392	10
	16/32A NO	654.0391	10
	63/125A NC	654.0394	10
	63/125A NO	654.0393	10

Suited for flush mounting angled outlet versions only.
For inserted plug detection.

■ KIT >> KIT ACCESSORIES FOR PLUGS AND SOCKETS







Description	Poles	Notes	Code	
TERMINAL BLOCKS LOOP IN/OUT	5P	6mm ²	654.0382	10/100

For 5-pole OPTIMA-TOP executions.

■ KIT >> KIT ACCESSORIES FOR PLUGS AND SOCKETS



Description	IP	Thread	Colour	Code	
THREADED CABLE SLEEVE	IP55	M20X1,5		805.5020	100/1.000
	IP55	M25X1,5		805.5025	100/1.000
	IP55	M32X1,5		805.5032	100/1.000



1.1 INDUSTRIAL PLUGS AND SOCKETS

Plugs and sockets for specific applications



PLUGS AND SOCKETS FOR SPECIFIC APPLICATIONS

IEC309 SERIES

p. 138

Extra low voltage industrial plugs and sockets outlets <50V



OPTIMA-MIL SERIES

p. 144

Fast wiring industrial connectors for military sector



Applications: Military

EUREKA-HD[UL] SERIES

p. 148

Industrial plugs and socket outlets UL/CSA listed



OPTIMA-SEVEN SERIES

p. 159

7 poles industrial plugs and socket outlets



Applications: Construction site

1.1 INDUSTRIAL PLUGS AND SOCKETS

Plugs and sockets for specific applications

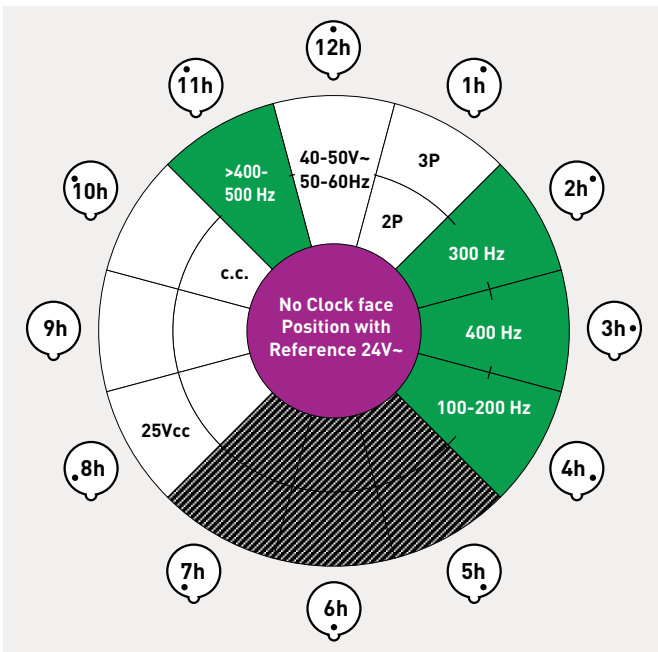


IEC309 Series

IEC309 is a range of industrial plugs and sockets for mobile, surface or flush mounting installation for very low voltage applications of less than 50V. Functional thanks to the adoption of screw terminals.

Technical information

CLOCK FACE POSITION - IEC RATINGS

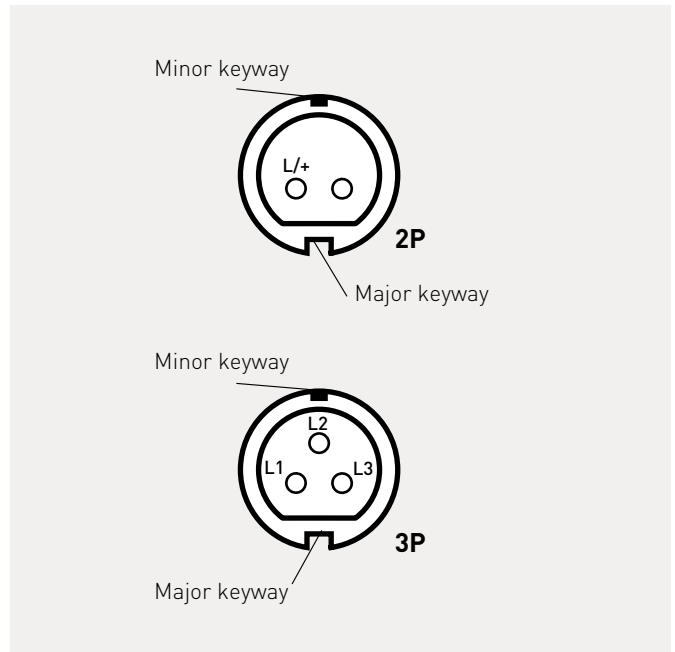


Clock diagram

No clock face position with Reference 24V~.

Clock face position (h) of the minor keyway of extra-low voltage (<50V) industrial plugs and sockets to IEC 60309-2 for different applications (polarity, voltage, frequency, current).

SOCKET (FRONT VIEW)



Clock face position

Viewing the socket from the front, the clock face position (h) is established by observing the position of the minor keyway with respect to the major keyway, which is always situated at 6 o'clock. The different voltages are identified by conventional colour codes.

Synoptic table of standard industrial plugs and sockets to IEC 60309-2

RATED OPERATING VOLTAGE <50V~ (ELV)

Poles	Frequency Hz	Rated operating voltage V	Minor keyway clock face position (h) 16A and 32A without reference	Colour code
2P	50 and 60	20÷25	without ref.	
	50 and 60	40÷50	12	
	100÷200	20÷25 and 40÷50	4	¹⁾
	300	20÷25 and 40÷50	2	¹⁾
	400	20÷25 and 40÷50	3	¹⁾
	>400÷500	20÷25 and 40÷50	11	¹⁾
	c.c.	20÷25 and 40÷50	10	
3P	50 and 60	20÷25	without ref.	
	50 and 60	40÷50	12	
	100÷200	20÷25 and 40÷50	4	¹⁾
	300	20÷25 and 40÷50	2	¹⁾
	400	20÷25 and 40÷50	3	¹⁾
	>400÷500	20÷25 and 40÷50	11	¹⁾
	c.c.	25	8	²⁾

¹⁾ Combinations of green with the colour of the rated operating voltage can be used to identify frequencies >60÷500Hz.

²⁾ Portable electric incubators. Use at 12 Vd.c. or 24 Vd.c. on ambulances or helicopters.

Applications examples



Shipyard



Building construction site



Airport



INDUSTRIAL PLUGS AND SOCKETS

Plugs and sockets for specific applications

IEC309 SERIES - PLUGS AND CONNECTORS >> PLUGS - IP44



IP: IP44

Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		230.1600	10/100	230.3200	10/100
	2	300	20-25 40-50		230.16012	10/100	230.32012	10/100
	3	400	20-25 40-50		230.16014	10/100	230.32014	10/100
	4	100-200	20-25 40-50		230.16010	10/100	230.32010	10/100
	10	DC	20-25 40-50		230.1602	10/100	230.3202	10/100
	11	>400-500	20-25 40-50		230.16015	10/100	230.32015	10/100
3P	12	50 60	40-50		230.1601	10/100	230.3201	10/100
		50 60	20-25		230.1604	10/100	230.3204	10/100
	2	300	20-25 40-50		230.16032	10/100	230.32032	10/100
	3	400	20-25 40-50		230.16034	10/100	230.32034	10/100
	4	100-200	20-25 40-50		230.16030	10/100	230.32030	10/100
	11	>400-500	20-25 40-50		230.16035	10/100	230.32035	10/100
	12	50 60	40-50		230.1603	10/100	230.3203	10/100

IEC309 SERIES - PLUGS AND CONNECTORS >> CONNECTORS - IP44



IP: IP44

Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		330.1605	10/100	330.3205	10/100
	2	300	20-25 40-50		330.16062	10/100	330.32062	10/100
	3	400	20-25 40-50		330.16064	10/100	330.32064	10/100
	4	100-200	20-25 40-50		330.16060	10/100	330.32060	10/100
	10	DC	20-25 40-50		330.1607	10/100	330.3207	10/100
	11	>400-500	20-25 40-50		330.16065	10/100	330.32065	10/100
3P	12	50 60	40-50		330.1606	10/100	330.3206	10/100
		50 60	20-25		330.1609	10/100	330.3209	10/100
	2	300	20-25 40-50		330.16082	10/100	330.32082	10/100
	3	400	20-25 40-50		330.16084	10/100	330.32084	10/100
	4	100-200	20-25 40-50		330.16080	10/100	330.32080	10/100
	11	>400-500	20-25 40-50		330.16085	10/100	330.32085	10/100
	12	50 60	40-50		330.1608	10/100	330.3208	10/100

IEC309 SERIES - PLUGS AND CONNECTORS >> PLUGS - IP66/IP67



IP: IP66/IP67

Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		235.1600	10/100	235.3200	10/100
	2	300	20-25 40-50		235.16012	10/100	235.32012	10/100
	3	400	20-25 40-50		235.16014	10/100	235.32014	10/100
	4	100-200	20-25 40-50		235.16010	10/100	235.32010	10/100
	10	DC	20-25 40-50		235.1602	10/100	235.3202	10/100
	11	>400-500	20-25 40-50		235.16015	10/100	235.32015	10/100
3P	12	50 60	40-50		235.1601	10/100	235.3201	10/100
		50 60	20-25		235.1604	10/100	235.3204	10/100
	2	300	20-25 40-50		235.16032	10/100	235.32032	10/100
	3	400	20-25 40-50		235.16034	10/100	235.32034	10/100
	4	100-200	20-25 40-50		235.16030	10/100	235.32030	10/100
	11	>400-500	20-25 40-50		235.16035	10/100	235.32035	10/100
	12	50 60	40-50		235.1603	10/100	235.3203	10/100

■ IEC309 SERIES - PLUGS AND CONNECTORS >> CONNECTORS - IP66/IP67



IP: IP66/IP67

Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		335.1605	10/100	335.3205	10/50
	2	300	20-25 40-50		335.16062	10/100	335.32062	10/50
	3	400	20-25 40-50		335.16064	10/100	335.32064	10/50
	4	100-200	20-25 40-50		335.16060	10/100	335.32060	10/50
	10	DC	20-25 40-50		335.1607	10/100	335.3207	10/50
	11	>400-500	20-25 40-50		335.16065	10/100	335.32065	10/50
	12	50 60	40-50		335.1606	10/100	335.3206	10/50
3P		50 60	20-25		335.1609	10/100	335.3209	10/50
	2	300	20-25 40-50		335.16082	10/100	335.32082	10/50
	3	400	20-25 40-50		335.16084	10/100	335.32084	10/50
	4	100-200	20-25 40-50		335.16080	10/100	335.32080	10/50
	11	>400-500	20-25 40-50		335.16085	10/100	335.32085	10/50
	12	50 60	40-50		335.1608	10/100	335.3208	10/50



PLUGS AND SOCKETS FOR SPECIFIC APPLICATIONS
IEC309 SERIES

■ IEC309 SERIES - FLUSH MOUNTING SOCKET OUTLETS >> FLUSH MOUNTING SOCKET OUTLETS - ANGLED OUTLET - IP44



IP: IP44

Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		430.1615	10/100	430.3215	10/100
	2	300	20-25 40-50		430.16162	10/100	430.32162	10/100
	3	400	20-25 40-50		430.16164	10/100	430.32164	10/100
	4	100-200	20-25 40-50		430.16160	10/100	430.32160	10/100
	10	DC	20-25 40-50		430.1617	10/100	430.3217	10/100
	11	>400-500	20-25 40-50		430.16165	10/100	430.32165	10/100
	12	50 60	40-50		430.1616	10/100	430.3216	10/100
3P		50 60	20-25		430.1619	10/100	430.3219	10/100
	2	300	20-25 40-50		430.16182	10/100	430.32182	10/100
	3	400	20-25 40-50		430.16184	10/100	430.32184	10/100
	4	100-200	20-25 40-50		430.16180	10/100	430.32180	10/100
	11	>400-500	20-25 40-50		430.16185	10/100	430.32185	10/100
	12	50 60	40-50		430.1618	10/100	430.3218	10/100

■ IEC309 SERIES - FLUSH MOUNTING SOCKET OUTLETS >> FLUSH MOUNTING SOCKET OUTLETS - STRAIGHT OUTLET - IP44



IP: IP44

Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		430.1615/R	10/100	430.3215/R	10/100
	2	300	20-25 40-50		430.16162/R	10/100	430.32162/R	10/100
	3	400	20-25 40-50		430.16164/R	10/100	430.32164/R	10/100
	4	100-200	20-25 40-50		430.16160/R	10/100	430.32160/R	10/100
	10	DC	20-25 40-50		430.1617/R	10/100	430.3217/R	10/100
	11	>400-500	20-25 40-50		430.16165/R	10/100	430.32165/R	10/100
	12	50 60	40-50		430.1616/R	10/100	430.3216/R	10/100
3P		50 60	20-25		430.1619/R	10/100	430.3219/R	10/100
	2	300	20-25 40-50		430.16182/R	10/100	430.32182/R	10/100
	3	400	20-25 40-50		430.16184/R	10/100	430.32184/R	10/100
	4	100-200	20-25 40-50		430.16180/R	10/100	430.32180/R	10/100
	11	>400-500	20-25 40-50		430.16185/R	10/100	430.32185/R	10/100
	12	50 60	40-50		430.1618/R	10/100	430.3218/R	10/100

INDUSTRIAL PLUGS AND SOCKETS

Plugs and sockets for specific applications

■ IEC309 SERIES - FLUSH MOUNTING SOCKET OUTLETS >> FLUSH MOUNTING SOCKET OUTLETS - ANGLED OUTLET - IP66/IP67



IP: IP66/IP67

Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		435.1615	10/100	435.3215	10/100
	2	300	20-25 40-50		435.16162	10/100	435.32162	10/100
	3	400	20-25 40-50		435.16164	10/100	435.32164	10/100
	4	100-200	20-25 40-50		435.16160	10/100	435.32160	10/100
	10	DC	20-25 40-50		435.1617	10/100	435.3217	10/100
	11	>400-500	20-25 40-50		435.16165	10/100	435.32165	10/100
3P	12	50 60	40-50		435.1616	10/100	435.3216	10/100
		50 60	20-25		435.1619	10/100	435.3219	10/100
	2	300	20-25 40-50		435.16182	10/100	435.32182	10/100
	3	400	20-25 40-50		435.16184	10/100	435.32184	10/100
	4	100-200	20-25 40-50		435.16180	10/100	435.32180	10/100
	11	>400-500	20-25 40-50		435.16185	10/100	435.32185	10/100
	12	50 60	40-50		435.1618	10/100	435.3218	10/100

■ IEC309 SERIES - FLUSH MOUNTING SOCKET OUTLETS >> FLUSH MOUNTING SOCKET OUTLETS - STRAIGHT OUTLET - IP66/IP67



IP: IP66/IP67

Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		435.1615/R	10/100	435.3215/R	10/100
	2	300	20-25 40-50		435.16162/R	10/100	435.32162/R	10/100
	3	400	20-25 40-50		435.16164/R	10/100	435.32164/R	10/100
	4	100-200	20-25 40-50		435.16160/R	10/100	435.32160/R	10/100
	10	DC	20-25 40-50		435.1617/R	10/100	435.3217/R	10/100
	11	>400-500	20-25 40-50		435.16165/R	10/100	435.32165/R	10/100
3P	12	50 60	40-50		435.1616/R	10/100	435.3216/R	10/100
		50 60	20-25		435.1619/R	10/100	435.3219/R	10/100
	2	300	20-25 40-50		435.16182/R	10/100	435.32182/R	10/100
	3	400	20-25 40-50		435.16184/R	10/100	435.32184/R	10/100
	4	100-200	20-25 40-50		435.16180/R	10/100	435.32180/R	10/100
	11	>400-500	20-25 40-50		435.16185/R	10/100	435.32185/R	10/100
	12	50 60	40-50		435.1618/R	10/100	435.3218/R	10/100

■ IEC309 SERIES - SURFACE MOUNTING SOCKET OUTLETS >> SURFACE MOUNTING SOCKET OUTLETS - STRAIGHT BOX - IP44



IP: IP44

Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		530.1610	10/50	530.3210	10/50
	2	300	20-25 40-50		530.16112	10/50	530.32112	10/50
	3	400	20-25 40-50		530.16114	10/50	530.32114	10/50
	4	100-200	20-25 40-50		530.16110	10/50	530.32110	10/50
	10	DC	20-25 40-50		530.1612	10/50	530.3212	10/50
	11	>400-500	20-25 40-50		530.16115	10/50	530.32115	10/50
3P	12	50 60	40-50		530.1611	10/50	530.3211	10/50
		50 60	20-25		530.1614	10/50	530.3214	10/50
	2	300	20-25 40-50		530.16132	10/50	530.32132	10/50
	3	400	20-25 40-50		530.16134	10/50	530.32134	10/50
	4	100-200	20-25 40-50		530.16130	10/50	530.32130	10/50
	11	>400-500	20-25 40-50		530.16135	10/50	530.32135	10/50
	12	50 60	40-50		530.1613	10/50	530.3213	10/50

Blank side with drilling point marks.
Rubber cable sleeve included.

■ IEC309 SERIES - SURFACE MOUNTING SOCKET OUTLETS >> SURFACE MOUNTING SOCKET OUTLETS - ANGLED BOX - IP44



IP: IP44

Poles	h	Hz	Volt	Colour	16A	10/50	32A	10/50
2P		50 60	20-25	■	530.01610	10/50	530.03210	10/50
	2	300	20-25 40-50	■	530.016112	10/50	530.032112	10/50
	3	400	20-25 40-50	■	530.016114	10/50	530.032114	10/50
	4	100-200	20-25 40-50	■	530.016110	10/50	530.032110	10/50
	10	DC	20-25 40-50	□	530.01612	10/50	530.03212	10/50
	11	>400-500	20-25 40-50	■	530.016115	10/50	530.032115	10/50
3P	12	50 60	40-50	□	530.01611	10/50	530.03211	10/50
		50 60	20-25	■	530.01614	10/50	530.03214	10/50
	2	300	20-25 40-50	■	530.016132	10/50	530.032132	10/50
	3	400	20-25 40-50	■	530.016134	10/50	530.032134	10/50
	4	100-200	20-25 40-50	■	530.016130	10/50	530.032130	10/50
	11	>400-500	20-25 40-50	■	530.016135	10/50	530.032135	10/50
12	50 60	40-50	□	530.01613	10/50	530.03213	10/50	

Open threaded cable entry.
Threaded cap/cable sleeve included.

■ IEC309 SERIES - SURFACE MOUNTING SOCKET OUTLETS >> SURFACE MOUNTING SOCKET OUTLETS - STRIGHT BOX - IP66/IP67



IP: IP66/IP67

Poles	h	Hz	Volt	Colour	16A	10/50	32A	10/50
2P		50 60	20-25	■	535.1610	10/50	535.3210	10/50
	2	300	20-25 40-50	■	535.16112	10/50	535.32112	10/50
	3	400	20-25 40-50	■	535.16114	10/50	535.32114	10/50
	4	100-200	20-25 40-50	■	535.16110	10/50	535.32110	10/50
	10	DC	20-25 40-50	□	535.1612	10/50	535.3212	10/50
	11	>400-500	20-25 40-50	■	535.16115	10/50	535.32115	10/50
3P	12	50 60	40-50	□	535.1611	10/50	535.3211	10/50
		50 60	20-25	■	535.1614	10/50	535.3214	10/50
	2	300	20-25 40-50	■	535.16132	10/50	535.32132	10/50
	3	400	20-25 40-50	■	535.16134	10/50	535.32134	10/50
	4	100-200	20-25 40-50	■	535.16130	10/50	535.32130	10/50
	11	>400-500	20-25 40-50	■	535.16135	10/50	535.32135	10/50
12	50 60	40-50	□	535.1613	10/50	535.3213	10/50	

Blank side with drilling point marks.
Rubber cable sleeve included.

■ IEC309 SERIES - SURFACE MOUNTING SOCKET OUTLETS >> SURFACE MOUNTING SOCKET OUTLETS - ANGLED BOX - IP66/IP67



IP: IP66/IP67

Poles	h	Hz	Volt	Colour	16A	10/50	32A	10/50
2P		50 60	20-25	■	535.01610	10/50	535.03210	10/50
	2	300	20-25 40-50	■	535.016112	10/50	535.032112	10/50
	3	400	20-25 40-50	■	535.016114	10/50	535.032114	10/50
	4	100-200	20-25 40-50	■	535.016110	10/50	535.032110	10/50
	10	DC	20-25 40-50	□	535.01612	10/50	535.03212	10/50
	11	>400-500	20-25 40-50	■	535.016115	10/50	535.032115	10/50
3P	12	50 60	40-50	□	535.01611	10/50	535.03211	10/50
		50 60	20-25	■	535.01614	10/50	535.03214	10/50
	2	300	20-25 40-50	■	535.016132	10/50	535.032132	10/50
	3	400	20-25 40-50	■	535.016134	10/50	535.032134	10/50
	4	100-200	20-25 40-50	■	535.016130	10/50	535.032130	10/50
	11	>400-500	20-25 40-50	■	535.016135	10/50	535.032135	10/50
12	50 60	40-50	□	535.01613	10/50	535.03213	10/50	

Open threaded cable entry.
Threaded cap/cable sleeve included.



PLUGS AND SOCKETS FOR SPECIFIC APPLICATIONS
IEC309 SERIES

1.1 INDUSTRIAL PLUGS AND SOCKETS

Plugs and sockets for specific applications



OPTIMA-MIL Series

OPTIMA-MIL is a complete range of industrial plugs and socket outlets from 16 up to 125A in military green color, with NCAGE registration.

Robust and safe thanks to the use of high performance halogen-free technopolymer enclosures and to the external cable gland with cable clamp function in the mobile versions.

Functional thanks to the adoption of screw terminals.

The efficiency of the contacts over time is guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging.

Fast to wire thanks to the opening of the body by means of a snap-on steel spring mechanism.

Technical information

Main characteristics



01 Unlosable co-moulded gasket

02 Ultra smooth anti-corrosion nickel-plated brass pins

03 2 different types of terminals: screw (16A-32A) or mantle (63A-125A)

04 Snap-on device with stainless steel spring to speed up cabling operations

05 Military green body with Nato Ncage registration

06 Body in halogen-free materials, with high mechanical and UV ray resistance

07 Tulip external cable clamp with cable gland function

■ OPTIMA-MIL SERIES - IP67 >> PLUGS



Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	6	50 60	200-250		218.1633.MIL	40	218.3233.MIL	40
3P+E	6	50 60	380-415		218.1636.MIL	40	218.3236.MIL	40
3P+N+E	6	50 60	346-415		218.1637.MIL	40	218.3237.MIL	40



IP: IP66/IP67/IP69



Poles	h	Hz	Volt	Colour	63A		125A	
2P+E	6	50 60	200-250		218.6333.MIL	24	218.12533.MIL	8
3P+E	6	50 60	380-415		218.6336.MIL	24	218.12536.MIL	8
3P+N+E	6	50 60	346-415		218.6337.MIL	24	218.12537.MIL	8

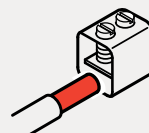


IP: IP66/IP67/IP69

Terminals



screw terminals



mantle terminals



Optimal connections for high currents



INDUSTRIAL PLUGS AND SOCKETS

Plugs and sockets for specific applications

■ OPTIMA-MIL SERIES - IP67 >> APPLIANCE INLETS - STRAIGHT OUTLET



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	6	50 60	200-250		248.1693.MIL	50	248.3293.MIL	50
3P+E	6	50 60	380-415		248.1696.MIL	50	248.3296.MIL	50
3P+N+E	6	50 60	346-415		248.1697.MIL	50	248.3297.MIL	40



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	63A		125A	
2P+E	6	50 60	200-250		248.6393.MIL	10	248.12593.MIL	10
3P+E	6	50 60	380-415		248.6396.MIL	10	248.12596.MIL	10
3P+N+E	6	50 60	346-415		248.6397.MIL	10	248.12597.MIL	10

■ OPTIMA-MIL SERIES - IP67 >> STRAIGHT CONNECTORS



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	6	50 60	200-250		318.1643.MIL	40	318.3243.MIL	40
3P+E	6	50 60	380-415		318.1646.MIL	40	318.3246.MIL	40
3P+N+E	6	50 60	346-415		318.1647.MIL	40	318.3247.MIL	40



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	63A		125A	
2P+E	6	50 60	200-250		318.6343.MIL	24	318.12543.MIL	8
3P+E	6	50 60	380-415		318.6346.MIL	24	318.12546.MIL	8
3P+N+E	6	50 60	346-415		318.6347.MIL	24	318.12547.MIL	8

■ OPTIMA-MIL SERIES - IP67 >> PANEL MOUNTING SOCKETS OUTLETS - STRAIGHT OUTLET



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	6	50 60	200-250		428.1663.MIL	100	428.3263.MIL	50
3P+E	6	50 60	380-415		428.1666.MIL	100	428.3266.MIL	50
3P+N+E	6	50 60	346-415		428.1667.MIL	100	428.3267.MIL	50



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	63A		125A	
2P+E	6	50 60	200-250		428.6363.MIL	6/30	428.12563.MIL	10
3P+E	6	50 60	380-415		428.6366.MIL	6/30	428.12566.MIL	10
3P+N+E	6	50 60	346-415		428.6367.MIL	6/30	428.12567.MIL	10

■ OPTIMA-MIL SERIES - IP67 >> ADAPTORS



IP: IP66

Poles	Hz	Volt	Colour	16A	
2P+E	50 60	230		603.3505-062.MIL	1/10

Zinc-plated steel carrying handle.
Equipped with PG21 cable gland, cable clamp and terminal block.



1.1 INDUSTRIAL PLUGS AND SOCKETS

Plugs and sockets for specific applications



EUREKA-HD[UL] Series

EUREKA-HD[UL] is a complete range, from 20 to 100A, of UL/CSA listed industrial plugs (pin) and socket outlets (sleeve) for the North American market and countries where the UL standard is recognized. Sturdy and safe industrial plugs and sockets thanks to the use of thermoplastic bodies with outstanding resistance to impacts, chemicals and atmospheric agents. Quick to wire thanks to the opening of the body by means of a snap-on steel spring mechanism and to the locking of the cable through an external cable clamp. Practical thanks to the use of screw terminals.

technical sheet p. 732

Technical information

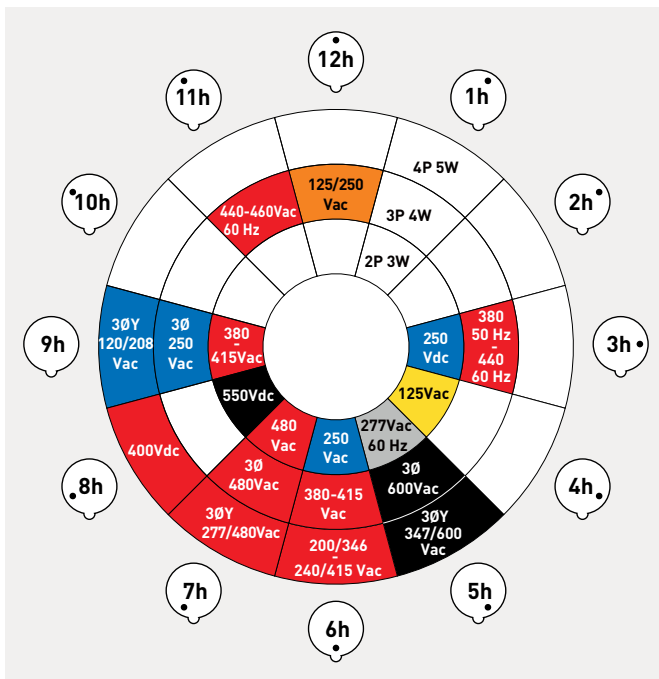
Industrial plugs and sockets for the north american market

COLOUR CODE

The operating voltages are identified by conventional colours as shown in the table:

Rated operating voltage	Colour
110/130V	
208/250V	
380/480V	
500/690V	
277V	
125/250V	

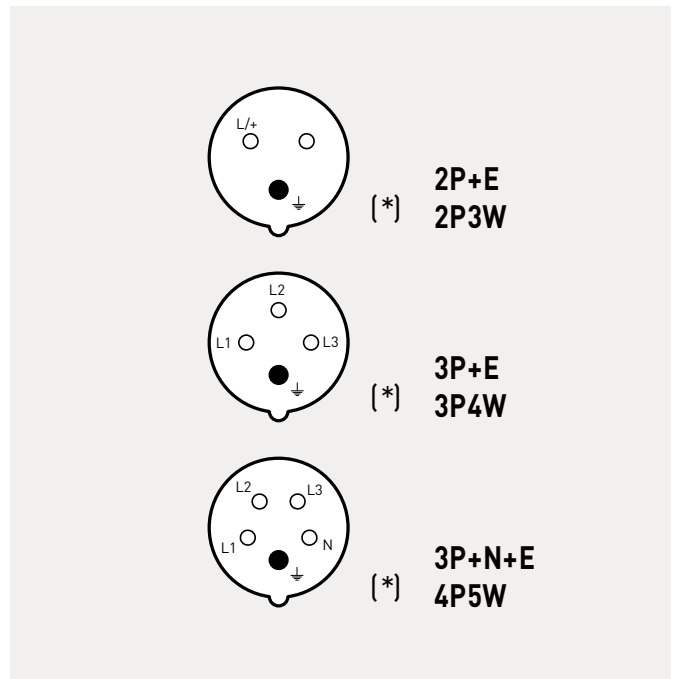
CLOCK FACE POSITION - UL RATINGS



Clock diagram

Viewing a UL Standard connector and receptacle from the front, clock our position (h) is established by the position of the earth contact respect the major keyway which is always situated at 6h clock position.

SOCKET AND RECEPTACLE (FRONT VIEW)



(*) Major keyway.

Synoptic table of standard industrial plugs and sockets to UL 1682/1686 e C22.2 n. 182.1

RATED OPERATING VOLTAGE > 50 V (LV)

Number of contact	Poles	Frequency Hz	Rated operating voltage V	Clock face pos. (h) Earth contact ¹⁾		Colour code
				20A - 30A	60A - 100A	
3 2P3W	1P+N+E	50 and 60	100÷130	4	4	
		60	277	5	5	
	2P+E	50 and 60	100÷130	4	4	
		50 and 60	200÷250	6	6	
		50 and 60	380÷415	9	9	
		50 and 60	480÷500	7	7	
		50 and 60	suppl. by isol. transf.	12	12	- ⁵⁾
		100÷300	> 50	10	10	⁴⁾
		>300÷500	> 50	2	2	⁴⁾
		d.c.	>50÷250	3	3	- ⁵⁾
d.c.	> 250	8	8	- ⁵⁾		
4 3P4W	2P+N+E	50 and 60	125/250	12	12	
	3P+E	50 and 60	100÷130	4	4	
		50 and 60	200÷250	9	9	
		50 and 60	380÷415	6	6	
		60	440÷460 ³⁾	11	11	
		50 and 60	480÷500	7	7	
		50 and 60	600÷690	5	5	
		50	380	3	3	
		60	440 ²⁾	3	3	
		50 and 60	1000	8	8	
		100÷300	> 50	10	-	⁴⁾
	>300÷500	> 50	2	-	⁴⁾	
5 4P5W	3P+N+E	50 and 60	57/100÷75/130	4	4	
		50 and 60	120/208÷144/250	9	9	
		50 and 60	200/346÷240/415	6	6	
		50 and 60	277/480÷288/500	7	7	
		50 and 60	347/600÷400/690	5	5	
		60	250/440÷265/460 ³⁾	11	11	
		50	220/380	3	3	
		60	250/440 ³⁾	3	3	
		50 and 60	1000	8	8	
		50 and 60	suppl. by isol. transf.	12	12	
		100÷300	> 50	10	10	⁴⁾
		>300÷500	> 50	2	2	⁴⁾
All types		All types of voltage and/or frequency not within these standardised configurations		1	1	-

¹⁾ The positions shown by a dash (-) are not standardised.

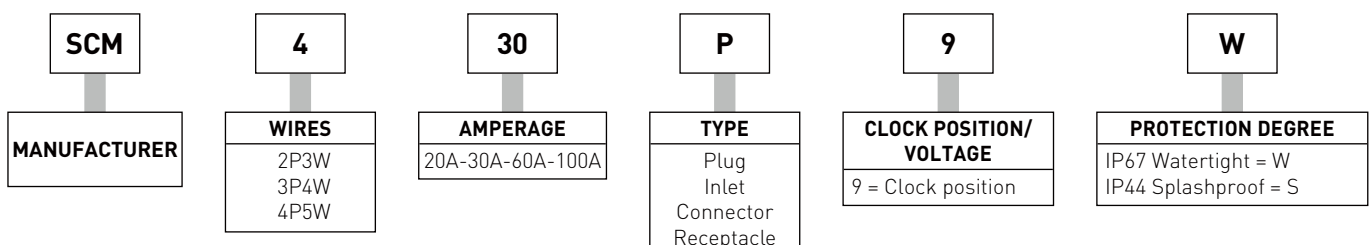
²⁾ For ISO standard refrigerated containers.

³⁾ Mainly for shipboard installations.

⁴⁾ Combinations of green with the colour of the rated operating voltage can be used to identify frequencies >60÷500Hz.

⁵⁾ Plugs and sockets for which the IEC 60309-2 standard sets only the clock face position (h) of the earth contact and not the colour, are supplied by SCAME in RAL 7035 grey*.

CATALOGUE NUMBERING SYSTEM



1.1 INDUSTRIAL PLUGS AND SOCKETS

Plugs and sockets for specific applications

Main characteristics watertight versions - IP67

PLUG



01 Safe connections

- The earth contact is the first to connect when the plug is inserted into the socket and it is the last to disconnect during extraction, for maximum safety of use even under load

02 Bayonet ring nut

- Ergonomic ring nut for greater ease of use

03 "Snap-on"

- Snap-on device on all sockets and plugs 20A-30A

04 75% faster wiring

- Locking system with anti-loosening nylon screw
- Tulip cable gland
- External cable clamp without screw



CONNECTOR



01 Cover

- Neoprene gasket with bayonet lock for IP66/67 versions
- With spring closure for IP44

02 Safe connections

- The earth contact is the first to connect when the plug is inserted into the socket and it is the last to disconnect during extraction, for maximum safety of use even under load

03 Quick and easy wiring

- Unidirectional access to terminals
- Clearly marked terminals

Double safety wiring

- Double screw terminals for versions from 30A upwards guarantee excellent contact and ensure against possible tightening errors

04 Sturdy neoprene gasket in the handle

05 Handle

- Universal capacity

06 Neoprene gasket

- With multi-diameter onion rings

07 Strain relief cable clamp

- Guarantees greater cable retention

Application examples



Wineries



Wind turbines



Datacenter



Shipyards - Container terminal



Food industry

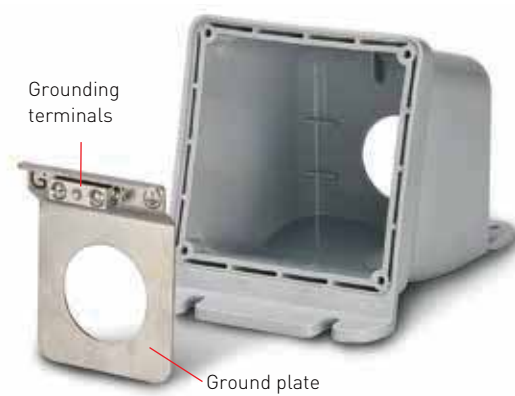


Agriculture

Liquid tight adaptor



Back box



INDUSTRIAL PLUGS AND SOCKETS

Plugs and sockets for specific applications

■ SERIES II - NORTH AMERICA - IP44 SPLASHPROOF - 20A-30A >> STRAIGHT PLUGS IP44



IP: IP44

Poles	h	Volt	Colour	20A	📦	30A	📦
2P 3W	4	125	Yellow	SCM320P4S	1/5	SCM330P4S	1/5
	5	277	Grey	SCM320P5S	1/5	SCM330P5S	1/5
	6	250	Blue	SCM320P6S ^{1) 2)}	1/5	SCM330P6S ^{1) 2)}	1/5
	7	480	Red	SCM320P7S	1/5	SCM330P7S	1/5
	8	550DC	Black			SCM330P8S	1/5
3P 4W	5	3Ø600	Black	SCM420P5S	1/5	SCM430P5S	1/5
	6	3Ø380-415	Red	SCM420P6S ^{1) 2)}	1/5	SCM430P6S ^{1) 2)}	1/5
	7	3Ø480	Red	SCM420P7S	1/5	SCM430P7S	1/5
	9	3Ø250	Blue	SCM420P9S ¹⁾	1/5	SCM430P9S ¹⁾	1/5
	12	125/250	Orange	SCM420P12S	1/5	SCM430P12S	1/5
4P 5W	5	3ØY347/600	Black	SCM520P5S	1/5	SCM530P5S	1/5
	6	200/346 240/415	Red	SCM520P6S ^{1) 2)}	1/5	SCM530P6S ^{1) 2)}	1/5
	7	3ØY277/480	Red	SCM520P7S	1/5	SCM530P7S	1/5
	9	3ØY120/208	Blue	SCM520P9S ¹⁾	1/5	SCM530P9S ¹⁾	1/5

UL listed.

¹⁾ Dual ratings - Products with dual classification: Series I (International 16A-32A-63A-125A) and Series II (North America 20A-30A-60A-100A).

²⁾ Products with dual certifications: UL listed (North America) and ENEC (International)

■ SERIES II - NORTH AMERICA - IP44 SPLASHPROOF - 20A-30A >> APPLIANCE INLETS IP44 - STRAIGHT OUTLET



IP: IP44

Poles	h	Volt	Colour	20A	📦	30A	📦
2P 3W	4	125	Yellow	SCM320B4S	1/5	SCM330B4S	1/5
	5	277	Grey	SCM320B5S	1/5	SCM330B5S	1/5
	6	250	Blue	SCM320B6S ¹⁾	1/5	SCM330B6S ¹⁾	1/5
	7	480	Red	SCM320B7S	1/5	SCM330B7S	1/5
	8	550DC	Black			SCM330B8S	1/5
3P 4W	5	3Ø600	Black	SCM420B5S	1/5	SCM430B5S	1/5
	6	3Ø380-415	Red	SCM420B6S ¹⁾	1/5	SCM430B6S ¹⁾	1/5
	7	3Ø480	Red	SCM420B7S	1/5	SCM430B7S	1/5
	9	3Ø250	Blue	SCM420B9S ¹⁾	1/5	SCM430B9S ¹⁾	1/5
	12	125/250	Orange	SCM420B12S	1/5	SCM430B12S	1/5
4P 5W	5	3ØY347/600	Black	SCM520B5S	1/5	SCM530B5S	1/5
	6	200/346 240/415	Red	SCM520B6S ¹⁾	1/5	SCM530B6S ¹⁾	1/5
	7	3ØY277/480	Red	SCM520B7S	1/5	SCM530B7S	1/5
	9	3ØY120/208	Blue	SCM520B9S ¹⁾	1/5	SCM530B9S ¹⁾	1/5

UL listed.

¹⁾ Dual ratings - Products with dual classification: Series I (International 16A-32A-63A-125A) and Series II (North America 20A-30A-60A-100A).

■ SERIES II - NORTH AMERICA - IP44 SPLASHPROOF - 20A-30A >> STRAIGHT CONNECTORS IP44



IP: IP44

Poles	h	Volt	Colour	20A	1/5	30A	1/5
2P 3W	4	125	Yellow	SCM320C4S	1/5	SCM330C4S	1
	5	277	Grey	SCM320C5S	1/5	SCM330C5S	1
	6	250	Blue	SCM320C6S ^{1) 2)}	1/5	SCM330C6S ^{1) 2)}	1
	7	480	Red	SCM320C7S	1/5	SCM330C7S	1
	8	550DC	Black			SCM330C8S	1
3P 4W	5	3Ø600	Black	SCM420C5S	1/5	SCM430C5S	1
	6	3Ø380-415	Red	SCM420C6S ^{1) 2)}	1/5	SCM430C6S ^{1) 2)}	1
	7	3Ø480	Red	SCM420C7S	1/5	SCM430C7S	1
	9	3Ø250	Blue	SCM420C9S ¹⁾	1/5	SCM430C9S ¹⁾	1
	12	125/250	Orange	SCM420C12S	1/5	SCM430C12S	1
4P 5W	5	3ØY347/600	Black	SCM520C5S	1/5	SCM530C5S	1/5
	6	200/346 240/415	Red	SCM520C6S ^{1) 2)}	1/5	SCM530C6S ^{1) 2)}	1
	7	3ØY277/480	Red	SCM520C7S	1/5	SCM530C7S	1
	9	3ØY120/208	Blue	SCM520C9S ¹⁾	1/5	SCM530C9S ¹⁾	1

UL listed.

¹⁾Dual ratings - Products with dual classification: Series I (International 16A-32A-63A-125A) and Series II (North America 20A-30A-60A-100A).

²⁾Products with dual certifications: UL listed (North America) and ENEC (International).

■ SERIES II - NORTH AMERICA - IP44 SPLASHPROOF - 20A-30A >> PANEL MOUNTING SOCKETS OUTLETS IP44 - STRAIGHT OUTLET



IP: IP44

Poles	h	Volt	Colour	20A	1/5	30A	1/5
2P 3W	4	125	Yellow	SCM320R4S	1/5	SCM330R4S	1/5
	5	277	Grey	SCM320R5S	1/5		
	6	250	Blue	SCM320R6S ¹⁾	1/5	SCM330R6S ¹⁾	1/5
	7	480	Red	SCM320R7S	1/5	SCM330R7S	1/5
	8	550DC	Black			SCM330R8S	1/5
3P 4W	5	3Ø600	Black	SCM420R5S	1/5	SCM430R5S	1/5
	6	3Ø380-415	Red	SCM420R6S ¹⁾	1/5	SCM430R6S ¹⁾	1/5
	7	3Ø480	Red	SCM420R7S	1/5	SCM430R7S	1/5
	9	3Ø250	Blue	SCM420R9S ¹⁾	1/5	SCM430R9S ¹⁾	1/5
	12	125/250	Orange	SCM420R12S	1/5	SCM430R12S	1/5
4P 5W	5	3ØY347/600	Black	SCM520R5S	1/5	SCM530R5S	1/5
	6	200/346 240/415	Red	SCM520R6S ¹⁾	1/5	SCM530R6S ¹⁾	1/5
	7	3ØY277/480	Red	SCM520R7S	1/5	SCM530R7S	1/5
	9	3ØY120/208	Blue	SCM520R9S ¹⁾	1/5	SCM530R9S ¹⁾	1/5

UL listed.

¹⁾Dual ratings - Products with dual classification: Series I (International 16A-32A-63A-125A) and Series II (North America 20A-30A-60A-100A).



PLUGS AND SOCKETS FOR SPECIFIC APPLICATIONS
EUREKA-HD [UL] SERIES

■ SERIES II - NORTH AMERICA - IP67 WATERTIGHT - 20A-30A >> STRAIGHT PLUGS IP67


IP: IP67

Poles	h	Volt	Colour	20A	1/5	30A	1/5
2P 3W	4	125	Yellow	SCM320P4W	1/5	SCM330P4W	1/5
	5	277	Grey	SCM320P5W	1/5	SCM330P5W	1/5
	6	250	Blue	SCM320P6W ^{1) 2)}	1/5	SCM330P6W ^{1) 2)}	1/5
	7	480	Red	SCM320P7W	1/5	SCM330P7W	1/5
	8	550DC	Black			SCM330P8W	1/5
3P 4W	5	3Ø600	Black	SCM420P5W	1/5	SCM430P5W	1/5
	6	3Ø380-415	Red	SCM420P6W ^{1) 2)}	1/5	SCM430P6W ^{1) 2)}	1/5
	7	3Ø480	Red	SCM420P7W	1/5	SCM430P7W	1/5
	9	3Ø250	Blue	SCM420P9W ¹⁾	1/5	SCM430P9W ¹⁾	1/5
	12	125/250	Orange	SCM420P12W	1/5	SCM430P12W	1/5
4P 5W	5	3ØY347/600	Black	SCM520P5W	1/5	SCM530P5W	1
	6	200/346 240/415	Red	SCM520P6W ^{1) 2)}	1/5	SCM530P6W ^{1) 2)}	1
	7	3ØY277/480	Red	SCM520P7W	1/5	SCM530P7W	1
	9	3ØY120/208	Blue	SCM520P9W ¹⁾	1/5	SCM530P9W ¹⁾	1

UL listed.

¹⁾ Dual ratings - Products with dual classification: Series I (International 16A-32A-63A-125A) and Series II (North America 20A-30A-60A-100A).

²⁾ Products with dual certifications: UL listed (North America) and ENEC (International).

■ SERIES II - NORTH AMERICA - IP67 WATERTIGHT - 20A-30A >> APPLIANCE INLETS IP67 - STRAIGHT OUTLET


IP: IP67

Poles	h	Volt	Colour	20A	1/5	30A	1/5
2P 3W	4	125	Yellow	SCM320B4W	1/5	SCM330B4W	1/5
	5	277	Grey	SCM320B5W	1/5	SCM330B5W	1/5
	6	250	Blue	SCM320B6W ¹⁾	1/5	SCM330B6W ¹⁾	1/5
	7	480	Red	SCM320B7W	1/5	SCM330B7W	1/5
	8	550DC	Black			SCM330B8W	1/5
3P 4W	5	3Ø600	Black	SCM420B5W	1/5	SCM430B5W	1/5
	6	3Ø380-415	Red	SCM420B6W ¹⁾	1/5	SCM430B6W ¹⁾	1/5
	7	3Ø480	Red	SCM420B7W	1/5	SCM430B7W	1/5
	9	3Ø250	Blue	SCM420B9W ¹⁾	1/5	SCM430B9W ¹⁾	1/5
	12	125/250	Orange	SCM420B12W	1/5	SCM430B12W	1/5
4P 5W	5	3ØY347/600	Black	SCM520B5W	1/5	SCM530B5W	1/5
	6	200/346 240/415	Red	SCM520B6W ¹⁾	1/5	SCM530B6W ¹⁾	1/5
	7	3ØY277/480	Red	SCM520B7W	1/5	SCM530B7W	1/5
	9	3ØY120/208	Blue	SCM520B9W ¹⁾	1/5	SCM530B9W ¹⁾	1/5

UL listed.

¹⁾ Dual ratings - Products with dual classification: Series I (International 16A-32A-63A-125A) and Series II (North America 20A-30A-60A-100A).

■ SERIES II - NORTH AMERICA - IP67 WATERTIGHT - 20A-30A >> STRAIGHT CONNECTORS IP67



IP: IP67

Poles	h	Volt	Colour	20A	1/5	30A	1/5
2P 3W	4	125	Yellow	SCM320C4W	1/5	SCM330C4W	1
	5	277	Grey	SCM320C5W	1/5	SCM330C5W	1
	6	250	Blue	SCM320C6W ^{1) 2)}	1/5	SCM330C6W ^{1) 2)}	1
	7	480	Red	SCM320C7W	1/5	SCM330C7W	1
	8	550DC	Black			SCM330C8W	1
3P 4W	5	3Ø600	Black	SCM420C5W	1/5	SCM430C5W	1
	6	3Ø380-415	Red	SCM420C6W ^{1) 2)}	1/5	SCM430C6W ^{1) 2)}	1
	7	3Ø480	Red	SCM420C7W	1/5	SCM430C7W	1
	9	3Ø250	Blue	SCM420C9W ¹⁾	1/5	SCM430C9W ¹⁾	1
	12	125/250	Orange	SCM420C12W	1/5	SCM430C12W	1
4P 5W	5	3ØY347/600	Black	SCM520C5W	1/5	SCM530C5W	1
	6	200/346 240/415	Red	SCM520C6W ^{1) 2)}	1/5	SCM530C6W ^{1) 2)}	1
	7	3ØY277/480	Red	SCM520C7W	1/5	SCM530C7W	1
	9	3ØY120/208	Blue	SCM520C9W ¹⁾	1/5	SCM530C9W ¹⁾	1

UL listed.

¹⁾ Dual ratings - Products with dual classification: Series I (International 16A-32A-63A-125A) and Series II (North America 20A-30A-60A-100A).

²⁾ Products with dual certifications: UL listed (North America) and ENEC (International).

■ SERIES II - NORTH AMERICA - IP67 WATERTIGHT - 20A-30A >> PANEL MOUNTING SOCKETS OUTLETS IP67 - STRAIGHT OUTLET



IP: IP67

Poles	h	Hz	Volt	Colour	20A	1/5	30A	1/5
2P 3W	4		125	Yellow	SCM320R4W	1/5	SCM330R4W	1/5
	5	60	277	Grey			SCM330R5W	1/5
	5		277	Grey	SCM320R5W	1/5		
	6		250	Blue	SCM320R6W ¹⁾	1/5	SCM330R6W ¹⁾	1/5
	7		480	Red	SCM320R7W	1/5	SCM330R7W	1/5
3P 4W	8		550DC	Black			SCM330R8W	1/5
	5		3Ø600	Black	SCM420R5W	1/5	SCM430R5W	1/5
	6		3Ø380-415	Red	SCM420R6W ¹⁾	1/5	SCM430R6W ¹⁾	1/5
	7		3Ø480	Red	SCM420R7W	1/5	SCM430R7W	1/5
	9		3Ø250	Blue	SCM420R9W ¹⁾	1/5	SCM430R9W ¹⁾	1/5
4P 5W	12		125/250	Orange	SCM420R12W	1/5	SCM430R12W	1/5
	5		3ØY347/600	Black	SCM520R5W	1/5	SCM530R5W	1/5
	6		200/346 240/415	Red	SCM520R6W ¹⁾	1/5	SCM530R6W ¹⁾	1/5
	7		3ØY277/480	Red	SCM520R7W	1/5	SCM530R7W	1/5
	9		3ØY120/208	Blue	SCM520R9W ¹⁾	1/5	SCM530R9W ¹⁾	1/5

UL listed.

¹⁾ Dual ratings - Products with dual classification: Series I (International 16A-32A-63A-125A) and Series II (North America 20A-30A-60A-100A).



PLUGS AND SOCKETS FOR SPECIFIC APPLICATIONS
EUREKA-HD [UL] SERIES

■ SERIES II - NORTH AMERICA - IP67 WATERTIGHT - 60A-100A >> STRAIGHT PLUGS IP67



IP: IP67

Poles	h	Volt	Colour	60A	100A
2P 3W	3	250DC	Blue	SCM360P3W	1
	4	125	Yellow	SCM360P4W	1
	5	277	Grey	SCM360P5W	1
	6	250	Blue	SCM360P6W ^{1) 2)}	1
	7	480	Red	SCM360P7W	1
	8	550DC	Black	SCM360P8W	1
3P 4W	5	3Ø600	Black	SCM460P5W	1
	6	3Ø380-415	Red	SCM460P6W ^{1) 2)}	1
	7	3Ø480	Red	SCM460P7W	1
	9	3Ø250	Blue	SCM460P9W ¹⁾	1
	12	125/250	Orange	SCM460P12W	1
4P 5W	5	3ØY347/600	Black	SCM560P5W	1
	6	200/346 240/415	Red	SCM560P6W ^{1) 2)}	1
	7	3ØY277/480	Red	SCM560P7W	1
	8	400DC	Red	SCM560P8W	1
	9	3ØY120/208	Blue	SCM560P9W ¹⁾	1

UL listed.

¹⁾Dual ratings - Products with dual classification: Series I (International 16A-32A-63A-125A) and Series II (North America 20A-30A-60A-100A).

²⁾Products with dual certifications: UL listed (North America) and ENEC (International).

■ SERIES II - NORTH AMERICA - IP67 WATERTIGHT - 60A-100A >> APPLIANCE INLETS IP67 - STRAIGHT OUTLET



IP: IP67

Poles	h	Volt	Colour	60A	100A
2P 3W	3	250DC	Blue	SCM360B3W	1
	4	125	Yellow	SCM360B4W	1
	5	277	Grey	SCM360B5W	1
	6	250	Blue	SCM360B6W ¹⁾	1
	7	480	Red	SCM360B7W	1
	8	550DC	Black	SCM360B8W	1
3P 4W	5	3Ø600	Black	SCM460B5W	1
	6	3Ø380-415	Red	SCM460B6W ¹⁾	1
	7	3Ø480	Red	SCM460B7W	1
	9	3Ø250	Blue	SCM460B9W	1
	12	125/250	Orange	SCM460B12W	1
4P 5W	5	3ØY347/600	Black	SCM560B5W	1
	6	200/346 240/415	Red	SCM560B6W ¹⁾	1
	7	3ØY277/480	Red	SCM560B7W	1
	8	400DC	Red	SCM560B8W	1
	9	3ØY120/208	Blue	SCM560B9W	1

UL listed.

¹⁾Dual ratings - Products with dual classification: Series I (International 16A-32A-63A-125A) and Series II (North America 20A-30A-60A-100A).

■ SERIES II - NORTH AMERICA - IP67 WATERTIGHT - 60A-100A >> STRAIGHT CONNECTORS IP67



IP: IP67

Poles	h	Volt	Colour	60A	100A
2P 3W	3	250DC	Blue	SCM360C3W	1
	4	125	Yellow	SCM360C4W	1
	5	277	Grey	SCM360C5W	1
	6	250	Blue	SCM360C6W ^{1) 2)}	1
	7	480	Red	SCM360C7W	1
3P 4W	8	550DC	Black	SCM360C8W	1
	5	3Ø600	Black	SCM460C5W	1
	6	3Ø380-415	Red	SCM460C6W ^{1) 2)}	1
	7	3Ø480	Red	SCM460C7W	1
	9	3Ø250	Blue	SCM460C9W ¹⁾	1
4P 5W	12	125/250	Orange	SCM460C12W	1
	5	3ØY347/600	Black	SCM560C5W	1
	6	200/346 240/415	Red	SCM560C6W ^{1) 2)}	1
	7	3ØY277/480	Red	SCM560C7W	1
	8	400DC	Red	SCM5100C8W	1
	9	3ØY120/208	Blue	SCM560C9W ¹⁾	1

UL listed.

¹⁾Dual ratings - Products with dual classification: Series I (International 16A-32A-63A-125A) and Series II (North America 20A-30A-60A-100A).

²⁾Products with dual certifications: UL listed (North America) and ENEC (International).

■ SERIES II - NORTH AMERICA - IP67 WATERTIGHT - 60A-100A >> PANEL MOUNTING SOCKETS OUTLETS IP67 - STRAIGHT OUTLET



IP: IP67

Poles	h	Volt	Colour	60A	100A
2P 3W	3	250DC	Blue	SCM360R3W	1
	4	125	Yellow	SCM360R4W	1
	5	277	Grey	SCM360R5W	1
	6	250	Blue	SCM360R6W ¹⁾	1
	7	480	Red	SCM360R7W	1
3P 4W	8	550DC	Black	SCM360R8W	1
	5	3Ø600	Black	SCM460R5W	1
	6	3Ø380-415	Red	SCM460R6W ¹⁾	1
	7	3Ø480	Red	SCM460R7W	1
	9	3Ø250	Blue	SCM460R9W ¹⁾	1
4P 5W	12	125/250	Orange	SCM460R12W	1
	5	3ØY347/600	Black	SCM560R5W	1
	6	200/346 240/415	Red	SCM560R6W ¹⁾	1
	7	3ØY277/480	Red	SCM560R7W	1
	8	400DC	Red	SCM5100R8W	1
	9	3ØY120/208	Blue	SCM560R9W ¹⁾	1

¹⁾Dual ratings - Products with dual classification: Series I (International 16A-32A-63A-125A) and Series II (North America 20A-30A-60A-100A).



PLUGS AND SOCKETS FOR SPECIFIC APPLICATIONS
EUREKA-HD [UL] SERIES

INDUSTRIAL PLUGS AND SOCKETS

Plugs and sockets for specific applications

ACCESSORIES >> LIQUID TIGHT ADAPTERS



Description	IP	Type	Code	
LIQUID TIGHT ADAPTER	IP67	20A 3-4 WIRE 1/2" NPT	SCMSAA12	1/5
	IP67	20A 5 WIRE 1/2" NPT	SCMSAB12	1/5
	IP67	30A 3-4 WIRE 3/4" NPT	SCMSAB34	1/5
	IP67	30A 5 WIRE 1" NPT	SCMSAC100	1/5
	IP67	60A 3-4-5 WIRE 1 1/4" NPT	SCMSAC125	1/5
	IP67	30A 5 WIRE 3/4" NPT	SCMSAC34	1/5
	IP67	100A 3-4-5 WIRE 1 1/4" NPT	SCMSAD125	1/5

For attaching flexible liquidtight metal conduit to Scame EUREKA-HD[UL] Series plugs and connectors.

ACCESSORIES >> NON-METALLIC BACK-BOXES



Description	IP	Type	Code	
BACK BOX	IP67	75x75mm - SMALL	SCMBB01	1/12
	IP67	120x120mm - MEDIUM	SCMBB02	1/12
	IP67	145x145mm - LARGE	SCMBB03	1/6

UL listed

For fixed plugs and sockets EUREKA-HD[UL] Series

ACCESSORIES >> GROUND PLATE



Description	Notes	Code	
EARTH CONTINUITY PLATE	ADV-GRP 20/30A /BACK BOX SMALL	SCMGP01AB	10
	ADVANCE-GRP 60A	SCMGP02A	10
	BACK BOX LARGE	SCMGP03B	10
	BACK BOX MEDIUM	SCMGP02B	10

ACCESSORIES >> COVER FOR IP66/IP67/IP69 PLUGS



Description	IP	Current	Poles	Code	
PLUG CAP	IP66/IP67/IP69	16A 20A	2P+E	570.90163	10/100
	IP66/IP67/IP69	16A 20A	3P+E	570.90164	10/100
	IP66/IP67/IP69	16A 20A	3P+N+E	570.90165	10/100
	IP66/IP67/IP69	30A 32A	3P+N+E	570.90325	10/100
	IP66/IP67/IP69	30A 32A	2/3P+E	570.90324	10/100
	IP66/IP67/IP69	60A 63A	ALL	570.9063	10
	IP66/IP67/IP69	100A 125A	ALL	570.9125	10



OPTIMA-SEVEN Series


OPTIMA-SEVEN is a range of industrial 7 poles plugs and socket outlets rated 16 and 32A.

Robust and safe industrial electrical plugs and sockets thanks to the use of high performance technopolymer enclosures and to the external cable gland with cable clamp function in the mobile versions.

Quick to wire thanks to the opening of the body by means of a snap-on steel spring mechanism in the mobile versions.

The efficiency of the contacts over time is guaranteed by the use of nickel-plated brass pins, resistant to oxidation and aging.

OPTIMA-SEVEN connectors are ideal for starting star-delta motors, for connecting transformers with multiple outputs and for monitoring, control and actuation.

 technical sheet **p. 746**



Applications examples



Industry



Building construction site

Plugs and sockets for specific applications

■ OPTIMA-SEVEN SERIES - IP44 >> PLUGS



Poles	h	Hz	Volt	Colour	16A		32A	
6P+E	6	50 60	380-415		213.1637-7	10	213.3237-7	10



IP: IP44

■ OPTIMA-SEVEN SERIES - IP44 >> FLUSH MOUNTING APPLIANCE INLETS



Poles	h	Hz	Volt	Colour	16A		32A	
6P+E	6	50 60	380-415		243.1697-7	10	243.3297-7	10



IP: IP44

■ OPTIMA-SEVEN SERIES - IP44 >> SURFACE MOUNTING APPLIANCE INLETS



Poles	h	Hz	Volt	Colour	16A		32A	
6P+E	6	50 60	380-415		240.1697-7	10	240.3297-7	10

Open threaded cable entry.
Threaded cap/cable sleeve included.



IP: IP44

■ OPTIMA-SEVEN SERIES - IP44 >> CONNECTORS



IP: IP44

Poles	h	Hz	Volt	Colour	16A		32A	
6P+E	6	50 60	380-415		313.1647-7	10	313.3247-7	10

PLUGS AND SOCKETS FOR SPECIFIC APPLICATIONS
OPTIMA-SEVEN SERIES

■ OPTIMA-SEVEN SERIES - IP44 >> FLUSH MOUNTING SOCKET OUTLETS



IP: IP44

Poles	h	Hz	Volt	Colour	16A		32A	
6P+E	6	50 60	380-415		413.1667-7	10	413.3267-7	10

■ OPTIMA-SEVEN SERIES - IP44 >> SURFACE MOUNTING SOCKET OUTLETS



IP: IP44

Poles	h	Hz	Volt	Colour	16A		32A	
6P+E	6	50 60	380-415		512.1657-7	10	512.3257-7	10

Open threaded cable entry.
Threaded cap/cable sleeve included.

Plugs and sockets for specific applications

■ OPTIMA-SEVEN SERIES - IP66/IP67 >> PLUGS



Poles	h	Hz	Volt	Colour	16A		32A	
6P+E	6	50 60	380-415		218.1637-7	10	218.3237-7	10



IP: IP66/IP67

■ OPTIMA-SEVEN SERIES - IP66/IP67 >> FLUSH MOUNTING APPLIANCE INLETS



Poles	h	Hz	Volt	Colour	16A		32A	
6P+E	6	50 60	380-415		248.1697-7	10	248.3297-7	10



IP: IP66/IP67

■ OPTIMA-SEVEN SERIES - IP66/IP67 >> SURFACE MOUNTING APPLIANCE INLETS



Poles	h	Hz	Volt	Colour	16A		32A	
6P+E	6	50 60	380-415		245.1697-7	5	245.3297-7	5

Open threaded cable entry.
Threaded cap/cable sleeve included.



IP: IP66/IP67

■ OPTIMA-SEVEN SERIES - IP66/IP67 >> CONNECTORS



Poles	h	Hz	Volt	Colour	16A		32A	
6P+E	6	50 60	380-415		318.1647-7	10	318.3247-7	10



IP: IP66/IP67

■ OPTIMA-SEVEN SERIES - IP66/IP67 >> FLUSH MOUNTING SOCKET OUTLETS



Poles	h	Hz	Volt	Colour	16A		32A	
6P+E	6	50 60	380-415		418.1667-7	10	418.3267-7	10



IP: IP66/IP67

■ OPTIMA-SEVEN SERIES - IP66/IP67 >> SURFACE MOUNTING SOCKET OUTLETS



Poles	h	Hz	Volt	Colour	16A		32A	
6P+E	6	50 60	380-415		517.1657-7	5	517.3257-7	5

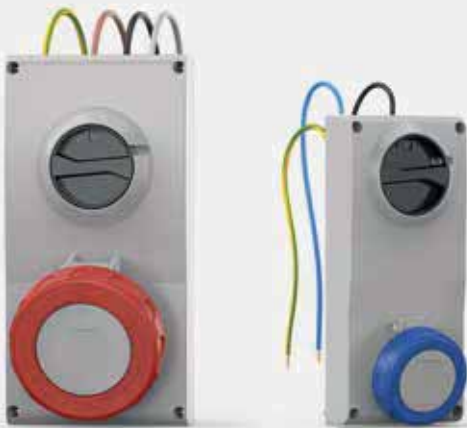
Open threaded cable entry.
Threaded cap/cable sleeve included.



IP: IP66/IP67

PLUGS AND SOCKETS FOR SPECIFIC APPLICATIONS
OPTIMA-SEVEN SERIES





**SWITCHED INTERLOCKED
SOCKET OUTLETS**



Industrial plugs and sockets to IEC 60309 rated operating voltage >50V

CLOCK FACE POSITION







Viewing the socket from the front, the clock face position (h) is established by observing the position of the earth contact with respect to the major keyway, which is always situated at 6 o'clock. The different voltages are identified by conventional colour codes.

EXAMPLES:

- standard use h 6
- refrigerated container h 3
- marine, port or ship installation h 11
- direct current (2P + E) h 3 and 8
- supply by isolation transformer (TST)..... h 12
- high frequency, from 100 to 300 Hz h 10
- high frequency, from 300 to 500 Hz h 2
- specific voltages 100 - 130V h 4
- 480 - 500V h 7
- 600 - 690V h 5

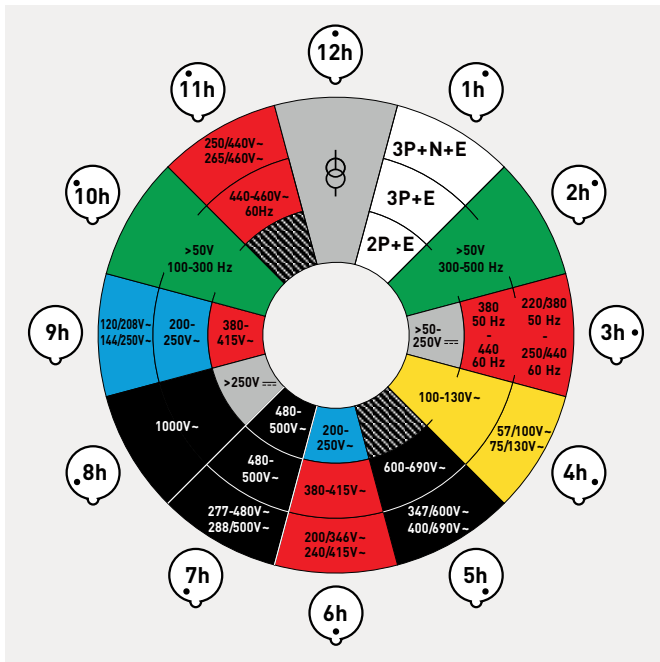
COLOUR CODE

The operating voltages are identified by conventional colours as shown in the table:

Rated operating voltage V	Colour ¹⁾
from 20 to 25	Violet 
from 40 to 50	White 
from 100 to 130	Yellow 
from 200 to 250	Blue 
from 380 to 480	Red 
from 500 to 1000	Black 

¹⁾ Combinations of green with the colour of the rated operating voltage can be used to identify frequencies between 60 Hz and 500 Hz inclusive.

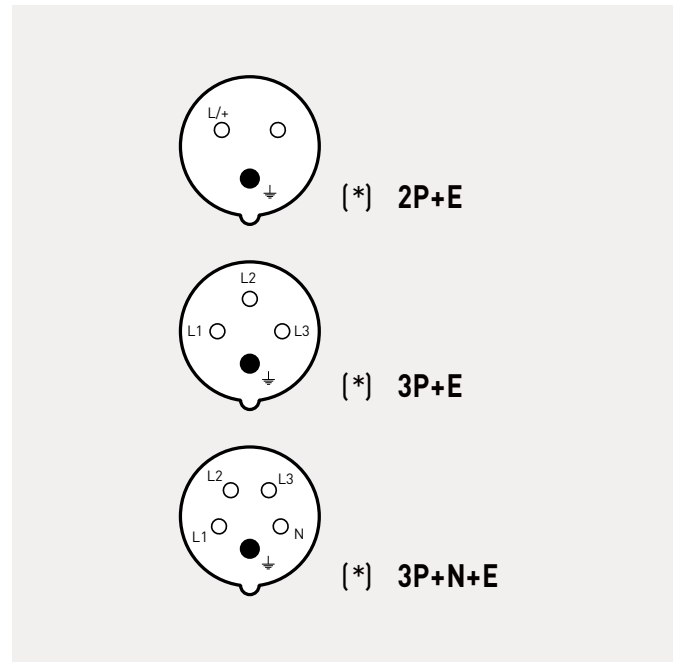
CLOCK POSITION - IEC RATINGS



Clock diagram

Clock face position (h) of the earth pole of low voltage (>50 V) industrial plugs and sockets to IEC 60309-2 for different applications. (polarity, voltage, frequency, current).
 ⊕ = Supply from isolation transformer.

SOCKET (FRONT VIEW)



(*) Major keyway.

Synoptic table of standard industrial plugs and sockets to IEC 60309-2

RATED OPERATING VOLTAGE > 50 V (LV)

Number of contact	Poles	Frequency Hz	Rated operating voltage V	Clock face pos. (h) Earth contact ¹⁾		Colour code
				16A - 32A	63A - 125A	
3	2P+E	50 and 60	100÷130	4	4	
		50 and 60	200÷250	6	6	
		50 and 60	380÷415	9	9	
		50 and 60	480÷500	7	7	
		50 and 60	suppl. by isol. transf.	12	12	- 5)
		100÷300	> 50	10	10	4)
		>300÷500	> 50	2	2	4)
		d.c.	>50÷250	3	3	- 5)
		d.c.	> 250	8	8	- 5)
4	3P+E	50 and 60	100÷130	4	4	
		50 and 60	200÷250	9	9	
		50 and 60	380÷415	6	6	
		60	440÷460 ³⁾	11	11	
		50 and 60	480÷500	7	7	
		50 and 60	600÷690	5	5	
		50 60	380 440 ²⁾	3	3	
		50 and 60	1000	8	8	
		100÷300	> 50	10	-	4)
		>300÷500	> 50	2	-	4)
		5	3P+N+E	50 and 60	57/100÷75/130	4
50 and 60	120/208÷144/250			9	9	
50 and 60	200/346÷240/415			6	6	
50 and 60	277/480÷288/500			7	7	
50 and 60	347/600÷400/690			5	5	
60	250/440÷265/460 ³⁾			11	11	
50 60	220/380 250/440 ³⁾			3	3	
50 and 60	1000			8	8	
50 and 60	suppl. by isol. transf.			12	12	
100÷300	> 50			10	10	4)
>300÷500	> 50			2	2	4)
All types				All types of voltage and/or frequency not within these standardised configurations		1

¹⁾ The positions shown by a dash (-) are not standardised.

²⁾ For ISO standard refrigerated containers.

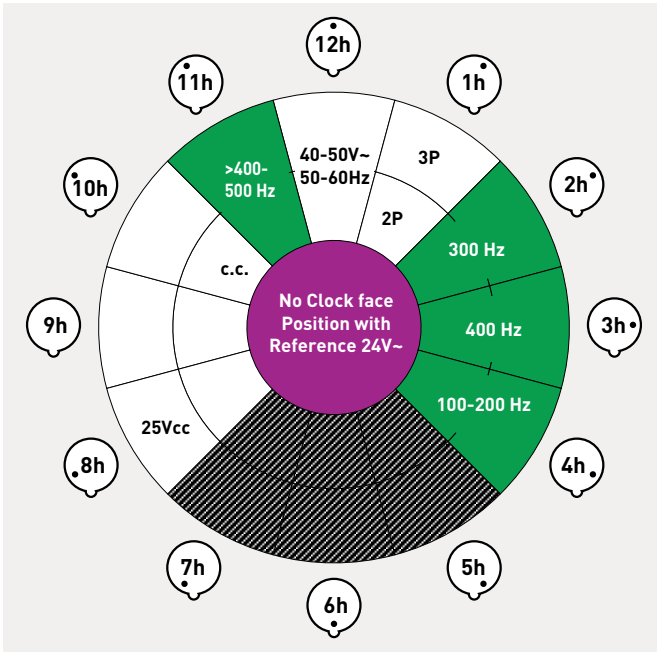
³⁾ Mainly for shipboard installations.

⁴⁾ Combinations of green with the colour of the rated operating voltage can be used to identify frequencies >60÷500Hz.

⁵⁾ Plugs and sockets for which the IEC 60309-2 standard sets only the clock face position (h) of the earth contact and not the colour, are supplied by SCAME in RAL 7035 grey.



CLOCK FACE POSITION - IEC RATINGS

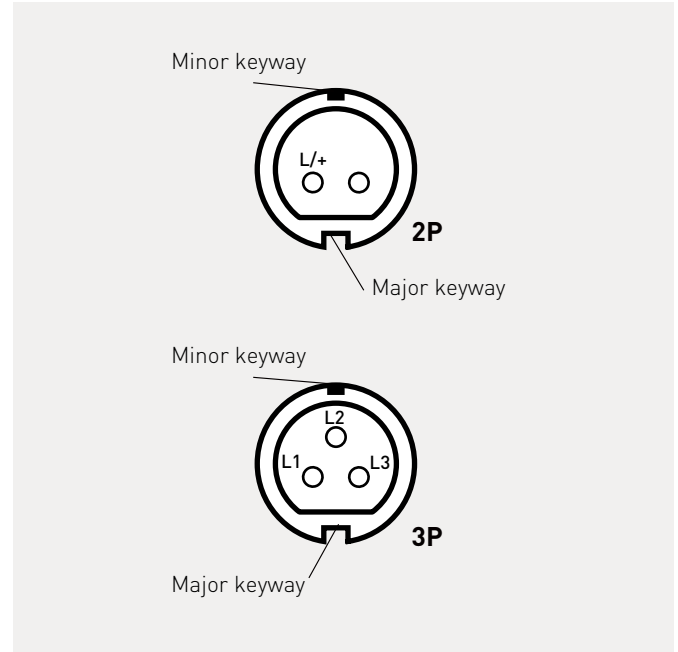


Clock diagram

No clock face position with Reference 24V~.

Clock face position (h) of the minor keyway of extra-low voltage (<50V) industrial plugs and sockets to IEC 60309-2 for different applications (polarity, voltage, frequency, current).

SOCKET (FRONT VIEW)

















Clock face position

Viewing the socket from the front, the clock face position (h) is established by observing the position of the minor keyway with respect to the major keyway, which is always situated at 6 o'clock. The different voltages are identified by conventional colour codes.

Synoptic table of standard industrial plugs and sockets to IEC 60309-2

RATED OPERATING VOLTAGE <50V~ (ELV)

Poles	Frequency Hz	Rated operating voltage V	Minor keyway clock face position (h) 16A and 32A without reference	Colour code
2P	50 and 60	20÷25	without ref.	
	50 and 60	40÷50	12	
	100÷200	20÷25 and 40÷50	4	 ¹⁾
	300	20÷25 and 40÷50	2	 ¹⁾
	400	20÷25 and 40÷50	3	 ¹⁾
	>400÷500	20÷25 and 40÷50	11	 ¹⁾
	c.c.	20÷25 and 40÷50	10	
3P	50 and 60	20÷25	without ref.	
	50 and 60	40÷50	12	
	100÷200	20÷25 and 40÷50	4	 ¹⁾
	300	20÷25 and 40÷50	2	 ¹⁾
	400	20÷25 and 40÷50	3	 ¹⁾
	>400÷500	20÷25 and 40÷50	11	 ¹⁾
	c.c.	25	8	 ²⁾

¹⁾ Combinations of green with the colour of the rated operating voltage can be used to identify frequencies >60÷500Hz.

²⁾ Portable electric incubators. Use at 12Vd.c. or 24Vd.c. on ambulances or helicopters.



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS
PROXIMA System



PROXIMA SYSTEM

PROXIMA SERIES

p. 173

Industrial switched interlocked socket outlets



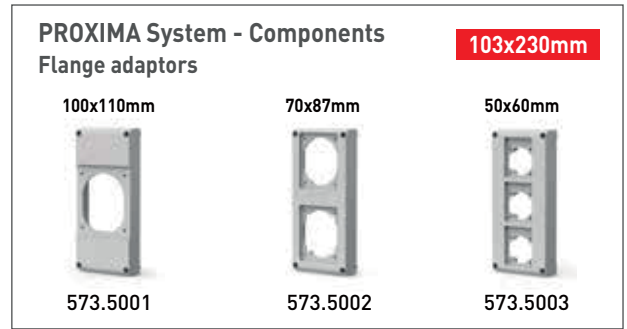
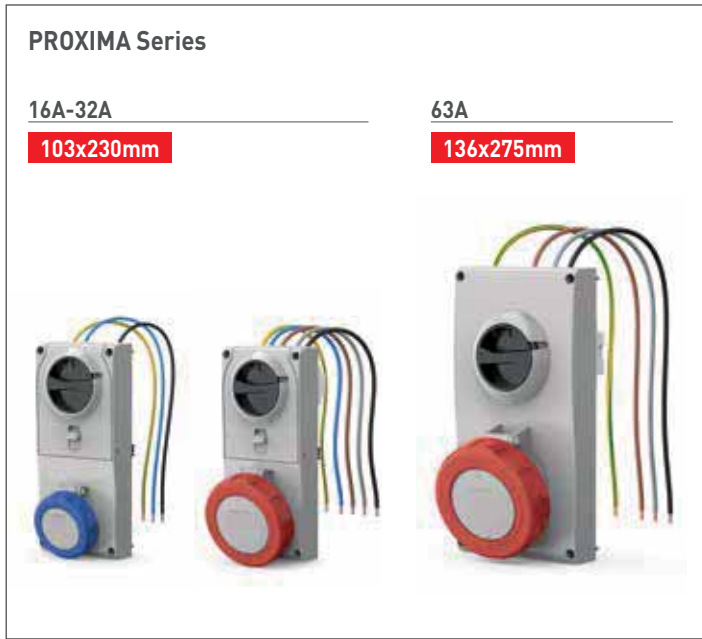
COMPONENTS

p. 180

Modular enclosures and installation accessories



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS PROXIMA System



PROXIMA System - Components

	SURFACE MOUNTING BOXES		SURFACE MOUNTING MODULAR BASES				SURFACE MOUNTING DISTRIBUTION ASSEMBLIES		
	Single	Single with junction box	Double with junction box	Triple with junction box	Single with consumer unit	Double with consumer unit	Triple with consumer unit	Triple with consumer unit	Quadruple with consumer unit
16A-32A	573.5100	573.5110	573.5120	573.5130	573.5111	573.5121	573.5131		573.5381
63A		573.5210			573.5211				
16A-32A-63A		573.5210			573.5211			573.5351	

Combination examples





PROXIMA Series

PROXIMA is a complete range of interlocked socket outlets from 16 to 63A, with or without fuse protection in 16A and 32A versions.

Available as single surface mounting or flush mounting socket outlets to be installed on the relative modular bases system.

Flush mounting versions have the switch pre-wired upstream to speed up the wiring operations of the distribution assemblies.

The large and recessed knob facilitates operation in any condition, while at the same time preventing breakage from accidental impacts.

The socket cover has a clear indication of the open and closed positions and is equipped with a high grip ring nut to ease tightening operations.

technical sheet p. 774

Technical information

Main characteristics



- 01** Pre-wired switch on DIN rail side (flush mounting versions)
- 02** XXL handle, ergonomic and recessed to prevent breakage due to accidental impacts
- 03** Padlockable in the ON and OFF position

- 04** AC23 switch
- 05** Clear indication of open or closed position
- 06** Captive stainless steel closing screws

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS

PROXIMA System

■ WITHOUT FUSE CARRIER >> FLUSH MOUNTING >> IP66/IP67/IP69



IP: IP66/IP67/IP69
Flange: 103X230MM

Poles	h	Hz	Volt	Colour	16A	1/10	32A	1/10
2P+E	2	>300-500	>50	Green	407.16832 ¹⁾	1/10	407.32832 ¹⁾	1/10
	3	DC	>50-250	Grey	407.16834 ²⁾	1/10	407.32834 ²⁾	1/10
	4	50 60	100-130	Yellow	407.1670	1/10	407.3270	1/10
	6	50 60	200-250	Blue	407.1683	1/10	407.3283	1/10
	7	50 60	480-500	Black	407.16836	1/10	407.32836	1/10
	8	DC	>250	Grey	407.16838 ²⁾	1/10	407.32838 ²⁾	1/10
	9	50 60	380-415	Red	407.1678	1/10	407.3278	1/10
	12	50 60	TST>50	Grey	407.16833	1/10	407.32833	1/10
	3P+E	2	>300-500	>50	Green	407.16862 ¹⁾	1/10	407.32862 ¹⁾
3		50 60	380 50Hz / 440 60Hz	Red	407.16864	1/10	407.32864	1/10
4		50 60	100-130	Yellow	407.1672	1/10	407.3272	1/10
5		50 60	600-690	Black	407.16867 ³⁾	1/10	407.32867 ³⁾	1/10
6		50 60	380-415	Red	407.1686	1/10	407.3286	1/10
7		50 60	480-500	Black	407.16866	1/10	407.32866	1/10
9		50 60	200-250	Blue	407.1674	1/10	407.3274	1/10
10		100-300	>50	Green	407.16861 ¹⁾	1/10	407.32861 ¹⁾	1/10
11		60	440-460	Red	407.16865	1/10	407.32865	1/10
3P+N+E	2	>300-500	>50	Green	407.16872 ¹⁾	1/10	407.32872 ¹⁾	1/10
	3	50 60	380 50Hz / 440 60Hz	Red	407.16874	1/10	407.32874	1/10
	4	50 60	100-130	Yellow	407.1679	1/10	407.3279	1/10
	5	50 60	600-690	Black	407.16877 ³⁾	1/10	407.32877 ³⁾	1/10
	6	50 60	346-415	Red	407.1687	1/10	407.3287	1/10
	7	50 60	480-500	Black	407.16876	1/10	407.32876	1/10
	9	50 60	208-250	Blue	407.1675	1/10	407.3275	1/10
	11	60	440-460	Red	407.16875	1/10	407.32875	1/10



IP: IP66/IP67/IP69
Flange: 136X275MM

Poles	h	Hz	Volt	Colour	63A	1/6
2P+E	2	>300-500	>50	Green	407.63832 ¹⁾	1/6
	3	DC	>50-250	Grey	407.63834 ²⁾	1/6
	4	50 60	100-130	Yellow	407.6370	1/6
	6	50 60	200-250	Blue	407.6383	1/6
	7	50 60	480-500	Black	407.63836	1/6
	9	50 60	380-415	Red	407.6378	1/6
	12	50 60	TST>50	Grey	407.63833	1/6
	2	>300-500	>50	Green	407.63862 ¹⁾	1/6
	3	50 60	380 50Hz / 440 60Hz	Red	407.63864	1/6
3P+E	4	50 60	100-130	Yellow	407.6372	1/6
	5	50 60	600-690	Black	407.63867 ³⁾	1/6
	6	50 60	380-415	Red	407.6386	1/6
	7	50 60	480-500	Black	407.63866	1/6
	9	50 60	200-250	Blue	407.6374	1/6
	10	100-300	>50	Green	407.63861 ¹⁾	1/6
	11	60	440-460	Red	407.63865	1/6
	2	>300-500	>50	Green	407.63872 ¹⁾	1/6
	3	50 60	380 50Hz / 440 60Hz	Red	407.63874	1/6
3P+N+E	4	50 60	100-130	Yellow	407.6379	1/6
	5	50 60	600-690	Black	407.63877 ³⁾	1/6
	6	50 60	346-415	Red	407.6387	1/6
	7	50 60	480-500	Black	407.63876	1/6
	9	50 60	208-250	Blue	407.6375	1/6
	11	60	440-460	Red	407.63875	1/6

Supplied with stainless steel fixing screws.
Pre-wired connection cables provided.

¹⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾ When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

■ WITHOUT FUSE CARRIER >> SURFACE MOUNTING >> IP66/IP67/IP69



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A	1/10	32A	1/10
2P+E	2	>300-500	>50	Green	507.16832 ¹⁾	1/10	507.32832 ¹⁾	1/10
	3	DC	>50-250	Grey	507.16834 ²⁾	1/10	507.32834 ²⁾	1/10
	4	50 60	100-130	Yellow	507.1670	1/10	507.3270	1/10
	6	50 60	200-250	Blue	507.1683	1/10	507.3283	1/10
	7	50 60	480-500	Black	507.16836	1/10	507.32836	1/10
	8	DC	>250	Grey	507.16838 ²⁾	1/10	507.32838 ²⁾	1/10
	9	50 60	380-415	Red	507.1678	1/10	507.3278	1/10
	12	50 60	TST>50	Grey	507.16833	1/10	507.32833	1/10
3P+E	2	>300-500	>50	Green	507.16862 ¹⁾	1/10	507.32862 ¹⁾	1/10
	3	50 60	380 50Hz / 440 60Hz	Red	507.16864	1/10	507.32864	1/10
	4	50 60	100-130	Yellow	507.1672	1/10	507.3272	1/10
	5	50 60	600-690	Black	507.16867 ³⁾	1/10	507.32867 ³⁾	1/10
	6	50 60	380-415	Red	507.1686	1/10	507.3286	1/10
	7	50 60	480-500	Black	507.16866	1/10	507.32866	1/10
	9	50 60	200-250	Blue	507.1674	1/10	507.3274	1/10
	10	100-300	>50	Green	507.16861 ¹⁾	1/10	507.32861 ¹⁾	1/10
11	60	440-460	Red	507.16865	1/10	507.32865	1/10	
3P+N+E	2	>300-500	>50	Green	507.16872 ¹⁾	1/10	507.32872 ¹⁾	1/10
	3	50 60	380 50Hz / 440 60Hz	Red	507.16874	1/10	507.32874	1/10
	4	50 60	100-130	Yellow	507.1679	1/10	507.3279	1/10
	5	50 60	600-690	Black	507.16877 ³⁾	1/10	507.32877 ³⁾	1/10
	6	50 60	346-415	Red	507.1687	1/10	507.3287	1/10
	7	50 60	480-500	Black	507.16876	1/10	507.32876	1/10
	9	50 60	208-250	Blue	507.1675	1/10	507.3275	1/10
	11	60	440-460	Red	507.16875	1/10	507.32875	1/10

Blank side with drilling point marks.
Top and bottom side cable entry.

¹⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾ When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.








1.2 SWITCHED INTERLOCKED SOCKET OUTLETS PROXIMA System

■ WITH FUSE CARRIER >> FLUSH MOUNTING >> IP66/IP67/IP69



IP: IP66/IP67/IP69
Flange: 103X230MM

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	2	>300-500	>50		408.16832 ¹⁾	1/10	408.32832 ¹⁾	1/10
	3	DC	>50-250		408.16834 ²⁾	1/10	408.32834 ²⁾	1/10
	4	50 60	100-130		408.1670	1/10	408.3270	1/10
	6	50 60	200-250		408.1683	1/10	408.3283	1/10
	7	50 60	480-500		408.16836	1/10	408.32836	1/10
	8	DC	>250		408.16838 ²⁾	1/10	408.32838 ²⁾	1/10
	9	50 60	380-415		408.1678	1/10	408.3278	1/10
	12	50 60	TST>50		408.16833	1/10	408.32833	1/10
	3P+E	2	>300-500	>50		408.16862 ¹⁾	1/10	408.32862 ¹⁾
3		50 60	380 50Hz / 440 60Hz		408.16864	1/10	408.32864	1/10
4		50 60	100-130		408.1672	1/10	408.3272	1/10
5		50 60	600-690		408.16867 ³⁾	1/10	408.32867 ³⁾	1/10
6		50 60	380-415		408.1686	1/10	408.3286	1/10
7		50 60	480-500		408.16866	1/10	408.32866	1/10
9		50 60	200-250		408.1674	1/10	408.3274	1/10
10		100-300	>50		408.16861 ¹⁾	1/10	408.32861 ¹⁾	1/10
11		60	440-460		408.16865	1/10	408.32865	1/10
3P+N+E	2	>300-500	>50		408.16872 ¹⁾	1/10	408.32872 ¹⁾	1/10
	3	50 60	380 50Hz / 440 60Hz		408.16874	1/10	408.32874	1/10
	4	50 60	100-130		408.1679	1/10	408.3279	1/10
	5	50 60	600-690		408.16877 ³⁾	1/10	408.32877 ³⁾	1/10
	6	50 60	346-415		408.1687	1/10	408.3287	1/10
	7	50 60	480-500		408.16876	1/10	408.32876	1/10
	9	50 60	208-250		408.1675	1/10	408.3275	1/10
11	60	440-460		408.16875	1/10	408.32875	1/10	

Supplied with stainless steel fixing screws.
Pre-wired connection cables provided.

¹⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾ When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

■ WITH FUSE CARRIER >> SURFACE MOUNTING >> IP66/IP67/IP69



IP: IP66/IP67/IP69

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	2	>300-500	>50		508.16832 ¹⁾	1/10	508.32832 ¹⁾	1/10
	3	DC	>50-250		508.16834 ²⁾	1/10	508.32834 ²⁾	1/10
	4	50 60	100-130		508.1670	1/10	508.3270	1/10
	6	50 60	200-250		508.1683	1/10	508.3283	1/10
	7	50 60	480-500		508.16836	1/10	508.32836	1/10
	8	DC	>250		508.16838 ²⁾	1/10	508.32838 ²⁾	1/10
	9	50 60	380-415		508.1678	1/10	508.3278	1/10
	12	50 60	TST>50		508.16833	1/10	508.32833	1/10
3P+E	2	>300-500	>50		508.16862 ¹⁾	1/10	508.32862 ¹⁾	1/10
	3	50 60	380 50Hz / 440 60Hz		508.16864	1/10	508.32864	1/10
	4	50 60	100-130		508.1672	1/10	508.3272	1/10
	5	50 60	600-690		508.16867 ³⁾	1/10	508.32867 ³⁾	1/10
	6	50 60	380-415		508.1686	1/10	508.3286	1/10
	7	50 60	480-500		508.16866	1/10	508.32866	1/10
	9	50 60	200-250		508.1674	1/10	508.3274	1/10
	10	100-300	>50		508.16861 ¹⁾	1/10	508.32861 ¹⁾	1/10
11	60	440-460		508.16865	1/10	508.32865	1/10	
3P+N+E	2	>300-500	>50		508.16872 ¹⁾	1/10	508.32872 ¹⁾	1/10
	3	50 60	380 50Hz / 440 60Hz		508.16874	1/10	508.32874	1/10
	4	50 60	100-130		508.1679	1/10	508.3279	1/10
	5	50 60	600-690		508.16877 ³⁾	1/10	508.32877 ³⁾	1/10
	6	50 60	346-415		508.1687	1/10	508.3287	1/10
	7	50 60	480-500		508.16876	1/10	508.32876	1/10
	9	50 60	208-250		508.1675	1/10	508.3275	1/10
11	60	440-460		508.16875	1/10	508.32875	1/10	

Blank side with drilling point marks.
Top and bottom side cable entry.

¹⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾ When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS

PROXIMA System

■ EXTRA LOW VOLTAGE <50V >> FLUSH MOUNTING >> WITH SAFETY TRANSFORMER - IP66/IP67/IP69



Poles	Hz	Volt	Colour	16A	
2P	50 60	24		407.2416	

Supplied with stainless steel fixing screws.
 Pre-wired connection cables provided.
 With electrical block switch that operates on the transformer primary or that, if duly connected, can activate relays and contactors.
 SELV transformer 220/24V- 150VA (continuous duty).
 Provided protections: primary circuit (2A), secondary circuit (6A), fuses included.

IP: IP66/IP67/IP69
Flange: 103X230MM

■ EXTRA LOW VOLTAGE <50V >> FLUSH MOUNTING >> WITHOUT SAFETY TRANSFORMER - IP66/IP67/IP69



Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		407.2420		407.2620 ¹⁾	
	12	50 60	40-50		407.2421		407.2621 ¹⁾	

Supplied with stainless steel fixing screws.
 Pre-wired connection cables provided.
¹⁾With electrical block switch that operates on the transformer primary or that, if duly connected, can activate relays and contactors.

IP: IP66/IP67/IP69
Flange: 103X230MM

Details matters



P R O X I M A



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS PROXIMA System




Components

Series of modular bases for wall installation of single sockets or distribution assemblies in configuration with 2 or 3 sockets, with junction box or consumer unit.

The flat profiled door of the consumer unit has the particularity of the concealed opening system, which can be equipped on request with a yale key.

The fixing points with open slot and the hook integrated in the rear part of the bases simplify the wall installation operations.

The drilling centers give maximum flexibility at the installation level.

 technical sheet p. 778

Technical information

Main characteristics



01 Pressure window closing system (Yale key on request)

02 Slotted lower fixing points to facilitate wall fixing operations

03 Integrated external fixing points

04 Metal bracket to facilitate wall fixing during installation procedure

05 Blank sides with drilling point marks

06 Full flat window to prevent dirt and dust deposit

COMPONENTS FOR SURFACE MOUNTING INSTALLATION



Description	IP	Dimensions	Flange	Notes	Code	
MODULAR BASE	IP66/IP67/IP69	107X259X79MM	103X230MM	1x16A-32A	573.5100	1/5



Description	IP	Flange	Notes	Code	
FLANGE ADAPTER	IP65	103X230MM	1x63A [100x110mm]	573.5001	1/5



Description	IP	Flange	Notes	Code	
FLANGE ADAPTER	IP65	103X230MM	2x16A[70x87mm]	573.5002	1/5



Description	IP	Flange	Notes	Code	
FLANGE ADAPTER	IP65	103X230MM	3xDOMO [50x60mm]	573.5003	1/5



Description	IP	Flange	Notes	Code	
BASE BLANK COVER	IP65	103X230MM	BLANK	573.5000	1/5



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS PROXIMA System

COMPONENTS FOR SURFACE MOUNTING INSTALLATION >> 1 PROXIMA + CONSUMER UNITS



Description	IP	Dimensions	Notes	Code	
MODULAR BASE	IP65	107X438X110MM	1x16A-32A + 5 DIN	573.5111	1
		140X485X110MM	1x63A + 7 DIN	573.5211	1

COMPONENTS FOR SURFACE MOUNTING INSTALLATION >> 2 PROXIMA + CONSUMER UNITS



Description	IP	Dimensions	Notes	Code	
MODULAR BASE	IP65	212X438X110MM	2x16A-32A + 10 DIN	573.5121	1

COMPONENTS FOR SURFACE MOUNTING INSTALLATION >> 3 PROXIMA + CONSUMER UNITS



Description	IP	Dimensions	Notes	Code	
MODULAR BASE	IP65	317X438X110MM	3x16A-32A + 16 DIN	573.5131	1



Description	IP	Dimensions	Notes	Code	
DISTRIBUTION ASSEMBLY	IP65	477X550X156MM	2x16A-32A 1x63A + 24DIN	573.5351	1

Lower positioned cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series.

COMPONENTS FOR SURFACE MOUNTING INSTALLATION >> 4 PROXIMA + CONSUMER UNITS



Description	IP	Dimensions	Notes	Code	
DISTRIBUTION ASSEMBLY	IP65	477X550X156MM	4x16A-32A + 24DIN	573.5381	1

Lower positioned cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series.

■ COMPONENTS FOR SURFACE MOUNTING INSTALLATION >> 1 PROXIMA + JUNCTION BOX



Description	IP	Dimensions	Notes	Code	
MODULAR BASE	IP66	107X438X110MM	1x16A-32A + BOX	573.5110	1
		140X485X110MM	1x63A + BOX	573.5210	1

■ COMPONENTS FOR SURFACE MOUNTING INSTALLATION >> 2 PROXIMA + JUNCTION BOX



Description	IP	Dimensions	Notes	Code	
MODULAR BASE	IP66	212X438X110MM	2x16A-32A + BOX	573.5120	1

■ COMPONENTS FOR SURFACE MOUNTING INSTALLATION >> 3 PROXIMA + JUNCTION BOX



Description	IP	Dimensions	Notes	Code	
MODULAR BASE	IP66	317X438X110MM	3x16A-32A + BOX	573.5130	1



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS
OMNIA System



OMNIA SYSTEM

OMNIA SERIES

p. 188

Compact industrial switched interlocked socket outlets



OMNIAPLUS SERIES

p. 200

Compact domestic switched interlocked socket outlets



COMPONENTS

p. 204

Modular enclosures and installation accessories



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS OMNIA System

136x125mm

OMNIA Series 16A-32A OMNIAPLUS Series




ISOLATORS-TP Series OMNIA Series 63A

136x275mm



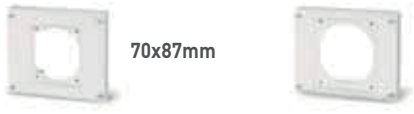
OPTIMA Series DOMO Series DOMOPLUS Series



OMNIA System - Components

Flange adaptors

136x125mm




70x87mm 84x106mm

654.0125 654.0126

OMNIA System - Components


FLUSH MOUNTING BOXES



Frame	Single for masonry wall	Single for plasterboard wall
572.0220	572.0200	572.0205

SURFACE MOUNTING BOXES

SURFACE MOUNTING MODULAR BASES



	Single	Single	Double	Double with junction box	Triple with junction box	Quadruple with junction box	Double with consumer unit	Triple with consumer unit	Quadruple with consumer unit
16A-32A	572.0310*		572.0322	572.0312	572.0314	572.0316	572.0311	572.0313	572.0315
63A		572.0308							

* 572.0309 for 32A fuse version

Combination examples



Flush mounting combination
186



Surface mounting box combination



Surface mounting modular base combinations

Compatibility

DOMINO IP66 Series



672.1200



672.2200



672.3200



672.4216



672.5316



672.5416



672.5522



672.5622

MBOX Series

MBOX2



656.0024-000

MBOX3



657.0035-000
657.0036-000
657.0037-000

MBOX5



658.0050-000
658.0051-000

ADVANCE2 System - Components

Modular plate
LARGE 136 MODULE



576.4340

Combination examples



DOMINO IP66



MBOX



ADVANCE2

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS OMNIA System



OMNIA Series

OMNIA is a complete range of interlocked socket outlets from 16 to 63A, fused or without fuse, with compact dimensions and great installation flexibility.

Available as flush mounting or surface mounting version in single configurations or up to 4 sockets through a modular base system even provided with junction box or consumer unit.

OMNIA in flush mounting configuration finds its ideal use in the tertiary sector, but the dimensions of the flange allow it to be installed in the DOMINO and MBOX distribution assemblies for industrial and construction site applications, taking advantage of the modularity that has always been at the base of the SCAME systems.

 technical sheet p. 768

Technical information

Main characteristics 16A-32A



01 Clear indication of open or closed position

02 Handle with increased ergonomony and reduced protrusion to limit dirt deposits

03 Padlockable in the ON and OFF position

04 AC23 switch

05 Captive stainless steel closing screws

Compact.
Only in size.



O M N I A

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS

OMNIA System

■ WITHOUT FUSE CARRIER >> FLUSH MOUNTING >> IP44



IP: IP44
Flange: 136X125MM

Poles	h	Hz	Volt	Colour	16A	1/6	32A	1/6
2P+E	2	>300-500	>50	Green	400.16832 ¹⁾	1/6	400.32832 ¹⁾	1/6
	3	DC	>50-250	Grey	400.16834 ²⁾	1/6	400.32834 ²⁾	1/6
	4	50 60	100-130	Yellow	400.1670	1/6	400.3270	1/6
	6	50 60	200-250	Blue	400.1683	6	400.3283	1/6
	7	50 60	480-500	Black	400.16836	1/6	400.32836	1/6
	8	DC	>250	Grey	400.16838 ²⁾	1/6	400.32838 ²⁾	1/6
	9	50 60	380-415	Red	400.1678	1/6	400.3278	1/6
	12	50 60	TST>50	Grey	400.16833	1/6	400.32833	1/6
3P+E	2	>300-500	>50	Green	400.16862 ¹⁾	1/6	400.32862 ¹⁾	1/6
	3	50 60	380 50Hz / 440 60Hz	Red	400.16864	1/6	400.32864	1/6
	4	50 60	100-130	Yellow	400.1672	1/6	400.3272	1/6
	5	50 60	600-690	Black	400.16867 ³⁾	1/6	400.32867 ³⁾	1/6
	6	50 60	380-415	Red	400.1686	6	400.3286	6
	7	50 60	480-500	Black	400.16866	1/6	400.32866	1/6
	9	50 60	200-250	Blue	400.1674	1/6	400.3274	1/6
	10	100-300	>50	Green	400.16861 ¹⁾	1/6	400.32861 ¹⁾	1/6
3P+N+E	11	60	440-460	Red	400.16865	1/6	400.32865	1/6
	2	>300-500	>50	Green	400.16872 ¹⁾	1/6	400.32872 ¹⁾	1/6
	3	50 60	380 50Hz / 440 60Hz	Red	400.16874	1/6	400.32874	1/6
	4	50 60	100-130	Yellow	400.1679	1/6	400.3279	1/6
	5	50 60	600-690	Black	400.16877 ³⁾	1/6	400.32877 ³⁾	1/6
	6	50 60	346-415	Red	400.1687	6	400.3287	6
	7	50 60	480-500	Black	400.16876	1/6	400.32876	1/6
	9	50 60	208-250	Blue	400.1675	1/6	400.3275	1/6
11	60	440-460	Red	400.16875	1/6	400.32875	1/6	

Supplied with stainless steel fixing screws.

¹⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾ When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

■ WITHOUT FUSE CARRIER >> FLUSH MOUNTING >> IP66/IP67



IP: IP66/IP67
Flange: 136X125MM

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	2	>300-500	>50		405.16832 ¹⁾	1/6	405.32832 ¹⁾	1/6
	3	DC	>50-250		405.16834 ²⁾	1/6	405.32834 ²⁾	1/6
	4	50 60	100-130		405.1670	1/6	405.3270	1/6
	6	50 60	200-250		405.1683	6	405.3283	6
	7	50 60	480-500		405.16836	1/6	405.32836	1/6
	8	DC	>250		405.16838 ²⁾	1/6	405.32838 ²⁾	1/6
	9	50 60	380-415		405.1678	1/6	405.3278	1/6
	12	50 60	TST>50		405.16833	1/6	405.32833	1/6
3P+E	2	>300-500	>50		405.16862 ¹⁾	1/6	405.32862 ¹⁾	1/6
	3	50 60	380 50Hz / 440 60Hz		405.16864	1/6	405.32864	1/6
	4	50 60	100-130		405.1672	1/6	405.3272	1/6
	5	50 60	600-690		405.16867 ³⁾	1/6	405.32867 ³⁾	1/6
	6	50 60	380-415		405.1686	6	405.3286	6
	7	50 60	480-500		405.16866	1/6	405.32866	1/6
	9	50 60	200-250		405.1674	1/6	405.3274	1/6
	10	100-300	>50		405.16861 ¹⁾	1/6	405.32861 ¹⁾	1/6
3P+N+E	11	60	440-460		405.16865	1/6	405.32865	1/6
	2	>300-500	>50		405.16872 ¹⁾	1/6	405.32872 ¹⁾	1/6
	3	50 60	380 50Hz / 440 60Hz		405.16874	1/6	405.32874	1/6
	4	50 60	100-130		405.1679	1/6	405.3279	1/6
	5	50 60	600-690		405.16877 ³⁾	1/6	405.32877 ³⁾	1/6
	6	50 60	346-415		405.1687	6	405.3287	6
	7	50 60	480-500		405.16876	1/6	405.32876	1/6
	9	50 60	208-250		405.1675	1/6	405.3275	1/6
11	60	440-460		405.16875	1/6	405.32875	1/6	



IP: IP66/IP67
Flange: 136X275MM

Poles	h	Hz	Volt	Colour	63A	
2P+E	4	50 60	100-130		405.6370	1/6
	6	50 60	200-250		405.6383	1/6
	7	50 60	480-500		405.63836	1/6
	9	50 60	380-415		405.6378	1/6
	12	50 60	TST>50		405.63833	1/6
3P+E	4	50 60	100-130		405.6372	1/6
	5	50 60	600-690		405.63867 ³⁾	1/6
	6	50 60	380-415		405.6386	1/6
	7	50 60	480-500		405.63866	1/6
	9	50 60	200-250		405.6374	1/6
3P+N+E	11	60	440-460		405.63865	1/6
	4	50 60	100-130		405.6379	1/6
	5	50 60	600-690		405.63877 ³⁾	1/6
	6	50 60	346-415		405.6387	1/6
	7	50 60	480-500		405.63876	1/6
9	50 60	208-250		405.6375	1/6	
11	60	440-460		405.63875	1/6	

Supplied with stainless steel fixing screws.

¹⁾The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS OMNIA System

■ WITHOUT FUSE CARRIER >> SURFACE MOUNTING >> IP44



IP: IP44
Flange: 136X125MM

Poles	h	Hz	Volt	Colour	16A	1/6	32A	1/6
2P+E	2	>300-500	>50	Green	500.16832 ¹⁾	1/6	500.32832 ¹⁾	1/6
	3	DC	>50-250	Grey	500.16834 ²⁾	1/6	500.32834 ²⁾	1/6
	4	50 60	100-130	Yellow	500.1670	1/6	500.3270	1/6
	6	50 60	200-250	Blue	500.1683	6	500.3283	1/6
	7	50 60	480-500	Black	500.16836	1/6	500.32836	1/6
	8	DC	>250	Grey	500.16838 ²⁾	1/6	500.32838 ²⁾	1/6
	9	50 60	380-415	Red	500.1678	1/6	500.3278	1/6
	12	50 60	TST>50	Grey	500.16833	1/6	500.32833	1/6
	3P+E	2	>300-500	>50	Green	500.16862 ¹⁾	1/6	500.32862 ¹⁾
3		50 60	380 50Hz / 440 60Hz	Red	500.16864	1/6	500.32864	1/6
4		50 60	100-130	Yellow	500.1672	1/6	500.3272	1/6
5		50 60	600-690	Black	500.16867 ³⁾	1/6	500.32867 ³⁾	1/6
6		50 60	380-415	Red	500.1686	1/6	500.3286	1/6
7		50 60	480-500	Black	500.16866	1/6	500.32866	1/6
9		50 60	200-250	Blue	500.1674	1/6	500.3274	1/6
10		100-300	>50	Green	500.16861 ¹⁾	1/6	500.32861 ¹⁾	1/6
11		60	440-460	Red	500.16865	1/6	500.32865	1/6
3P+N+E	2	>300-500	>50	Green	500.16872 ¹⁾	1/6	500.32872 ¹⁾	1/6
	3	50 60	380 50Hz / 440 60Hz	Red	500.16874	1/6	500.32874	1/6
	4	50 60	100-130	Yellow	500.1679	1/6	500.3279	1/6
	5	50 60	600-690	Black	500.16877 ³⁾	1/6	500.32877 ³⁾	1/6
	6	50 60	346-415	Red	500.1687	6	500.3287	6
	7	50 60	480-500	Black	500.16876	1/6	500.32876	1/6
	9	50 60	208-250	Blue	500.1675	1/6	500.3275	1/6
	11	60	440-460	Red	500.16875	1/6	500.32875	1/6

Blank side with drilling point marks.

Note: in case of mounting with ADVANCE2 System, use METRIC drilling point mark.

¹⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾ When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

■ WITHOUT FUSE CARRIER >> SURFACE MOUNTING >> IP66/IP67



IP: IP66/IP67
Flange: 136X125MM

Poles	h	Hz	Volt	Colour	16A	1/6	32A	1/6
2P+E	2	>300-500	>50	Green	505.16832 ¹⁾	1/6	505.32832 ¹⁾	1/6
	3	DC	>50-250	Grey	505.16834 ²⁾	1/6	505.32834 ²⁾	1/6
	4	50 60	100-130	Yellow	505.1670	1/6	505.3270	1/6
	6	50 60	200-250	Blue	505.1683	6	505.3283	1/6
	7	50 60	480-500	Black	505.16836	1/6	505.32836	1/6
	8	DC	>250	Grey	505.16838 ²⁾	1/6	505.32838 ²⁾	1/6
	9	50 60	380-415	Red	505.1678	1/6	505.3278	1/6
	12	50 60	TST>50	Grey	505.16833	1/6	505.32833	1/6
3P+E	2	>300-500	>50	Green	505.16862 ¹⁾	1/6	505.32862 ¹⁾	1/6
	3	50 60	380 50Hz / 440 60Hz	Red	505.16864	1/6	505.32864	1/6
	4	50 60	100-130	Yellow	505.1672	1/6	505.3272	1/6
	5	50 60	600-690	Black	505.16867 ³⁾	1/6	505.32867 ³⁾	1/6
	6	50 60	380-415	Red	505.1686	1/6	505.3286	1/6
	7	50 60	480-500	Black	505.16866	1/6	505.32866	1/6
	9	50 60	200-250	Blue	505.1674	1/6	505.3274	1/6
	10	100-300	>50	Green	505.16861 ¹⁾	1/6	505.32861 ¹⁾	1/6
3P+N+E	11	60	440-460	Red	505.16865	1/6	505.32865	1/6
	2	>300-500	>50	Green	505.16872 ¹⁾	1/6	505.32872 ¹⁾	1/6
	3	50 60	380 50Hz / 440 60Hz	Red	505.16874	1/6	505.32874	1/6
	4	50 60	100-130	Yellow	505.1679	1/6	505.3279	1/6
	5	50 60	600-690	Black	505.16877 ³⁾	1/6	505.32877 ³⁾	1/6
	6	50 60	346-415	Red	505.1687	1/6	505.3287	1/6
	7	50 60	480-500	Black	505.16876	1/6	505.32876	1/6
	9	50 60	208-250	Blue	505.1675	1/6	505.3275	1/6
11	60	440-460	Red	505.16875	1/6	505.32875	1/6	



IP: IP66/IP67
Flange: 136X275MM

Poles	h	Hz	Volt	Colour	63A	1/6
2P+E	3	DC	>50-250	Grey	505.63834 ²⁾	1/6
	4	50 60	100-130	Yellow	505.6370	1/6
	6	50 60	200-250	Blue	505.6383	1/6
	7	50 60	480-500	Black	505.63836	1/6
	9	50 60	380-415	Red	505.6378	1/6
3P+E	12	50 60	TST>50	Grey	505.63833	1/6
	4	50 60	100-130	Yellow	505.6372	1/6
	5	50 60	600-690	Black	505.63867 ³⁾	1/6
	6	50 60	380-415	Red	505.6386	1/6
	7	50 60	480-500	Black	505.63866	1/6
3P+N+E	9	50 60	200-250	Blue	505.6374	1/6
	11	60	440-460	Red	505.63865	1/6
	4	50 60	100-130	Yellow	505.6379	1/6
	5	50 60	600-690	Black	505.63877 ³⁾	1/6
	6	50 60	346-415	Red	505.6387	1/6
3P+N+E	7	50 60	480-500	Black	505.63876	1/6
	9	50 60	208-250	Blue	505.6375	1/6
	11	60	440-460	Red	505.63875	1/6

Blank side with drilling point marks.

Note: in case of mounting with ADVANCE2 System, use METRIC drilling point mark.

¹⁾The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.



OMNIA SYSTEM
OMNIA SERIES

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS

OMNIA System

■ WITH FUSE CARRIER >> FLUSH MOUNTING >> IP44



IP: IP44
Flange: 136X125MM

Poles	h	Hz	Volt	Colour	16A	1/6	32A	1/6
2P+E	2	>300-500	>50	Green	401.16832 ¹⁾	1/6		
	3	DC	>50-250	Grey	401.16834 ²⁾	1/6		
	4	50 60	100-130	Yellow	401.1670	1/6	401.3270	1/6
	6	50 60	200-250	Blue	401.1683	6	401.3283	1/6
	7	50 60	480-500	Black	401.16836	1/6		
	8	DC	>250	Grey	401.16838 ²⁾	1/6		
	9	50 60	380-415	Red	401.1678	1/6	401.3278	1/6
	12	50 60	TST>50	Grey	401.16833	1/6		
	3P+E	2	>300-500	>50	Green	401.16862 ¹⁾	1/6	
3		50 60	380 50Hz / 440 60Hz	Red	401.16864	1/6		
4		50 60	100-130	Yellow	401.1672	1/6	401.3272	1/6
5		50 60	600-690	Black	401.16867 ³⁾	1/6		
6		50 60	380-415	Red	401.1686	6	401.3286	1/6
7		50 60	480-500	Black	401.16866	1/6		
9		50 60	200-250	Blue	401.1674	1/6	401.3274	1/6
10		100-300	>50	Green	401.16861 ¹⁾	1/6		
3P+N+E	11	60	440-460	Red	401.16865	1/6		
	2	>300-500	>50	Green	401.16872 ¹⁾	1/6		
	3	50 60	380 50Hz / 440 60Hz	Red	401.16874	1/6		
	4	50 60	100-130	Yellow	401.1679	1/6	401.3279	1/6
	5	50 60	600-690	Black	401.16877 ³⁾	1/6		
	6	50 60	346-415	Red	401.1687	6	401.3287	1/6
	7	50 60	480-500	Black	401.16876	1/6		
	9	50 60	208-250	Blue	401.1675	1/6	401.3275	1/6
11	60	440-460	Red	401.16875	1/6			

Supplied with stainless steel fixing screws.
Fuses not supplied.

¹⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾ When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

■ WITH FUSE CARRIER >> FLUSH MOUNTING >> IP66/IP67



IP: IP66/IP67
Flange: 136X125MM

Poles	h	Hz	Volt	Colour	16A	32A		
2P+E	2	>300-500	>50	Green	406.16832 ¹⁾	1/6		
	3	DC	>50-250	Grey	406.16834 ²⁾	1/6		
	4	50 60	100-130	Yellow	406.1670	1/6	406.3270	1/6
	6	50 60	200-250	Blue	406.1683	6	406.3283	6
	7	50 60	480-500	Black	406.16836	1/6		
	8	DC	>250	Grey	406.16838 ²⁾	1/6		
	9	50 60	380-415	Red	406.1678	1/6	406.3278	1/6
	12	50 60	TST>50	Grey	406.16833	1/6		
3P+E	2	>300-500	>50	Green	406.16862 ¹⁾	1/6		
	3	50 60	380 50Hz / 440 60Hz	Red	406.16864	1/6		
	4	50 60	100-130	Yellow	406.1672	1/6	406.3272	1/6
	5	50 60	600-690	Black	406.16867 ³⁾	1/6		
	6	50 60	380-415	Red	406.1686	6	406.3286	6
	7	50 60	480-500	Black	406.16866	1/6		
	9	50 60	200-250	Blue	406.1674	1/6	406.3274	1/6
	10	100-300	>50	Green	406.16861 ¹⁾	1/6		
11	60	440-460	Red	406.16865	1/6			
3P+N+E	2	>300-500	>50	Green	406.16872 ¹⁾	1/6		
	3	50 60	380 50Hz / 440 60Hz	Red	406.16874	1/6		
	4	50 60	100-130	Yellow	406.1679	1/6	406.3279	1/6
	5	50 60	600-690	Black	406.16877 ³⁾	1/6		
	6	50 60	346-415	Red	406.1687	6	406.3287	6
	7	50 60	480-500	Black	406.16876	1/6		
	9	50 60	208-250	Blue	406.1675	1/6	406.3275	1/6
	11	60	440-460	Red	406.16875	1/6		

Supplied with stainless steel fixing screws.
Fuses not supplied.

¹⁾The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS

OMNIA System

■ WITH FUSE CARRIER >> SURFACE MOUNTING >> IP44



IP: IP44
Flange: 136X125MM

Poles	h	Hz	Volt	Colour	16A	1/6	32A	1/6
2P+E	2	>300-500	>50	Green	501.16832 ¹⁾	1/6		
	3	DC	>50-250	Grey	501.16834 ²⁾	1/6		
	4	50 60	100-130	Yellow	501.1670	1/6	501.3270	1/6
	6	50 60	200-250	Blue	501.1683	1/6	501.3283	1/6
	7	50 60	480-500	Black	501.16836	1/6		
	8	DC	>250	Grey	501.16838 ²⁾	1/6		
	9	50 60	380-415	Red	501.1678	1/6	501.3278	1/6
	12	50 60	TST>50	Grey	501.16833	1/6		
3P+E	2	>300-500	>50	Green	501.16862 ¹⁾	1/6		
	3	50 60	380 50Hz / 440 60Hz	Red	501.16864	1/6		
	4	50 60	100-130	Yellow	501.1672	1/6	501.3272	1/6
	5	50 60	600-690	Black	501.16867 ³⁾	1/6		
	6	50 60	380-415	Red	501.16866	1/6	501.3286	1/6
	7	50 60	480-500	Black	501.16866	1/6		
	9	50 60	200-250	Blue	501.1674	1/6	501.3274	1/6
	10	100-300	>50	Green	501.16861 ¹⁾	1/6		
3P+N+E	11	60	440-460	Red	501.16865	1/6		
	2	>300-500	>50	Green	501.16872 ¹⁾	1/6		
	3	50 60	380 50Hz / 440 60Hz	Red	501.16874	1/6		
	4	50 60	100-130	Yellow	501.1679	1/6	501.3279	1/6
	5	50 60	600-690	Black	501.16877 ³⁾	1/6		
	6	50 60	346-415	Red	501.1687	1/6	501.3287	1/6
	7	50 60	480-500	Black	501.16876	1/6		
	9	50 60	208-250	Blue	501.1675	1/6	501.3275	1/6
11	60	440-460	Red	501.16875	1/6			

Blank side with drilling point marks.

Note: in case of mounting with ADVANCE2 System, use METRIC drilling point mark.

Fuses not supplied.

¹⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾ When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

■ WITH FUSE CARRIER >> SURFACE MOUNTING >> IP66/IP67



IP: IP66/IP67
Flange: 136X125MM

Poles	h	Hz	Volt	Colour	16A	32A		
2P+E	2	>300-500	>50	Green	506.16832 ¹⁾	1/6		
	3	DC	>50-250	Grey	506.16834 ²⁾	1/6		
	4	50 60	100-130	Yellow	506.1670	1/6	506.3270	1/6
	6	50 60	200-250	Blue	506.1683	6	506.3283	1/6
	7	50 60	480-500	Black	506.16836	1/6		
	8	DC	>250	Grey	506.16838 ²⁾	1/6		
	9	50 60	380-415	Red	506.1678	1/6	506.3278	1/6
	12	50 60	TST>50	Grey	506.16833	1/6		
3P+E	2	>300-500	>50	Green	506.16862 ¹⁾	1/6		
	3	50 60	380 50Hz / 440 60Hz	Red	506.16864	1/6		
	4	50 60	100-130	Yellow	506.1672	1/6	506.3272	1/6
	5	50 60	600-690	Black	506.16867 ³⁾	1/6		
	6	50 60	380-415	Red	506.1686	1/6	506.3286	1/6
	7	50 60	480-500	Black	506.16866	1/6		
	9	50 60	200-250	Blue	506.1674	1/6	506.3274	1/6
	10	100-300	>50	Green	506.16861 ¹⁾	1/6		
11	60	440-460	Red	506.16865	1/6			
3P+N+E	2	>300-500	>50	Green	506.16872 ¹⁾	1/6		
	3	50 60	380 50Hz / 440 60Hz	Red	506.16874	1/6		
	4	50 60	100-130	Yellow	506.1679	1/6	506.3279	1/6
	5	50 60	600-690	Black	506.16877 ³⁾	1/6		
	6	50 60	346-415	Red	506.1687	1/6	506.3287	1/6
	7	50 60	480-500	Black	506.16876	1/6		
	9	50 60	208-250	Blue	506.1675	1/6	506.3275	1/6
	11	60	440-460	Red	506.16875	1/6		

Blank side with drilling point marks.

Note: in case of mounting with ADVANCE2 System, use METRIC drilling point mark.

Fuses not supplied.

¹⁾The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS OMNIA System

■ EXTRA LOW VOLTAGE <50V >> FLUSH MOUNTING (WITH SAFETY TRANSFORMER) >> WITH SAFETY TRANSFORMER - IP44



Poles	Hz	Volt	Colour	16A	
2P	50 60	24		400.2416	6

With electrical block switch that operates on the transformer primary or that, if duly connected, can activate relays and contactors.
SELV transformer 220/24V- 60VA (continuous duty).
Unsuitable for ADVANCE2 System. Use box ref. 572.0309.

IP: IP44
Flange: 136X125MM

■ EXTRA LOW VOLTAGE <50V >> FLUSH MOUNTING (WITH SAFETY TRANSFORMER) >> WITH SAFETY TRANSFORMER - IP66/IP67



Poles	Hz	Volt	Colour	16A	
2P	50 60	24		405.2416	6

With electrical block switch that operates on the transformer primary or that, if duly connected, can activate relays and contactors.
SELV transformer 220/24V- 60VA (continuous duty).
Unsuitable for ADVANCE2 System. Use box ref. 572.0309.

IP: IP66/IP67
Flange: 136X125MM

■ EXTRA LOW VOLTAGE <50V >> FLUSH MOUNTING (WITHOUT SAFETY TRANSFORMER) >> WITHOUT SAFETY TRANSFORMER - IP44



Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		400.2420	6	400.2620	6
	12	50 60	40-50		400.2421	6	400.2621	6

With electrical block switch that operates on the transformer primary or that, if duly connected, can activate relays and contactors.
The versions without transformer are particularly suitable for installations with centralised extra-low voltage transformer.

IP: IP44
Flange: 136X125MM

■ EXTRA LOW VOLTAGE <50V >> FLUSH MOUNTING (WITHOUT SAFETY TRANSFORMER) >> WITHOUT SAFETY TRANSFORMER - IP66/IP67



Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		405.2420	6	405.2620	6
	12	50 60	40-50		405.2421	6	405.2621	6

With electrical block switch that operates on the transformer primary or that, if duly connected, can activate relays and contactors.
The versions without transformer are particularly suitable for installations with centralised extra-low voltage transformer.

IP: IP66/IP67
Flange: 136X125MM

■ EXTRA LOW VOLTAGE <50V >> SURFACE MOUNTING >> WITHOUT SAFETY TRANSFORMER - IP44



Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		500.2420	6	500.2620	6
	12	50 60	40-50		500.2421	6	500.2621	6

Blank side with drilling point marks.

When plug is inserted a micro-switch is activated and closes the circuit.

Note: in case of mounting with ADVANCE2 System, use METRIC drilling point mark.

The versions without transformer are particularly suitable for installations with centralised extra-low voltage transformer.

IP: IP44
Flange: 136X125MM

■ EXTRA LOW VOLTAGE <50V >> SURFACE MOUNTING >> WITHOUT SAFETY TRANSFORMER - IP66/IP67



Poles	h	Hz	Volt	Colour	16A		32A	
2P		50 60	20-25		505.2420	6	505.2620	6
	12	50 60	40-50		505.2421	6	505.2621	6

Blank side with drilling point marks.

When plug is inserted a micro-switch is activated and closes the circuit.

Note: in case of mounting with ADVANCE2 System, use METRIC drilling point mark.

The versions without transformer are particularly suitable for installations with centralised extra-low voltage transformer.

IP: IP66/IP67
Flange: 136X125MM



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS OMNIA System




OMNIPLUS Series

OMNIPLUS is a range of watertight domestic socket outlets equipped with interlock mechanism.

Available in different international standards, with or without additional protections, they resume the dimensions and installation possibilities of the OMNIA series, with the particularity of guaranteeing the IP56 degree of protection even when the plug is inserted.

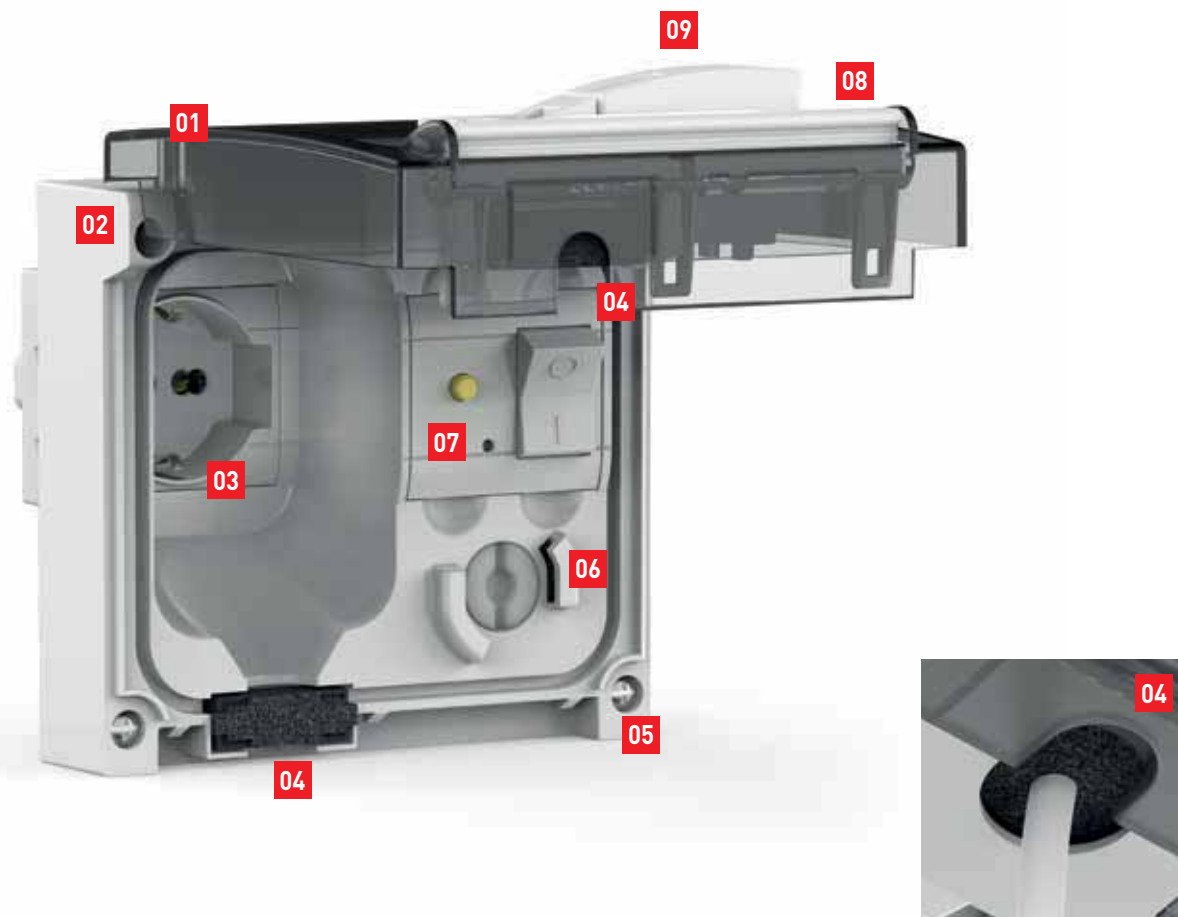
OMNIPLUS is a worldwide exclusive SCAME, suitable for feeding single-phase devices such as drills or milling machines in the tertiary, industrial and construction site sectors.

The padlocking of the knob makes it perfect for installation in public areas in the presence of unqualified personnel.

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Technical information

Main characteristics



- 01** Tinted polycarbonate cover to view the inside
- 02** Automatic closure with spring
- 03** Domestic sockets respecting the main international standards
- 04** Cable sleeve gaskets to maintain the IP56 degree of protection even with the plug inserted
- 05** Captive stainless steel closing screws
- 06** 1P+N switch
- 07** Available in versions without protection, with protection fuse, MCB or RCBO protection.
- 08** Cover fitted with wing to facilitate opening and closing operations
- 09** Padlockable closing knob with lock in position 0 and 1

Applications examples



Industrial kitchen

■ FLUSH MOUNTING >> WITHOUT PROTECTION



IP: IP56

Description	Type	Poles	Current	Volt	Code	
DOMESTIC INTERLOCKED SOCKET		2P+E	16A	250	409.0411	6
		2P+E	16A	250	409.0407	6
		2P+E	16A	250	409.0404	6
		2P+E	16A	250	409.0405	6
		2P+E	13A	250	409.0413	6
		2P+E	16A	250	409.0403	6
		2P+E	10A	250	409.0417	6
		2P+E	10A	250	409.0424	6
		2P+E	10A	250	409.0421	6
		2P+E	10A	250	409.0427	6
		2P+E	16A	250	409.0428	6
		2P+E	6A 16A	250	409.0429	6



French standard
2P+E 16A



German standard
2P+E 16A



Italian standard P17/11
2P+E 16A



Italian standard P30
2P+E 16A



Pluristandard P40
2P+E 16A



British standard
2P+E 13A



Swiss standard
2P+E 10A



Argentinian standard
2P+E 10A



Brazilian standard
2P+E 10A



New Zealand standard
2P+E 10A



South African standard
2P+E 16A



Indian standard
2P+E 6A-16A

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS

OMNIA System

FLUSH MOUNTING >> PROTECTION WITH FUSE 6.3X32MM



IP: IP56

Description	Type	Poles	Current	Volt	Code	
DOMESTIC INTERLOCKED SOCKET		2P+E	16A	250	409.1411	6
		2P+E	16A	250	409.1407	6
		2P+E	16A	250	409.1404	6
		2P+E	16A	250	409.1405	6
		2P+E	13A	250	409.1413	6
		2P+E	16A	250	409.1403	6
		2P+E	10A	250	409.1417	6
		2P+E	10A	250	409.1424	6
		2P+E	10A	250	409.1421	6
		2P+E	10A	250	409.1427	6
		2P+E	16A	250	409.1428	6
		2P+E	6A 16A	250	409.1429	6

Fuses supplied (MAX 10A).

FLUSH MOUNTING >> PROTECTION WITH MCB



IP: IP56

Description	Type	Poles	Current	Volt	Code	
DOMESTIC INTERLOCKED SOCKET		2P+E	16A	250	409.2411	6
		2P+E	16A	250	409.2407	6
		2P+E	16A	250	409.2404	6
		2P+E	16A	250	409.2405	6
		2P+E	13A	250	409.2413 ¹⁾	6
		2P+E	16A	250	409.2403	6
		2P+E	10A	250	409.2417 ¹⁾	6
		2P+E	10A	250	409.2424 ¹⁾	6
		2P+E	10A	250	409.2421 ¹⁾	6
		2P+E	10A	250	409.2427 ¹⁾	6
		2P+E	16A	250	409.2428	6
		2P+E	6A 16A	250	409.2429	6

¹⁾ 10A (C10).



French standard
2P+E 16A



German standard
2P+E 16A



Italian standard P17/11
2P+E 16A



Italian standard P30
2P+E 16A



Pluristandard P40
2P+E 16A



British standard
2P+E 13A



Swiss standard
2P+E 10A



Argentinian standard
2P+E 10A



Brazilian standard
2P+E 10A



New Zealand standard
2P+E 10A



South African standard
2P+E 16A



Indian standard
2P+E 6A-16A

■ FLUSH MOUNTING >> PROTECTION WITH RCBO



IP: IP56

Description	Type	Poles	Current	Volt	Code	
DOMESTIC INTERLOCKED SOCKET		2P+E	16A	250	409.3411	6
		2P+E	16A	250	409.3407	6
		2P+E	16A	250	409.3404	6
		2P+E	16A	250	409.3405	6
		2P+E	13A	250	409.3413 ¹⁾	6
		2P+E	16A	250	409.3403	6
		2P+E	10A	250	409.3417	6
		2P+E	10A	250	409.3424 ¹⁾	6
		2P+E	10A	250	409.3421 ¹⁾	6
		2P+E	10A	250	409.3427 ¹⁾	6
		2P+E	16A	250	409.3428	6
		2P+E	6A 16A	250	409.3429	6

¹⁾ 10A (C10).

OMNIA SYSTEM
OMNIPLUS SERIES

French standard 2P+E 16A	German standard 2P+E 16A	Italian standard P17/11 2P+E 16A	Italian standard P30 2P+E 16A	Pluristandard P40 2P+E 16A	British standard 2P+E 13A	Swiss standard 2P+E 10A	Argentinian standard 2P+E 10A	Brazilian standard 2P+E 10A
New Zealand standard 2P+E 10A	South African standard 2P+E 16A	Indian standard 2P+E 6A-16A						

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS

OMNIA System



Components

Modular enclosures available as flush mounting or surface mounting version in single configurations or up to 4 sockets even provided with junction box or consumer unit.

technical sheet **p. 772**

COMPONENTS FOR FLUSH MOUNTING INSTALLATION



Description	Dimensions	IP	Flange	Notes	Code	
FRAME	174x163x19mm	IP55	160X149MM	OMNIA 16A-32A	572.0220	6/60

IP55 when assembled together with the relevant component.
To be used in conjunction with flush-mounted boxes.



Description	Dimensions	IP	Flange	Notes	Code	
COUPLING INSERT				OMNIA 16A-32A	572.0210	6/60



Description	Dimensions	IP	Flange	Notes	Code	
BOX	160x149x72mm			OMNIA 16A-32A	572.0200	6

Complete with coupling insert
Suitable for being walled up in buried systems



Description	Dimensions	IP	Flange	Notes	Code	
BOX FOR PLASTERBOARD WALLS	160x149x75mm			OMNIA 16A-32A	572.0205	6

COMPONENTS FOR SURFACE MOUNTING INSTALLATION - BOX



Description	Dimensions	IP	Flange	Notes	Code	
BOX	135x125x70mm	IP67	136X125MM_ PAR	16A-32A	572.0310	6

Blank side with drilling point marks.
When joined with consumer unit [product 572.0120] [10W].
Not suitable for items 400.2416, 405.2416 and 32A fuse version.
IP67 when assembled together with the relevant component.



Description	Dimensions	IP	Flange	Notes	Code	
BOX	135x275x89mm	IP67	136X275MM_ PAR	63A	572.0308	6

Blank side with drilling point marks.
IP67 when assembled together with the relevant component.



Description	Dimensions	IP	Flange	Notes	Code	
BOX	136x125x98mm	IP67		32A FUSE	572.0309	6

Blank side with drilling point marks.
IP67 when assembled together with the relevant component.



Description	Dimensions	IP	Flange	Notes	Code	
ENCLOSURE FOR SWITCH	136x125x85mm	IP67		OMNIA	572.3390	6

Blank side with drilling point marks.
IP67 when assembled together with the relevant component.
For fitting with Y1 switch size panel mounting version (R) and relevant front operators handleless (IP65).



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS

OMNIA System

COMPONENTS FOR SURFACE MOUNTING INSTALLATION - EQUIPMENT ENCLOSURE MBOX



Description	Dimensions	IP	Flange	Notes	Code	
BOX FOR WIRING ACCESSORIES	136x275mm	IP67	136X275MM	2x16A/32A[OMNIA]	572.0322	1/10

Blank side with drilling point marks.
 IP67 when assembled together with the relevant component.
 Hole Ø 40.5 mm on the upper side.
 They can be fitted into the MBOX5 enclosures.
 For cable output, use tear-resistant cable glands fam. 805.



Description	Dimensions	IP	Flange	Notes	Code	
BOX FOR WIRING ACCESSORIES	136x275mm	IP67	136X275MM_		572.0320	1/6

Blank side with drilling point marks.
 Hole Ø 40.5 mm on the upper side.
 They can be fitted into the MBOX5 enclosures.
 For cable output, use tear-resistant cable glands fam. 805.



Description	Dimensions	IP	Flange	Notes	Code	
CONSUMER UNIT FOR ICP	136x275mm	IP55	136X275MM		572.0323	1

Blank side with drilling point marks.
 Hole Ø 40.5 mm on the upper side.
 They can be fitted into the MBOX5 enclosures.
 For cable output, use tear-resistant cable glands fam. 805.

COMPONENTS FOR SURFACE MOUNTING INSTALLATION



Description	Dimensions	IP	Code	
MODULAR BASE	136x472x146mm	IP66	572.0311	1

Blank side with drilling point marks.
 IP66 when coupled with the relevant component.
 Power dissipation calculated in conformity with CEI 23-49 italian standards.



Description	Dimensions	IP	Code	
MODULAR BASE	136x616x146mm	IP66	572.0313	1

Blank side with drilling point marks.
 IP66 when coupled with the relevant component.
 Power dissipation calculated in conformity with CEI 23-49 italian standards.



Description	Dimensions	IP	Code	
MODULAR BASE	287x408x146mm	IP66	572.0315	1

Blank side with drilling point marks.
IP66 when coupled with the relevant component.
Power dissipation calculated in conformity with CEI 23-49 italian standards.

COMPONENTS FOR SURFACE MOUNTING INSTALLATION



Description	Dimensions	IP	Code	
MODULAR ENCLOSURE	136x472x146mm	IP66	572.0312	1

Blank side with drilling point marks.
IP66 when coupled with the relevant component.
Power dissipation calculated in conformity with CEI 23-49 italian standards.



Description	Dimensions	IP	Code	
MODULAR ENCLOSURE	136x616x146mm	IP66	572.0314	1

Blank side with drilling point marks.
IP66 when coupled with the relevant component.
Power dissipation calculated in conformity with CEI 23-49 italian standards.



Description	Dimensions	IP	Code	
MODULAR ENCLOSURE	287x408x146mm	IP66	572.0316	1

Blank side with drilling point marks.
IP66 when coupled with the relevant component.
Power dissipation calculated in conformity with CEI 23-49 italian standards.

COMMON COMPONENTS >> CONSUMER UNIT ASSEMBLY



Description	Dimensions	IP	Flange	Notes	Code	
CONSUMER UNIT ASSEMBLY	136x125x25mm	IP55	136X125MM	6 DIN	572.0120	6

IP55 when assembled together with the relevant component.
Power dissipation calculated in conformity with CEI 23-49 italian standards.
When joined with surface mounting box (product 572.0310) [10W].
Complete with locking knob, triangular locking key and stainless steel fixing screws.
Installation in the flush mounting box through the frame item 572.0220.
DIN modules and supports included.
The consumer unit can also be installed in the IP66 DOMINO Series surface mounting enclosures.

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS

OMNIA System

ACCESSORIES FOR ENCLOSURES >> KIT FOLDING STAND



Description	Dimensions	Code	
STAND KIT	376x691x70mm	654.0610	1

Folding

ACCESSORIES FOR ENCLOSURES >> BLANK PLATES



Description	IP	Flange	Notes	Code	
BLANK COVER	IP66	136X125MM	OMNIA	654.0120	6/72

IP66 when coupled with the relevant component.
Covers for OMNIA Series cutouts.



Description	IP	Flange	Notes	Code	
COVER WITH INSERT	IP55	136X125MM	B-TICINO MODULES	654.0121	6

Modules snap into place.
Manufactured with the authorization from Bticino spa company and is suitable to house "Living International", "Luna", "Light" and "Light Tech" modules which are registered trademarks owned by Bticino.



Description	IP	Flange	Notes	Code	
COVER WITH INSERT	IP55	136X125MM	EVOLUTION MODULES	654.0122	6

Modules snap into place.



Description	IP	Flange	Notes	Code	
FLANGE ADAPTER	IP66	136X125MM	16A [70x87]	654.0125	1/6/72

IP66 when coupled with the relevant component.
Covers for OMNIA Series cutouts.



Description	IP	Flange	Notes	Code	
FLANGE ADAPTER	IP66	136X125MM	32A [84x106]	654.0126	1/6/72

IP66 when coupled with the relevant component.
Covers for OMNIA Series cutouts.

■ ACCESSORIES FOR ENCLOSURES >> BLANK PLATE FOR DIN MODULES



Description	Notes	Code	
BLANK PLATE FOR DIN MODULES	9x45mm	654.0420	25/400

When put between the modular devices these plates help to dissipate heat.
To be fixed on DIN rail.



Description	Notes	Code	
BLANK PLATE FOR DIN MODULES	18x45mm	654.0410	25/250

When put between the modular devices these plates help to dissipate heat.
To be fixed on DIN rail.



Description	Notes	Code	
BLANK PLATE FOR DIN MODULES	73x49mm	654.0400	25

When put between the modular devices these plates help to dissipate heat.

■ ACCESSORIES FOR ENCLOSURES >> CONTACT BLOCKS



Description	Colour	Switch size	Code	
NC CONTACT		F1 Y1 D1	590.PL004001 ¹⁾	10/60
		Y2	590.PL004003 ¹⁾	10
NO CONTACT		F1 Y1 D1	590.PL004002 ²⁾	10/60
		Y2	590.PL004004 ²⁾	10

Snap catch.

¹⁾NC=Normally closed.

²⁾NO=Normally open.

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE2 System



ADVANCE2 SYSTEM

ADVANCE2 SERIES

p. 213

Industrial switched interlocked socket outlets



COMPONENTS

p. 224

Modular fixing plates, enclosures and installation accessories



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE2 System



ADVANCE2 System - Components

MODULAR PLATES		JUNCTION BOXES AND CONSUMER UNITS				
		Box with flange 70x87mm	Single junction box	Double junction box	Single consumer unit	Double consumer unit
Module 106 (compact)	576.4300	⊕ 576.4303	⊕ 576.4301	⊕ 576.4304	⊕ 576.4302	⊕ 576.4305
Modula 136 (large)	576.4340	⊕ 576.4323	⊕ 576.4321	⊕ 576.4324	⊕ 576.4322	⊕ 576.4325

Combination examples



Compatibility





ADVANCE2 Series

ADVANCE2 is a complete range of industrial interlocked sockets available from 16 up to 125A.

The industrial sockets of this series are ideal for applications in purely industrial environments, while presenting itself with a particularly refined aesthetic design that makes it attractive as well as functional.

Convenient sockets to be wired by removing the cover, since all electrical connections can be made on the base where the control components, disconnectors and switches are fixed.

All the sockets are equipped with high-performance disconnectors, ergonomic knobs with possibility of locking by means of a padlock.

technical sheet p. 750

Technical information

Main characteristics

16A-32A-63A



01 Clear indication of open or closed position

02 Versions available with fuse-holder base or with DIN rail for the assembly of protection devices

03 AC23 switch

04 Padlockable in the ON and OFF position

05 Open threaded cable entry with cap and cable gland supplied

06 Captive stainless steel closing screws

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE2 System

■ WITHOUT FUSE CARRIER IP44



IP: IP44
Flange: 106X240MM

Poles	h	Hz	Volt	Colour	16A	1/12	32A	1/12
2P+E	2	>300-500	>50	Green	560.16832 ¹⁾	1/12	560.32832 ¹⁾	1/12
	3	DC	>50-250	Grey	560.16834 ²⁾	1/12	560.32834 ²⁾	1/12
	4	50 60	100-130	Yellow	560.1670	1/12	560.3270	1/12
	6	50 60	200-250	Blue	560.1683	1/12	560.3283	1/12
	7	50 60	480-500	Black	560.16836	1/12	560.32836	1/12
	8	DC	>250	Grey	560.16838 ²⁾	1/12	560.32838 ²⁾	1/12
	9	50 60	380-415	Red	560.1678	1/12	560.3278	1/12
	12	50 60	TST>50	Grey	560.16833	1/12	560.32833	1/12
3P+E	2	>300-500	>50	Green	560.16862 ¹⁾	1/12	560.32862 ¹⁾	1/12
	3	50 60	380 50Hz / 440 60Hz	Red	560.16864	1/12	560.32864	1/12
	4	50 60	100-130	Yellow	560.1672	1/12	560.3272	1/12
	5	50 60	600-690	Black	560.16867 ³⁾	1/12	560.32867 ³⁾	1/12
	6	50 60	380-415	Red	560.1686	1/12	560.3286	1/12
	7	50 60	480-500	Black	560.16866	1/12	560.32866	1/12
	9	50 60	200-250	Blue	560.1674	1/12	560.3274	1/12
	10	100-300	>50	Green	560.16861 ¹⁾	1/12	560.32861 ¹⁾	1/12
3P+N+E	11	60	440-460	Red	560.16865	1/12	560.32865	1/12
	2	>300-500	>50	Green	560.16872 ¹⁾	1/12	560.32872 ¹⁾	1/12
	3	50 60	380 50Hz / 440 60Hz	Red	560.16874	1/12	560.32874	1/12
	4	50 60	100-130	Yellow	560.1679	1/12	560.3279	1/12
	5	50 60	600-690	Black	560.16877 ³⁾	1/12	560.32877 ³⁾	1/12
	6	50 60	346-415	Red	560.1687	1/12	560.3287	1/12
	7	50 60	480-500	Black	560.16876	1/12	560.32876	1/12
	9	50 60	208-250	Blue	560.1675	1/12	560.3275	1/12
11	60	440-460	Red	560.16875	1/12	560.32875	1/12	

Open threaded cable entry.
Threaded cap/cable sleeve included.
Cable gland included.

¹⁾The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

■ WITHOUT FUSE CARRIER IP66/IP67



IP: IP66/IP67
Flange: 106X240MM

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	2	>300-500	>50		561.16832 ^{1) 2) 4)}	1/12	561.32832 ^{1) 2) 4)}	1/12
	3	DC	>50-250		561.16834 ^{1) 2) 5)}	1/12	561.32834 ^{1) 2) 5)}	1/12
	4	50 60	100-130		561.1670 ^{1) 2)}	1/12	561.3270 ^{1) 2)}	1/12
	6	50 60	200-250		561.1683 ^{1) 2)}	1/12	561.3283 ^{1) 2)}	1/12
	7	50 60	480-500		561.16836 ^{1) 2)}	1/12	561.32836 ^{1) 2)}	1/12
	8	DC	>250		561.16838 ^{1) 2) 5)}	1/12	561.32838 ^{1) 2) 5)}	1/12
	9	50 60	380-415		561.1678 ^{1) 2)}	1/12	561.3278 ^{1) 2)}	1/12
	12	50 60	TST>50		561.16833 ^{1) 2)}	1/12	561.32833 ^{1) 2)}	1/12
3P+E	2	>300-500	>50		561.16862 ^{1) 2) 4)}	1/12	561.32862 ^{1) 2) 4)}	1/12
	3	50 60	380 50Hz / 440 60Hz		561.16864 ^{1) 2)}	1/12	561.32864 ^{1) 2)}	1/12
	4	50 60	100-130		561.1672 ^{1) 2)}	1/12	561.3272 ^{1) 2)}	1/12
	5	50 60	600-690		561.16867 ^{1) 2) 6)}	1/12	561.32867 ^{1) 2) 6)}	1/12
	6	50 60	380-415		561.1686 ^{1) 2)}	1/12	561.3286 ^{1) 2)}	1/12
	7	50 60	480-500		561.16866 ^{1) 2)}	1/12	561.32866 ^{1) 2)}	1/12
	9	50 60	200-250		561.1674 ^{1) 2)}	1/12	561.3274 ^{1) 2)}	1/12
	10	100-300	>50		561.16861 ^{1) 2) 4)}	1/12	561.32861 ^{1) 2) 4)}	1/12
3P+N+E	11	60	440-460		561.16865 ^{1) 2)}	1/12	561.32865 ^{1) 2)}	1/12
	2	>300-500	>50		561.16872 ^{1) 2) 4)}	1/12	561.32872 ^{1) 2) 4)}	1/12
	3	50 60	380 50Hz / 440 60Hz		561.16874 ^{1) 2)}	1/12	561.32874 ^{1) 2)}	1/12
	4	50 60	100-130		561.1679 ^{1) 2)}	1/12	561.3279 ^{1) 2)}	1/12
	5	50 60	600-690		561.16877 ^{1) 2) 6)}	1/12	561.32877 ^{1) 2) 6)}	1/12
	6	50 60	346-415		561.1687 ^{1) 2)}	1/12	561.3287 ^{1) 2)}	1/12
	7	50 60	480-500		561.16876 ^{1) 2)}	1/12	561.32876 ^{1) 2)}	1/12
	9	50 60	208-250		561.1675 ^{1) 2)}	1/12	561.3275 ^{1) 2)}	1/12
11	60	440-460		561.16875 ^{1) 2)}	1/12	561.32875 ^{1) 2)}	1/12	



IP: IP66/IP67
Flange: 136X390MM

Poles	h	Hz	Volt	Colour	63A	
2P+E	3	DC	>50-250		561.63834 ^{3) 5) 7)}	1/4
	4	50 60	100-130		561.6370 ^{3) 7)}	1/4
	6	50 60	200-250		561.6383 ^{3) 7)}	1/4
	7	50 60	480-500		561.63836 ^{3) 7)}	1/4
	9	50 60	380-415		561.6378 ^{3) 7)}	1/4
3P+E	12	50 60	TST>50		561.63833 ^{3) 7)}	1/4
	4	50 60	100-130		561.6372 ^{3) 7)}	1/4
	5	50 60	600-690		561.63867 ^{3) 6) 7)}	1/4
	6	50 60	380-415		561.6386 ^{3) 7)}	1/4
	7	50 60	480-500		561.63866 ^{3) 7)}	1/4
3P+N+E	9	50 60	200-250		561.6374 ^{3) 7)}	1/4
	11	60	440-460		561.63865 ^{3) 7)}	1/4
	2	>300-500	>50		561.63872 ^{3) 4) 7)}	1/4
	4	50 60	100-130		561.6379 ^{3) 7)}	1/4
	5	50 60	600-690		561.63877 ^{3) 6) 7)}	1/4
3P+N+E	6	50 60	346-415		561.6387 ^{3) 7)}	1/4
	7	50 60	480-500		561.63876 ^{3) 7)}	1/4
	9	50 60	208-250		561.6375 ^{3) 7)}	1/4
	11	60	440-460		561.63875 ^{3) 7)}	1/4

Cable gland included.

¹⁾ Open threaded cable entry.

²⁾ Threaded cap/cable sleeve included.

³⁾ Blank side with drilling point marks.

⁴⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

⁵⁾ When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

⁶⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

⁷⁾ [LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark).



ADVANCEZ SYSTEM
ADVANCEZ SERIES

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE2 System

■ WITH FUSE CARRIER IP44



IP: IP44
Flange: 106X240MM

Poles	h	Hz	Volt	Colour	16A	1/12	32A	1/12
2P+E	2	>300-500	>50	Green	562.16832 ¹⁾	1/12	562.32832 ¹⁾	1/12
	3	DC	>50-250	Grey	562.16834 ²⁾	1/12	562.32834 ²⁾	1/12
	4	50 60	100-130	Yellow	562.1670	1/12	562.3270	1/12
	6	50 60	200-250	Blue	562.1683	1/12	562.3283	1/12
	7	50 60	480-500	Black	562.16836	1/12	562.32836	1/12
	8	DC	>250	Grey	562.16838 ²⁾	1/12	562.32838 ²⁾	1/12
	9	50 60	380-415	Red	562.1678	1/12	562.3278	1/12
	12	50 60	TST>50	Grey	562.16833	1/12	562.32833	1/12
3P+E	2	>300-500	>50	Green	562.16862 ¹⁾	1/12	562.32862 ¹⁾	1/12
	3	50 60	380 50Hz / 440 60Hz	Red	562.16864	1/12	562.32864	1/12
	4	50 60	100-130	Yellow	562.1672	1/12	562.3272	1/12
	5	50 60	600-690	Black	562.16867 ³⁾	1/12	562.32867 ³⁾	1/12
	6	50 60	380-415	Red	562.1686	1/12	562.3286	1/12
	7	50 60	480-500	Black	562.16866	1/12	562.32866	1/12
	9	50 60	200-250	Blue	562.1674	1/12	562.3274	1/12
	10	100-300	>50	Green	562.16861 ¹⁾	1/12	562.32861 ¹⁾	1/12
3P+N+E	11	60	440-460	Red	562.16865	1/12	562.32865	1/12
	2	>300-500	>50	Green	562.16872 ¹⁾	1/12	562.32872 ¹⁾	1/12
	3	50 60	380 50Hz / 440 60Hz	Red	562.16874	1/12	562.32874	1/12
	4	50 60	100-130	Yellow	562.1679	1/12	562.3279	1/12
	5	50 60	600-690	Black	562.16877 ³⁾	1/12	562.32877 ³⁾	1/12
	6	50 60	346-415	Red	562.1687	1/12	562.3287	1/12
	7	50 60	480-500	Black	562.16876	1/12	562.32876	1/12
	9	50 60	208-250	Blue	562.1675	1/12	562.3275	1/12
11	60	440-460	Red	562.16875	1/12	562.32875	1/12	

Open threaded cable entry.
Threaded cap/cable sleeve included.
Cable gland included.
Fuses not supplied.

¹⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾ When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

■ WITH FUSE CARRIER IP66/IP67



IP: IP66/IP67
Flange: 106X240MM

Poles	h	Hz	Volt	Colour	16A	32A
2P+E	2	>300-500	>50	Green	563.16832 ^{1) 2) 4)}	563.32832 ^{1) 2) 4)}
	3	DC	>50-250	Grey	563.16834 ^{1) 2) 5)}	563.32834 ^{1) 2) 5)}
	4	50 60	100-130	Yellow	563.1670 ^{1) 2)}	563.3270 ^{1) 2)}
	6	50 60	200-250	Blue	563.1683 ^{1) 2)}	563.3283 ^{1) 2)}
	7	50 60	480-500	Black	563.16836 ^{1) 2)}	563.32836 ^{1) 2)}
	8	DC	>250	Grey	563.16838 ^{1) 2) 5)}	563.32838 ^{1) 2) 5)}
	9	50 60	380-415	Red	563.1678 ^{1) 2)}	563.3278 ^{1) 2)}
	12	50 60	TST>50	Grey	563.16833 ^{1) 2)}	563.32833 ^{1) 2)}
3P+E	2	>300-500	>50	Green	563.16862 ^{1) 2) 4)}	563.32862 ^{1) 2) 4)}
	3	50 60	380 50Hz / 440 60Hz	Red	563.16864 ^{1) 2)}	563.32864 ^{1) 2)}
	4	50 60	100-130	Yellow	563.1672 ^{1) 2)}	563.3272 ^{1) 2)}
	5	50 60	600-690	Black	563.16867 ^{1) 2) 6)}	563.32867 ^{1) 2) 6)}
	6	50 60	380-415	Red	563.1686 ^{1) 2)}	563.3286 ^{1) 2)}
	7	50 60	480-500	Black	563.16866 ^{1) 2)}	563.32866 ^{1) 2)}
	9	50 60	200-250	Blue	563.1674 ^{1) 2)}	563.3274 ^{1) 2)}
	10	100-300	>50	Green	563.16861 ^{1) 2) 4)}	563.32861 ^{1) 2) 4)}
3P+N+E	11	60	440-460	Red	563.16865 ^{1) 2)}	563.32865 ^{1) 2)}
	2	>300-500	>50	Green	563.16872 ^{1) 2) 4)}	563.32872 ^{1) 2) 4)}
	3	50 60	380 50Hz / 440 60Hz	Red	563.16874 ^{1) 2)}	563.32874 ^{1) 2)}
	4	50 60	100-130	Yellow	563.1679 ^{1) 2)}	563.3279 ^{1) 2)}
	5	50 60	600-690	Black	563.16877 ^{1) 2) 6)}	563.32877 ^{1) 2) 6)}
	6	50 60	346-415	Red	563.1687 ^{1) 2)}	563.3287 ^{1) 2)}
	7	50 60	480-500	Black	563.16876 ^{1) 2)}	563.32876 ^{1) 2)}
	9	50 60	208-250	Blue	563.1675 ^{1) 2)}	563.3275 ^{1) 2)}
11	60	440-460	Red	563.16875 ^{1) 2)}	563.32875 ^{1) 2)}	



IP: IP66/IP67
Flange: 136X390MM

Poles	h	Hz	Volt	Colour	63A
2P+E	3	DC	>50-250	Grey	563.63834 ^{3) 5) 7)}
	4	50 60	100-130	Yellow	563.6370 ^{3) 7)}
	6	50 60	200-250	Blue	563.6383 ^{3) 7)}
	9	50 60	380-415	Red	563.6378 ^{3) 7) 8)}
	12	50 60	TST>50	Grey	563.63833 ^{3) 7)}
3P+E	4	50 60	100-130	Yellow	563.6372 ^{3) 7)}
	6	50 60	380-415	Red	563.6386 ^{3) 7) 8)}
	9	50 60	200-250	Blue	563.6374 ^{3) 7)}
3P+N+E	4	50 60	100-130	Yellow	563.6379 ^{3) 7)}
	6	50 60	346-415	Red	563.6387 ^{3) 7) 8)}
	9	50 60	208-250	Blue	563.6375 ^{3) 7)}

Cable gland included.
Fuses not supplied.

- ¹⁾ Open threaded cable entry.
- ²⁾ Threaded cap/cable sleeve included.
- ³⁾ Blank side with drilling point marks.
- ⁴⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.
- ⁵⁾ When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.
- ⁶⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.
- ⁷⁾ [LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark).
- ⁸⁾ 400V only.

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE2 System

■ WITH DIN RAIL (6 MODULES) IP44



IP: IP44
Flange: 136X390MM

Poles	h	Hz	Volt	Colour	16A		32A	
2P+E	2	>300-500	>50		567.16832 ¹⁾	1/4	567.32832 ¹⁾	1/4
	3	DC	>50-250		567.16834 ²⁾	1/4	567.32834 ²⁾	1/4
	4	50 60	100-130		567.1670	1/4	567.3270	1/4
	6	50 60	200-250		567.1683	1/4	567.3283	1/4
	7	50 60	480-500		567.16836	1/4	567.32836	1/4
	8	DC	>250		567.16838 ²⁾	1/4	567.32838 ²⁾	1/4
	9	50 60	380-415		567.1678	1/4	567.3278	1/4
	12	50 60	TST>50		567.16833	1/4	567.32833	1/4
3P+E	2	>300-500	>50		567.16862 ¹⁾	1/4	567.32862 ¹⁾	1/4
	3	50 60	380 50Hz / 440 60Hz		567.16864	1/4	567.32864	1/4
	4	50 60	100-130		567.1672	1/4	567.3272	1/4
	5	50 60	600-690		567.16867 ³⁾	1/4	567.32867 ³⁾	1/4
	6	50 60	380-415		567.1686	1/4	567.3286	1/4
	7	50 60	480-500		567.16866	1/4	567.32866	1/4
	9	50 60	200-250		567.1674	1/4	567.3274	1/4
	10	100-300	>50		567.16861 ¹⁾	1/4	567.32861 ¹⁾	1/4
3P+N+E	11	60	440-460		567.16865	1/4	567.32865	1/4
	2	>300-500	>50		567.16872 ¹⁾	1/4	567.32872 ¹⁾	1/4
	3	50 60	380 50Hz / 440 60Hz		567.16874	1/4	567.32874	1/4
	4	50 60	100-130		567.1679	1/4	567.3279	1/4
	5	50 60	600-690		567.16877 ³⁾	1/4	567.32877 ³⁾	1/4
	6	50 60	346-415		567.1687	1/4	567.3287	1/4
	7	50 60	480-500		567.16876	1/4	567.32876	1/4
	9	50 60	208-250		567.1675	1/4	567.3275	1/4
11	60	440-460		567.16875	1/4	567.32875	1/4	

Blank side with drilling point marks.

Cable gland included.

[LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark).

¹⁾The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

■ WITH DIN RAIL (6 MODULES) IP66/IP67



IP: IP66/IP67
Flange: 136X390MM

Poles	h	Hz	Volt	Colour	16A	32A
2P+E	2	>300-500	>50	Green	568.16832 ¹⁾	568.32832 ¹⁾
	3	DC	>50-250	Grey	568.16834 ²⁾	568.32834 ²⁾
	4	50 60	100-130	Yellow	568.1670	568.3270
	6	50 60	200-250	Blue	568.1683	568.3283
	7	50 60	480-500	Black	568.16836	568.32836
	8	DC	>250	Grey	568.16838 ²⁾	568.32838 ²⁾
	9	50 60	380-415	Red	568.1678	568.3278
	12	50 60	TST>50	Grey	568.16833	568.32833
3P+E	2	>300-500	>50	Green	568.16862 ¹⁾	568.32862 ¹⁾
	3	50 60	380 50Hz / 440 60Hz	Red	568.16864	568.32864
	4	50 60	100-130	Yellow	568.1672	568.3272
	5	50 60	600-690	Black	568.16867 ³⁾	568.32867 ³⁾
	6	50 60	380-415	Red	568.1686	568.3286
	7	50 60	480-500	Black	568.16866	568.32866
	9	50 60	200-250	Blue	568.1674	568.3274
	10	100-300	>50	Green	568.16861 ¹⁾	568.32861 ¹⁾
3P+N+E	11	60	440-460	Red	568.16865	568.32865
	2	>300-500	>50	Green	568.16872 ¹⁾	568.32872 ¹⁾
	3	50 60	380 50Hz / 440 60Hz	Red	568.16874	568.32874
	4	50 60	100-130	Yellow	568.1679	568.3279
	5	50 60	600-690	Black	568.16877 ³⁾	568.32877 ³⁾
	6	50 60	346-415	Red	568.1687	568.3287
	7	50 60	480-500	Black	568.16876	568.32876
	9	50 60	208-250	Blue	568.1675	568.3275
11	60	440-460	Red	568.16875	568.32875	



IP: IP66/IP67
Flange: 136X390 MM

Poles	h	Hz	Volt	Colour	63A
2P+E	3	DC	>50-250	Grey	568.63834 ²⁾
	4	50 60	100-130	Yellow	568.6370
	6	50 60	200-250	Blue	568.6383
	9	50 60	380-415	Red	568.6378 ⁴⁾
3P+E	12	50 60	TST>50	Grey	568.63833
	4	50 60	100-130	Yellow	568.6372
	5	50 60	600-690	Black	568.63867 ³⁾
	6	50 60	380-415	Red	568.6386 ⁴⁾
	7	50 60	480-500	Black	568.63866
	9	50 60	200-250	Blue	568.6374
3P+N+E	11	60	440-460	Red	568.63865
	4	50 60	100-130	Yellow	568.6379
	5	50 60	600-690	Black	568.63877 ³⁾
	6	50 60	346-415	Red	568.6387 ⁴⁾
	7	50 60	480-500	Black	568.63876
9	50 60	208-250	Blue	568.6375	
11	60	440-460	Red	568.63875	

Blank side with drilling point marks.
Cable gland included.
[LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark).

¹⁾The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³⁾Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

⁴⁾400V only.



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE2 System

Technical information

Main characteristics 125A



- 01** Clear indication of open or closed position
- 02** Open threaded cable entry with cap and cable gland supplied
- 03** External fixing points
- 04** Wide internal space to facilitate cabling operations
- 05** AC23 switch pre-wired on the DIN rail side
- 06** Padlockable in the ON and OFF position
- 07** Recessed XXL handle to prevent breakage due to accidental impacts
- 08** Versions with DIN rail (8 DIN) for the assembly of protection devices
- 09** Blank side with drilling point marks
- 10** Captive stainless steel closing screws

■ 125A VERSION >> BOX IP66/IP67/IP69



Poles	h	Hz	Volt	Colour	125A	
2P+E	6	50 60	200-250		548.12583	1
3P+E	6	50 60	380-415		548.12586	1
3P+N+E	6	50 60	346-415		548.12587	1

IP: IP66/IP67/IP69

■ 125A VERSION >> DIN IP66/IP67/IP69



Poles	h	Hz	Volt	Colour	125A	
2P+E	6	50 60	200-250		548.12583-D	1
3P+E	6	50 60	380-415		548.12586-D	1
3P+N+E	6	50 60	346-415		548.12587-D	1

Consumer unit 8 DIN

IP: IP66/IP67/IP69



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE2 System

■ RATED OPERATING VOLTAGE <50V >> VERSION WITH SAFETY TRANSFORMER



IP: IP44
Flange: 136X390MM

Poles	Volt	Colour	16A	
2P	24		565.2516 ^{3) 4) 5)}	1/4

Cable gland included.
When plug is inserted a micro-switch is activated and closes the circuit.
SELV transformer 220/24V- 150VA (continuous duty).

- ³⁾ Blank side with drilling point marks.
- ⁴⁾ Provided protections: primary circuit (2A), secondary circuit (6A), fuses included.
- ⁵⁾ [LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark).



IP: IP66/IP67
Flange: 136X390MM

Poles	Volt	Colour	16A	
2P	24		565.2516/S ^{3) 4) 5)}	1/4

Cable gland included.
When plug is inserted a micro-switch is activated and closes the circuit.
SELV transformer 220/24V- 150VA (continuous duty).

- ³⁾ Blank side with drilling point marks.
- ⁴⁾ Provided protections: primary circuit (2A), secondary circuit (6A), fuses included.
- ⁵⁾ [LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark).

■ RATED OPERATING VOLTAGE <50V >> VERSION WITH DIN RAIL (6 MODULES)



Poles	h	Volt	Colour	16A		32A	
2P		20-25		565.2420	1/10	565.2432	1/10
	12	40-50		565.2421	1/10	565.2433	1/10

Open threaded cable entry.
Threaded cap/cable sleeve included.
Cable gland included.
When plug is inserted a micro-switch is activated and closes the circuit.

IP: IP44
Flange: 106X240MM



Poles	h	Volt	Colour	16A		32A	
2P		20-25		565.2420/S	1/10	565.2432/S	1/10
	12	40-50		565.2421/S	1/10	565.2433/S	1/10

Open threaded cable entry.
Threaded cap/cable sleeve included.
Cable gland included.
When plug is inserted a micro-switch is activated and closes the circuit.

IP: IP66/IP67
Flange: 106X240MM



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS

ADVANCE2 System



Components

The availability of bases, enclosures and dedicated consumer units allows the realization of modular and flexible combinations.

technical sheet p. 756

■ COMPACT MODULE 106



Description	Dimensions	IP	Flange	Notes	Code	
CONSUMER UNIT	106x150x110mm	IP66	106X150MM		576.4302	6

Blank side with drilling point marks.
Power dissipation calculated in conformity with CEI 23-49 italian standards.



Description	Dimensions	IP	Flange	Notes	Code	
CONSUMER UNIT	212x150x110mm	IP66	206X150MM		576.4305	6

Blank side with drilling point marks.
Power dissipation calculated in conformity with CEI 23-49 italian standards.



Description	Dimensions	IP	Flange	Notes	Code	
JUNCTION BOX 106	106x150x105mm	IP66	106X150MM	16/32A	576.4303	12

Blank side with drilling point marks.



Description	Dimensions	IP	Flange	Notes	Code	
JUNCTION BOX 106	106x150x105mm	IP66	106X150MM		576.4301	12

Blank side with drilling point marks.



Description	Dimensions	IP	Flange	Notes	Code	
JUNCTION BOX 106	212x150x105mm	IP66	206X150MM		576.4304	6

Blank side with drilling point marks.



Description	Dimensions	IP	Flange	Notes	Code	
MODULAR BASE 106	106x434x18mm			16A-32A	576.4300	12

■ LARGE MODULE 136



Description	Dimensions	IP	Flange	Notes	Code	
CONSUMER UNIT	136x150x110mm	IP66	136X150MM		576.4322	6

Blank side with drilling point marks.
Power dissipation calculated in conformity with CEI 23-49 italian standards.



Description	Dimensions	IP	Flange	Notes	Code	
CONSUMER UNIT	272x150x110mm	IP66	266X150MM		576.4325	6

Blank side with drilling point marks.
Power dissipation calculated in conformity with CEI 23-49 italian standards.

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE2 System



Description	Dimensions	IP	Flange	Notes	Code	
JUNCTION BOX 136	136x150x105mm	IP66	136X150MM	16A-32A	576.4323	12

Blank side with drilling point marks.



Description	Dimensions	IP	Flange	Notes	Code	
JUNCTION BOX 136	136x150x105mm	IP66	136X150MM		576.4321	12

Blank side with drilling point marks.



Description	Dimensions	IP	Flange	Notes	Code	
JUNCTION BOX 136	272x150x105mm	IP66	266X150MM		576.4324	6

Blank side with drilling point marks.



Description	Dimensions	IP	Flange	Notes	Code	
MODULAR BASE 136	136x584x18mm			16A-32A-63A	576.4340	6



Description	Dimensions	IP	Flange	Notes	Code	
ENCLOSURE FOR SWITCH	136x150x105mm	IP66		ADVANCE2	576.4390	6

Blank side with drilling point marks.

For fitting with Y1 switch size panel mounting version (R) and relevant front operators handleless (IP65).






■ KIT ACCESSORIES



Description	Code	
TRIANGULAR KEY	654.0073	1/10

■ CONTACT BLOCKS



Description	Colour	Switch size	Code	
NC CONTACT		F1 Y1 D1	590.PL004001 ¹⁾	10/60
		Y2	590.PL004003 ¹⁾	10
NO CONTACT		F1 Y1 D1	590.PL004002 ²⁾	10/60
		Y2	590.PL004004 ²⁾	10

Snap catch.

¹⁾ NC=Normally closed.

²⁾ NO=Normally open.



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System



ADVANCE-GRP SYSTEM

ADVANCE-GRP Series

p. 234

Industrial switched interlocked socket outlets in GRP thermosetting material



Applications: [Shipyards](#) [Commercial Port](#) [Container Terminal](#)
[Heavy Industry](#) [Food Industry](#) [Quarry](#) [Mine](#)

ADVANCE-GRP[UL] Series

p. 246

Industrial switched interlocked socket outlets in GRP thermosetting material UL/CSA listed



Applications: [Shipyards](#) [Commercial Port](#) [Container Terminal](#)
[Shipyards](#) [Heavy Industry](#) [Food Industry](#) [Quarry](#) [Mine](#)

COMPONENTS

p. 252

Modular enclosures in GRP thermosetting material and installation accessories



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System



ADVANCE-GRP System - Components

SURFACE MOUNTING BOXES SURFACE MOUNTING MODULAR BASES

Module	Single	Single with junction box	Double with junction box	Single with consumer unit	Double with consumer unit	Single with consumer unit and window	Double with consumer unit and window
Compact 16A-32A 20A-30A	579.5100	579.5110	579.5120	579.5111	579.5121	579.5112.D	579.5122.D
Large 63A-60A	579.5200	579.5210		579.5211		579.5212.D	



Example on surface mounting box



GALVANIZED STEEL SUPPORTS FOR SURFACE MOUNTING MODULAR BASES



Compatibility with surface mounting modular bases

1 x single base compact + 1 x double base compact	579.0030
2 x double base compact	579.0040
1 x double base compact + 1 x single base large	579.0021
1 x single base compact + 1 x double base compact + 1 x single base large	579.0031
1 x double base compact + 2 single base large	579.0022

Compatibility

MEGA Series



Combination examples on surface mounting modular bases



Combination examples on surface mounting modular bases and galvanized steel supports



Coupling kit
M32



579.0030
(support)

579.0040
(support)

579.0021
(support)

579.0031
(support)

579.0022
(support)



Special characteristics

ADVANCE-GRP CHARACTERISTICS

A unique feature which enhances the exceptional mechanical strength of ADVANCE-GRP products is the SMC (*Sheet Moulding Compound*) production process used for the casings. SMC is a technology which uses exclusively non-woven sheets, pre-impregnated with polyester resin.

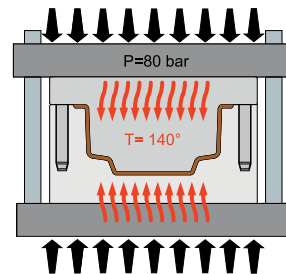
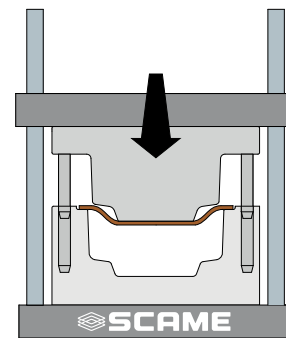
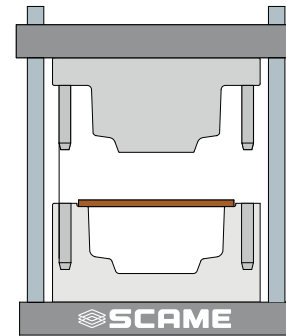
This method consists in preparing the sheet material inside a mould which, equipped with a negative mould, presses the composite so as to allow compaction.

SMC is an advanced technology which enhances the quality of the raw material without reducing the high-strength characteristics during the transformation; it's a high-performing technology in terms of the mechanical performance of the resultant product (glass fibre length, homogeneity of the material, integrity of the fibres).

On the contrary, the BMC (*Bulk Moulding Compound*) technology is a technology for moulding composite materials which uses a raw material available in "blocks" (short, charged fibres) which are subjected to high thermomechanical stress during the transformation process, consequently diminishing the mechanical properties of the details, thereby reducing the impact strength and flexural strength.

The glass-fibre reinforced polyester used in ADVANCE-GRP guarantees excellent mechanical strength and a long life-time: this material is highly resistant to contamination, completely corrosion resistant and suited for applications requiring the use of components with low smoke emission and no halogens, LSOH (*Low Smoke Zero Halogen*) components. The outstanding properties of the material are also guaranteed over time, thanks to the high RTI value (*Relative Temperature Index*), measured to be 20,000h.

Numerous verifications and tests have been carried out, even UV resistance tests, in order to guarantee the long duration of the material's initial performance. The thickness of the walls is sufficient to offer an excellent alternative to aluminium, stainless steel or cast iron.



Application examples



Building construction site



Heavy industry



Shipyards - Container terminal



OUTSTANDING HEAT AND FIRE RESISTANCE

The glass-fibre reinforced polyester used in ADVANCE-GRP guarantees excellent heat and fire resistance: it does not propagate flames, emit halogens or smoke.

This material has outstanding flame retardancy: Glow Wire 960°C according to EN 60695-2-1; V0 according to UL94. It's suited for applications requiring the use of components with low smoke emission and no halogens, LSOH (*Low Smoke Zero Halogen*).



OUTSTANDING IMPACT RESISTANCE

The glass-fibre reinforced polyester used in ADVANCE-GRP and the high thickness of the casing walls guarantee an excellent mechanical resistance to impacts.

The SMC technology used to produce the casings makes ADVANCE-GRP an indestructible product.

The impact resistance of the casings is higher than 20J (IK10) according to EN50102, even under limit temperature conditions (-40°C +60°C).



RESISTANCE TO CHEMICAL AGENTS

The ADVANCE-GRP interlocked sockets and casings, thanks to the glass-fibre reinforced polyester with which they are produced, have excellent resistance to aggressive chemical substances, saline solutions, diluted acids, hydrocarbons, mineral oils, alcoholic substances. They are ideal for use in highly corrosive atmospheres.



RESISTANCE TO ATMOSPHERIC AGENTS

The structure and materials used also make ADVANCE-GRP a product suited for the most extreme environmental conditions. The triple degree of protection IP66, IP67 and IP69 (IP66 for 125A), guarantees an excellent seal against the entry of solid objects or liquids into the casings.

Outstanding resistance to UV rays, exceptional reliability under environmental stress and use at both low and high ambient temperatures (-40°C +60°C).

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System



ADVANCE-GRP Series

ADVANCE-GRP is a complete range of industrial interlocked socket outlets from 16 up to 125A.

The industrial electrical sockets of this series, thanks to the body made of GRP (Glass fiber Reinforced Polyester) thermosetting material, guarantee maximum resistance to impacts (IK10 at temperatures between -40 and + 60 °C), to heat and fire (GW 960 °C), proving also to be insensitive to corrosion and atmospheric and chemical agents.

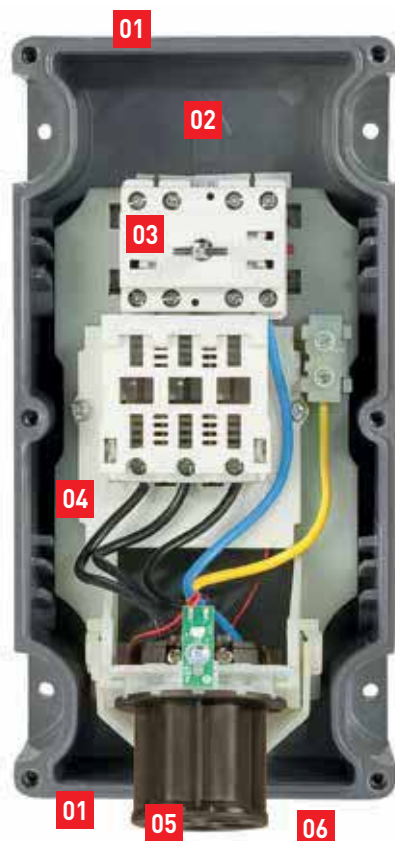
The possibility of choosing between versions with or without protection devices and a series of modular bases and enclosures, make ADVANCE-GRP the widest and most articulated series of interlocked socket outlet made of thermosetting material on the market.

technical sheet p. 758

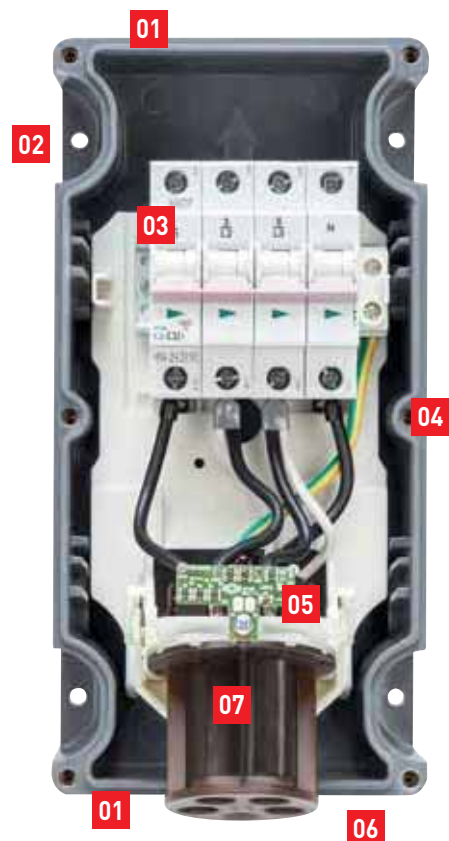
Technical information

Main characteristics 16A-32A-63A

with fuses



with MCB



- 01** Blank sides with drilling point marks
- 02** Wide space for easy and comfortable wiring
- 03** Switch-disconnector with mechanical lock that can be accessorized with auxiliary contacts
- 04** Easily extractable support
- 05** Module in high-temperature resistant engineering polymer
- 06** Bottom side entry possibility (also loop-in - loop-out)

- 01** Blank sides with drilling point marks
- 02** External fixing points
- 03** Under plate cables runway
- 04** Threaded metal inserts
- 05** Indicator light
- 06** Bottom side entry possibility (also loop-in - loop-out)
- 07** Possibility of microswitch with plug-inserted control function



I-DEVICE

08

An electronic device controls (*Intelligence Device*) the status of the interlocked socket, monitoring the electrical functionality:

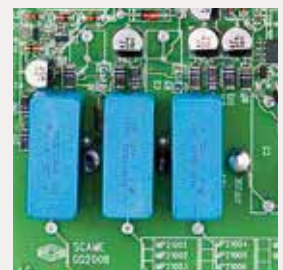
- operation of the signalling and control card is guaranteed even when the load is not connected;

- **INDICATOR LIGHT ON**
 - indicates that the fuses are not open and all the phases are present;
 - indicates that the socket outlet is powered correctly;

- ⚡ **INDICATOR LIGHT FLASHING**
 - indicates the interruption of one or more fuses;
 - indicates the absence of a phase*;

- **INDICATOR LIGHT OFF**
 - indicates that the socket outlet is not powered.

* for single-phase products in the event of phase/neutral loss led signaling appears off.



01 Unlosable single-piece waterproof gasket

02 Dual mechanical lock

03 High-strength material with superior UV and chemical resistance

04 Ergonomic knob padlockable in position 0 and I, manoeuvrable even with gloves

05 Fuse inspection door, temper-proof, padlockable, with assisted opening

06 Cover entirely separated from the box to ease installation

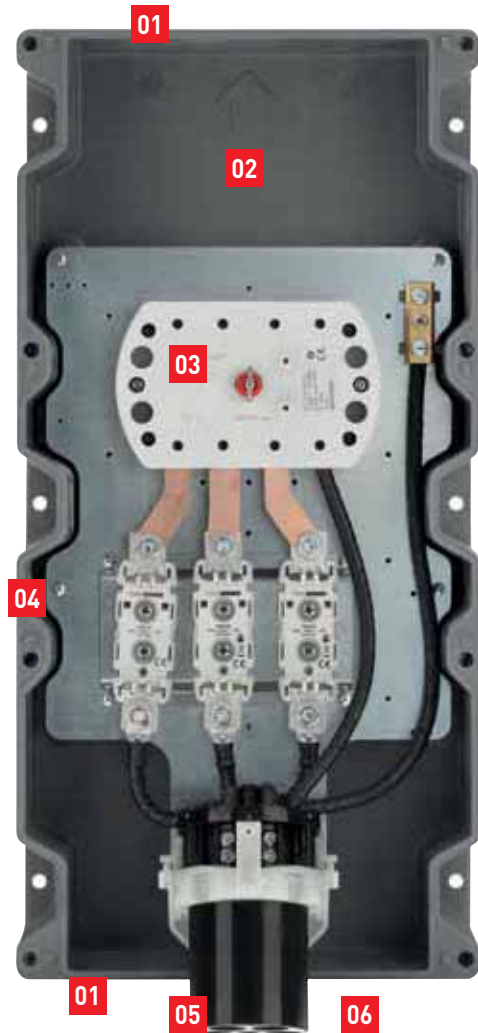
07 Captive stainless steel closing screws

08 I-DEVICE

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System

Main characteristics 125A

with fuses



with MCCB+RCD



- 01 Blank sides with drilling point marks
- 02 Wide space for easy and comfortable wiring
- 03 Switch-disconnector with mechanical lock that can be accessorized with auxiliary contacts
- 04 Punched marks to ease closure of the cover
- 05 Module in high-temperature resistant engineering polymer
- 06 Bottom side entry possibility (also loop-in - loop-out)

- 01 Blank sides with drilling point marks
- 02 External fixing points
- 03 Under plate cables runway
- 04 Threaded metal insert
- 05 Easily extractable bottom plate
- 06 Bottom side entry possibility (also loop-in - loop-out)
- 07 Possibility of microswitch with plug-inserted control function



Thermal magnetic protection 125A:	Molded case circuit breaker ABB T-MAX XT 1B 160 (18kA) with thermal magnetic trip unit TMD (adjustable thermal threshold 0,7...1 x In fixed magnetic threshold 10 x In)
Thermal-magnetic and residual current protection 125A:	Molded case circuit breaker ABB T-MAX XT 1B 160 (18kA) with thermal magnetic trip unit TMD (adjustable thermal threshold 0,7...1 x In fixed magnetic threshold 10 x In) + residual current release trip units RC221/1 (adjustable residual current trip 0,03 - 0,1 - 3A and time limit for non-trip instantaneous)
Version with contactor 125A:	Contactor CL09 GE POWER CONTROL

- 01** Unlosable single-piece waterproof gasket
- 02** Dual mechanical interlock to increase safety
- 03** Rating on metal plate
- 04** Captive stainless steel closing screws
- 05** Ergonomic knob padlockable in position 0 and I, manoeuvrable even with gloves
- 06** High performance material with outstanding mechanical, UV rays and chemical resistance
- 07** Cover entirely separated from the box to ease installation

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System

■ WITHOUT BASE IP66/IP67/IP69 >> WITHOUT FUSE CARRIER



IP: IP66/IP67/IP69
Flange: 130X260MM

Poles	h	Hz	Volt	Colour	16A		32A		
2P+E	2	>300-500	>50		402.16832 ¹⁾	1/6	402.32832 ¹⁾	1/6	
	4	50 60	100-130		402.1670	1/6	402.3270	1/6	
	6	50 60	200-250		402.1683	1/6	402.3283	1/6	
	7	50 60	480-500		402.16836	1/6	402.32836	1/6	
	9	50 60	380-415		402.1678	1/6	402.3278	1/6	
	12	50 60	TST>50		402.16833	1/6	402.32833	1/6	
3P+E	2	>300-500	>50		402.16862 ¹⁾	1/6	402.32862 ¹⁾	1/6	
	3	50 60	380 50Hz / 440 60Hz		402.16864	1/6	402.32864	1/6	
	4	50 60	100-130		402.1672	1/6	402.3272	1/6	
	5	50 60	600-690		402.16867 ²⁾	1/6	402.32867 ²⁾	1/6	
	6	50 60	380-415		402.1686	1/6	402.3286	1/6	
	7	50 60	480-500		402.16866	1/6	402.32866	1/6	
	9	50 60	200-250		402.1674	1/6	402.3274	1/6	
	10	100-300	>50		402.16861 ¹⁾	1/6	402.32861 ¹⁾	1/6	
	11	60	440-460		402.16865	1/6	402.32865	1/6	
	3P+N+E	2	>300-500	>50		402.16872 ¹⁾	1/6	402.32872 ¹⁾	1/6
		3	50 60	380 50Hz / 440 60Hz		402.16874	1/6	402.32874	1/6
4		50 60	100-130		402.1679	1/6	402.3279	1/6	
5		50 60	600-690		402.16877 ²⁾	1/6	402.32877 ²⁾	1/6	
6		50 60	346-415		402.1687	1/6	402.3287	1/6	
7		50 60	480-500		402.16876	1/6	402.32876	1/6	
9		50 60	208-250		402.1675	1/6	402.3275	1/6	
11		60	440-460		402.16875	1/6	402.32875	1/6	



IP: IP66/IP67/IP69
Flange: 170X380MM

Poles	h	Hz	Volt	Colour	63A		
2P+E	2	>300-500	>50		402.63832 ¹⁾	1	
	4	50 60	100-130		402.6370	1	
	6	50 60	200-250		402.6383	1	
	7	50 60	480-500		402.63836	1	
	9	50 60	380-415		402.6378	1	
	12	50 60	TST>50		402.63833	1	
3P+E	2	>300-500	>50		402.63862 ¹⁾	1	
	3	50 60	380 50Hz / 440 60Hz		402.63864	1	
	4	50 60	100-130		402.6372	1	
	5	50 60	600-690		402.63867 ²⁾	1	
	6	50 60	380-415		402.6386	1	
	7	50 60	480-500		402.63866	1	
	9	50 60	200-250		402.6374	1	
	10	100-300	>50		402.63861 ¹⁾	1	
	11	60	440-460		402.63865	1	
	3P+N+E	2	>300-500	>50		402.63872 ¹⁾	1
		3	50 60	380 50Hz / 440 60Hz		402.63874	1
4		50 60	100-130		402.6379	1	
5		50 60	600-690		402.63877 ²⁾	1	
6		50 60	346-415		402.6387	1	
7		50 60	480-500		402.63876	1	
9		50 60	208-250		402.6375	1	
11		60	440-460		402.63875	1	

Supplied with stainless steel fixing screws.
Empty base: ADVANCE-GRP System (fam. 579).

¹⁾The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

■ WITHOUT BASE IP66/IP67/IP69 >> WITHOUT FUSE CARRIER - WITH "I-DEVICE"



IP: IP66/IP67/IP69
Flange: 130X260MM

Poles	h	Hz	Volt	Colour	16A		32A		
2P+E	2	>300-500	>50		403.16832 ¹⁾	1/6	403.32832 ¹⁾	1/6	
	4	50 60	100-130		403.1670	1/6	403.3270	1/6	
	6	50 60	200-250		403.1683	1/6	403.3283	1/6	
	7	50 60	480-500		403.16836	1/6	403.32836	1/6	
	9	50 60	380-415		403.1678	1/6	403.3278	1/6	
	12	50 60	TST>50		403.16833	1/6	403.32833	1/6	
3P+E	2	>300-500	>50		403.16862 ¹⁾	1/6	403.32862 ¹⁾	1/6	
	3	50 60	380 50Hz / 440 60Hz		403.16864	1/6	403.32864	1/6	
	4	50 60	100-130		403.1672	1/6	403.3272	1/6	
	5	50 60	600-690		403.16867 ²⁾	1/6	403.32867 ²⁾	1/6	
	6	50 60	380-415		403.1686	1/6	403.3286	1/6	
	7	50 60	480-500		403.16866	1/6	403.32866	1/6	
	9	50 60	200-250		403.1674	1/6	403.3274	1/6	
	10	100-300	>50		403.16861 ¹⁾	1/6	403.32861 ¹⁾	1/6	
	11	60	440-460		403.16865	1/6	403.32865	1/6	
	3P+N+E	2	>300-500	>50		403.16872 ¹⁾	1/6	403.32872 ¹⁾	1/6
		3	50 60	380 50Hz / 440 60Hz		403.16874	1/6	403.32874	1/6
4		50 60	100-130		403.1679	1/6	403.3279	1/6	
5		50 60	600-690		403.16877 ²⁾	1/6	403.32877 ²⁾	1/6	
6		50 60	346-415		403.1687	1/6	403.3287	1/6	
7		50 60	480-500		403.16876	1/6	403.32876	1/6	
9		50 60	208-250		403.1675	1/6	403.3275	1/6	
11		60	440-460		403.16875	1/6	403.32875	1/6	



IP: IP66/IP67/IP69
Flange: 170X380MM

Poles	h	Hz	Volt	Colour	63A		
2P+E	2	>300-500	>50		403.63832 ¹⁾	1	
	4	50 60	100-130		403.6370	1	
	6	50 60	200-250		403.6383	1	
	7	50 60	480-500		403.63836	1	
	9	50 60	380-415		403.6378	1	
	12	50 60	TST>50		403.63833	1	
3P+E	2	>300-500	>50		403.63862 ¹⁾	1	
	3	50 60	380 50Hz / 440 60Hz		403.63864	1	
	4	50 60	100-130		403.6372	1	
	5	50 60	600-690		403.63867 ²⁾	1	
	6	50 60	380-415		403.6386	1	
	7	50 60	480-500		403.63866	1	
	9	50 60	200-250		403.6374	1	
	10	100-300	>50		403.63861 ¹⁾	1	
	11	60	440-460		403.63865	1	
	3P+N+E	2	>300-500	>50		403.63872 ¹⁾	1
		3	50 60	380 50Hz / 440 60Hz		403.63874	1
4		50 60	100-130		403.6379	1	
5		50 60	600-690		403.63877 ²⁾	1	
6		50 60	346-415		403.6387	1	
7		50 60	480-500		403.63876	1	
9		50 60	208-250		403.6375	1	
11		60	440-460		403.63875	1	

Supplied with stainless steel fixing screws.

Empty base: ADVANCE-GRP System (fam. 579).

[i-Device]: an electronic device controls ("Intelligence Device") the status of the interlocked socket, monitoring the electrical functionality.

¹⁾The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System

■ WITHOUT BASE IP66/IP67/IP69 >> WITH FUSE CARRIER



IP: IP66/IP67/IP69
Flange: 130X260MM

Poles	h	Hz	Volt	Colour	16A	1/6	32A	1/6
2P+E	2	>300-500	>50	Green	402.16832-F ¹⁾	1/6	402.32832-F ¹⁾	1/6
	4	50 60	100-130	Yellow	402.1670-F	1/6	402.3270-F	1/6
	6	50 60	200-250	Blue	402.1683-F	1/6	402.3283-F	1/6
	7	50 60	480-500	Black	402.16836-F	1/6	402.32836-F	1/6
	9	50 60	380-415	Red	402.1678-F	1/6	402.3278-F	1/6
	12	50 60	TST>50	Grey	402.16833-F	1/6	402.32833-F	1/6
3P+E	2	>300-500	>50	Green	402.16862-F ¹⁾	1/6	402.32862-F ¹⁾	1/6
	3	50 60	380 50Hz / 440 60Hz	Red	402.16864-F	1/6	402.32864-F	1/6
	4	50 60	100-130	Yellow	402.1672-F	1/6	402.3272-F	1/6
	5	50 60	600-690	Black	402.16867-F ²⁾	1/6	402.32867-F ²⁾	1/6
	6	50 60	380-415	Red	402.1686-F	1/6	402.3286-F	1/6
	7	50 60	480-500	Black	402.16866-F	1/6	402.32866-F	1/6
	9	50 60	200-250	Blue	402.1674-F	1/6	402.3274-F	1/6
	10	100-300	>50	Green	402.16861-F ¹⁾	1/6	402.32861-F ¹⁾	1/6
	11	60	440-460	Red	402.16865-F	1/6	402.32865-F	1/6
	2	>300-500	>50	Green	402.16872-F ¹⁾	1/6	402.32872-F ¹⁾	1/6
	3P+N+E	3	50 60	380 50Hz / 440 60Hz	Red	402.16874-F	1/6	402.32874-F
4		50 60	100-130	Yellow	402.1679-F	1/6	402.3279-F	1/6
5		50 60	600-690	Black	402.16877-F ²⁾	1/6	402.32877-F ²⁾	1/6
6		50 60	346-415	Red	402.1687-F	1/6	402.3287-F	1/6
7		50 60	480-500	Black	402.16876-F	1/6	402.32876-F	1/6
9		50 60	208-250	Blue	402.1675-F	1/6	402.3275-F	1/6
11		60	440-460	Red	402.16875-F	1/6	402.32875-F	1/6



IP: IP66/IP67/IP69
Flange: 170X380MM

Poles	h	Hz	Volt	Colour	63A	1
2P+E	2	>300-500	>50	Green	402.63832-F ¹⁾	1
	3	DC	>50-250	Grey	402.63834-F	1
	4	50 60	100-130	Yellow	402.6370-F	1
	6	50 60	200-250	Blue	402.6383-F	1
	7	50 60	480-500	Black	402.63836-F	1
	9	50 60	380-415	Red	402.6378-F	1
3P+E	12	50 60	TST>50	Grey	402.63833-F	1
	2	>300-500	>50	Green	402.63862-F ¹⁾	1
	3	50 60	380 50Hz / 440 60Hz	Red	402.63864-F	1
	4	50 60	100-130	Yellow	402.6372-F	1
	5	50 60	600-690	Black	402.63867-F ²⁾	1
	6	50 60	380-415	Red	402.6386-F	1
	7	50 60	480-500	Black	402.63866-F	1
	9	50 60	200-250	Blue	402.6374-F	1
	10	100-300	>50	Green	402.63861-F ¹⁾	1
	11	60	440-460	Red	402.63865-F	1
	3P+N+E	2	>300-500	>50	Green	402.63872-F ¹⁾
3		50 60	380 50Hz / 440 60Hz	Red	402.63874-F	1
4		50 60	100-130	Yellow	402.6379-F	1
5		50 60	600-690	Black	402.63877-F ²⁾	1
6		50 60	346-415	Red	402.6387-F	1
7		50 60	480-500	Black	402.63876-F	1
9		50 60	208-250	Blue	402.6375-F	1
11		60	440-460	Red	402.63875-F	1

Supplied with stainless steel fixing screws.
Fuses not supplied.
Empty base: ADVANCE-GRP System (fam. 579).

¹⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

■ WITHOUT BASE IP66/IP67/IP69 >> WITH FUSE CARRIER - WITH "I-DEVICE"



IP: IP66/IP67/IP69
Flange: 130X260MM

Poles	h	Hz	Volt	Colour	16A	32A	
2P+E	2	>300-500	>50	Green	403.16832-F ¹⁾ 1/6	403.32832-F ¹⁾ 1/6	
	4	50 60	100-130	Yellow	403.1670-F 1/6	403.3270-F 1/6	
	6	50 60	200-250	Blue	403.1683-F 1/6	403.3283-F 1/6	
	7	50 60	480-500	Black	403.16836-F 1/6	403.32836-F 1/6	
	9	50 60	380-415	Red	403.1678-F 1/6	403.3278-F 1/6	
	12	50 60	TST>50	Grey	403.16833-F 1/6	403.32833-F 1/6	
3P+E	2	>300-500	>50	Green	403.16862-F ¹⁾ 1/6	403.32862-F ¹⁾ 1/6	
	3	50 60	380 50Hz / 440 60Hz	Red	403.16864-F 1/6	403.32864-F 1/6	
	4	50 60	100-130	Yellow	403.1672-F 1/6	403.3272-F 1/6	
	5	50 60	600-690	Black	403.16867-F ²⁾ 1/6	403.32867-F ²⁾ 1/6	
	6	50 60	380-415	Red	403.1686-F 1/6	403.3286-F 1/6	
	7	50 60	480-500	Black	403.16866-F 1/6	403.32866-F 1/6	
	9	50 60	200-250	Blue	403.1674-F 1/6	403.3274-F 1/6	
	10	100-300	>50	Green	403.16861-F ¹⁾ 1/6	403.32861-F ¹⁾ 1/6	
	11	60	440-460	Red	403.16865-F 1/6	403.32865-F 1/6	
	3P+N+E	2	>300-500	>50	Green	403.16872-F ¹⁾ 1/6	403.32872-F ¹⁾ 1/6
		3	50 60	380 50Hz / 440 60Hz	Red	403.16874-F 1/6	403.32874-F 1/6
4		50 60	100-130	Yellow	403.1679-F 1/6	403.3279-F 1/6	
5		50 60	600-690	Black	403.16877-F ²⁾ 1/6	403.32877-F ²⁾ 1/6	
6		50 60	346-415	Red	403.1687-F 1/6	403.3287-F 1/6	
7		50 60	480-500	Black	403.16876-F 1/6	403.32876-F 1/6	
9		50 60	208-250	Blue	403.1675-F 1/6	403.3275-F 1/6	
11		60	440-460	Red	403.16875-F 1/6	403.32875-F 1/6	



IP: IP66/IP67/IP69
Flange: 170X380MM

Poles	h	Hz	Volt	Colour	63A	
2P+E	2	>300-500	>50	Green	403.63832-F ¹⁾ 1	
	4	50 60	100-130	Yellow	403.6370-F 1	
	6	50 60	200-250	Blue	403.6383-F 1	
	7	50 60	480-500	Black	403.63836-F 1	
	9	50 60	380-415	Red	403.6378-F 1	
	12	50 60	TST>50	Grey	403.63833-F 1	
3P+E	2	>300-500	>50	Green	403.63862-F ¹⁾ 1	
	3	50 60	380 50Hz / 440 60Hz	Red	403.63864-F 1	
	4	50 60	100-130	Yellow	403.6372-F 1	
	5	50 60	600-690	Black	403.63867-F ²⁾ 1	
	6	50 60	380-415	Red	403.6386-F 1	
	7	50 60	480-500	Black	403.63866-F 1	
	9	50 60	200-250	Blue	403.6374-F 1	
	10	100-300	>50	Green	403.63861-F ¹⁾ 1	
	11	60	440-460	Red	403.63865-F 1	
	3P+N+E	2	>300-500	>50	Green	403.63872-F ¹⁾ 1
		3	50 60	380 50Hz / 440 60Hz	Red	403.63874-F 1
4		50 60	100-130	Yellow	403.6379-F 1	
5		50 60	600-690	Black	403.63877-F ²⁾ 1	
6		50 60	346-415	Red	403.6387-F 1	
7		50 60	480-500	Black	403.63876-F 1	
9		50 60	208-250	Blue	403.6375-F 1	
11		60	440-460	Red	403.63875-F 1	

Supplied with stainless steel fixing screws.

Fuses not supplied.

Empty base: ADVANCE-GRP System (fam. 579).

[i-Device]: an electronic device controls ("Intelligence Device") the status of the interlocked socket, monitoring the electrical functionality.

¹⁾ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

²⁾ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System

■ WITHOUT BASE IP66/IP67/IP69 >> WITH MCB



IP: IP66/IP67/IP69
Flange: 130X260MM

Poles	h	Hz	Volt	Colour	16A	1/6	32A	1/6
2P+E	4	50 60	100-130	Yellow	403.1670-M	1/6	403.3270-M	1/6
	6	50 60	200-250	Blue	403.1683-M	1/6	403.3283-M	1/6
	9	50 60	380-415	Red	403.1678-M	1/6	403.3278-M	1/6
3P+E	3	50 60	380 50Hz / 440 60Hz	Red	403.16864-M	1/6	403.32864-M	1/6
	4	50 60	100-130	Yellow	403.1672-M	1/6	403.3272-M	1/6
	6	50 60	380-415	Red	403.1686-M	1/6	403.3286-M	1/6
	9	50 60	200-250	Blue	403.1674-M	1/6	403.3274-M	1/6
	11	60	440-460	Red	403.16865-M	1/6	403.32865-M	1/6
3P+N+E	3	50 60	380 50Hz / 440 60Hz	Red	403.16874-M	1/6	403.32874-M	1/6
	4	50 60	100-130	Yellow	403.1679-M	1/6	403.3279-M	1/6
	6	50 60	346-415	Red	403.1687-M	1/6	403.3287-M	1/6
	9	50 60	208-250	Blue	403.1675-M	1/6	403.3275-M	1/6
	11	60	440-460	Red	403.16875-M	1/6	403.32875-M	1/6



IP: IP66/IP67/IP69
Flange: 170X380MM

Poles	h	Hz	Volt	Colour	63A	1
2P+E	4	50 60	100-130	Yellow	403.6370-M	1
	6	50 60	200-250	Blue	403.6383-M	1
	9	50 60	380-415	Red	403.6378-M	1
3P+E	3	50 60	380 50Hz / 440 60Hz	Red	403.63864-M	1
	4	50 60	100-130	Yellow	403.6372-M	1
	6	50 60	380-415	Red	403.6386-M	1
	9	50 60	200-250	Blue	403.6374-M	1
	11	60	440-460	Red	403.63865-M	1
3P+N+E	3	50 60	380 50Hz / 440 60Hz	Red	403.63874-M	1
	4	50 60	100-130	Yellow	403.6379-M	1
	6	50 60	346-415	Red	403.6387-M	1
	9	50 60	208-250	Blue	403.6375-M	1
	11	60	440-460	Red	403.63875-M	1

Supplied with stainless steel fixing screws.

Empty base: ADVANCE-GRP System (fam. 579).

MCB = Miniature circuit breaker with thermal magnetic trip unit.

With power indicating led.

■ SURFACE MOUNTING IP66 (125A) >> WITH SWITCH-DISCONNECTOR



Poles	h	Hz	Volt	Colour	125A	
2P+E	6	50 60	200-250		503.12583	1
	5	50 60	600-690		503.125867	1
3P+E	6	50 60	380-415		503.12586	1
	9	50 60			503.12574	1
	11	60	440-460		503.125865	1
3P+N+E	3	50 60	380 50Hz / 440 60Hz		503.125874	
	6	50 60	346-415		503.12587	1

Blank side with drilling point marks.

IP: IP66

■ SURFACE MOUNTING IP66 (125A) >> WITH SWITCH-DISCONNECTOR AND FUSE



Poles	h	Hz	Volt	Colour	125A	
2P+E	6	50 60	200-250		503.12583-F	1
3P+E	6	50 60	380-415		503.12586-F	1
	9	50 60			503.12574-F	1
3P+N+E	6	50 60	346-415		503.12587-F	1

Blank side with drilling point marks.
Fuses not supplied.

IP: IP66

■ SURFACE MOUNTING IP66 (125A) >> WITH FUSE AND SWITCH



Poles	h	Hz	Volt	Colour	125A	
2P+E	6	50 60	200-250		503.12583-FS	1
3P+E	6	50 60	380-415		503.12586-FS	1
3P+N+E	6	50 60	346-415		503.12587-FS	1

Blank side with drilling point marks.
Fuses not supplied.

IP: IP66

■ SURFACE MOUNTING IP66 (125A) >> WITH MCCB



Poles	h	Hz	Volt	Colour	125A	
2P+E	6	50 60	200-250		503.12583-M	1
3P+E	6	50 60	380-415		503.12586-M	1
3P+N+E	6	50 60	346-415		503.12587-M	1

Blank side with drilling point marks.
MCCB = Molded case circuit breaker with thermal magnetic trip unit

IP: IP66



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System

■ SURFACE MOUNTING IP66 (125A) >> WITH MCCB & RCD



Poles	h	Hz	Volt	Colour	125A	
2P+E	6	50 60	200-250		503.12583-RM	1
3P+E	6	50 60	380-415		503.12586-RM	1
3P+N+E	6	50 60	346-415		503.12587-RM	1

Blank side with drilling point marks.

MCCB & RCD = Molded case circuit breaker with thermal magnetic and residual current release trip unit.

IP: IP66

■ SURFACE MOUNTING IP66 (125A) >> WITH CONTACTOR



Poles	h	Hz	Volt	Colour	125A	
2P+E	6	50 60	200-250		503.12583-T	1
3P+E	6	50 60	380-415		503.12586-T	1
3P+N+E	6	50 60	346-415		503.12587-T	1

Blank side with drilling point marks.

IP: IP66

■ EXTRA LOW VOLTAGE <50V - IP66/IP67/IP69 >> VERSION WITH SAFETY TRANSFORMER - PANEL MOUNTING



Poles	h	Volt	Colour	16A		32A	
2P		20-25		403.2420	1/4	403.2620	1/4
		24		403.2416 ¹⁾	1/4		
	12	40-50		403.2421	1/4	403.2621	1/4

When plug is inserted a micro-switch is activated and closes the circuit.

Supplied with stainless steel fixing screws.

Empty base: ADVANCE-GRP System (fam. 579).

For the choice of bases, refer to the 16A-32A module.

¹⁾SELV transformer 220/24V- 150VA (continuous duty).

IP: IP66/IP67/IP69
Flange: 130X260MM



ADVANCE-GRP
**Far from
common places**

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System



ADVANCE-GRP[UL] Series

ADVANCE-GRP[UL] is a complete range of interlocked industrial socket outlets from 20 to 60A, UL /CSA listed for the North American market and countries where the UL standard is recognized. The body made of thermosetting material GRP (Glass fiber Reinforced Polyester) offers maximum resistance to impact (IK10 at temperatures between -40 and +60°C), as well as to heat and fire (GW 960°C), proving to be insensitive to corrosion and to atmospheric and chemical agents. The ergonomic knob, padlocked in ON or OFF position, makes it possible to operate even when wearing work gloves, while the led light positioned on the front immediately communicates the status of the socket, whether powered or not.

technical sheet p. 764

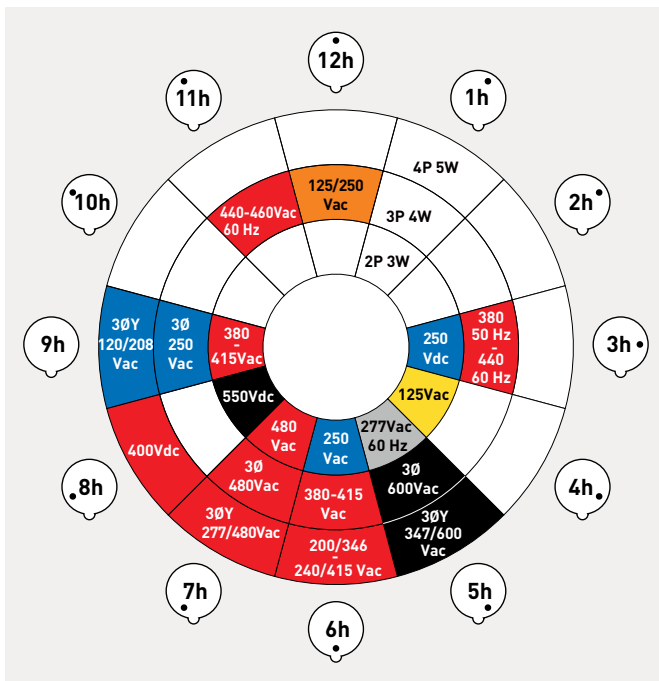
Industrial plugs and sockets for the north american market

COLOUR CODE

The operating voltages are identified by conventional colours as shown in the table:

Rated operating	Colour
110/130V	
208/250V	
380/480V	
500/690V	
277V	
125/250V	

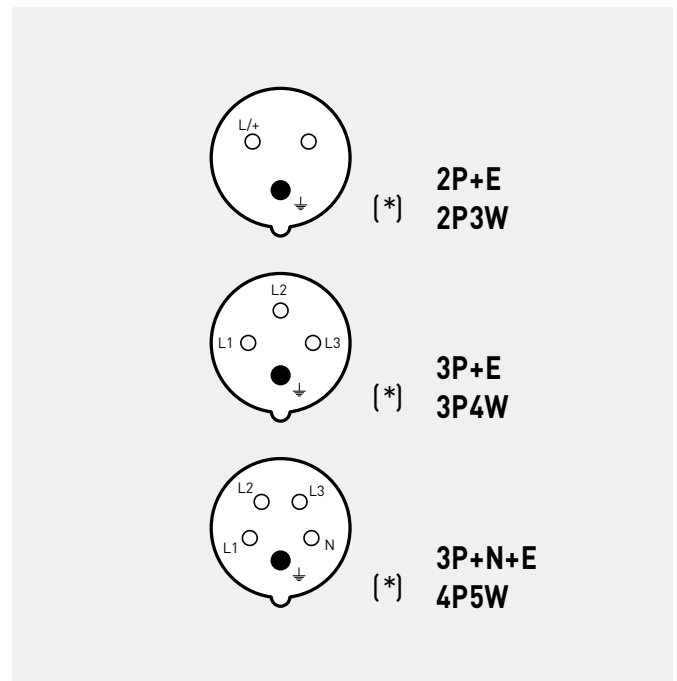
CLOCK FACE POSITION - UL RATINGS



Clock diagram

Viewing a UL Standard connector and receptacle from the front, clock our position (h) is established by the position of the earth contact respect the major keyway which is always situated at 6h clock position.

SOCKET AND RECEPTACLE (FRONT VIEW)



(*) Major keyway.

Synoptic table of standard industrial plugs and sockets to UL 1682/1686 e C22.2 N.182.1

RATED OPERATING VOLTAGE > 50 V (LV)

Number of contact	Poles	Frequency Hz	Rated operating voltage V	Clock face pos. (h) Earth contact ¹⁾		Colour code
				16A - 32A	63A - 125A	
3 2P3W	1P+N+E	50 and 60	100÷130	4	4	
		60	277	5	5	
	2P+E	50 and 60	100÷130	4	4	
		50 and 60	200÷250	6	6	
		50 and 60	380÷415	9	9	
		50 and 60	480÷500	7	7	
		50 and 60	suppl. by isol. transf.	12	12	- 5)
		100÷300	> 50	10	10	4)
		>300÷500	> 50	2	2	4)
		d.c.	>50÷250	3	3	- 5)
d.c.	> 250	8	8	- 5)		
4 3P4W	2P+N+E	50 and 60	125/250	12	12	
	3P+E	50 and 60	100÷130	4	4	
		50 and 60	200÷250	9	9	
		50 and 60	380÷415	6	6	
		60	440÷460 ³⁾	11	11	
		50 and 60	480÷500	7	7	
		50 and 60	600÷690	5	5	
		50	380	3	3	
		60	440 ²⁾	3	3	
		50 and 60	1000	8	8	
100÷300	> 50	10	-	4)		
>300÷500	> 50	2	-	4)		
5 4P5W	3P+N+E	50 and 60	57/100÷75/130	4	4	
		50 and 60	120/208÷144/250	9	9	
		50 and 60	200/346÷240/415	6	6	
		50 and 60	277/480÷288/500	7	7	
		50 and 60	347/600÷400/690	5	5	
		60	250/440÷265/460 ³⁾	11	11	
		50	220/380	3	3	
		60	250/440 ³⁾	3	3	
		50 and 60	1000	8	8	
		50 and 60	suppl. by isol. transf.	12	12	
100÷300	> 50	10	10	4)		
>300÷500	> 50	2	2	4)		
All types		All types of voltage and/or frequency not within these standardised configurations		1	1	-

¹⁾ The positions shown by a dash (-) are not standardised.

²⁾ For ISO standard refrigerated containers.

³⁾ Mainly for shipboard installations.

⁴⁾ Combinations of green with the colour of the rated operating voltage can be used to identify frequencies >60÷500Hz.

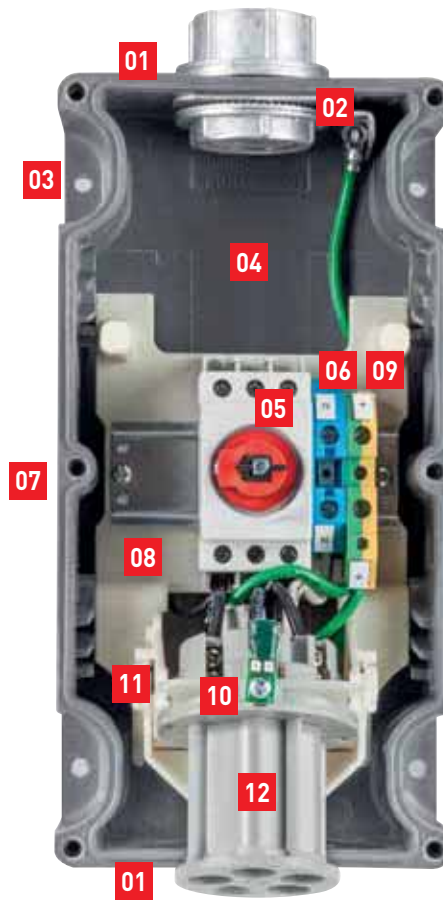
⁵⁾ Plugs and sockets for which the IEC 60309-2 standard sets only the clock face position (h) of the earth contact and not the colour, are supplied by SCAME in RAL 7035 grey.



1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System

Technical information

Main characteristics 20A-30A-60A



- 01** Blank sides with drilling point marks
- 02** Pre-wired grounding plate connected to metal conduit grounding system
- 03** External fixing point
- 04** Wide internal space to ease wiring operations
- 05** Motor disconnect switch
- 06** Neutral terminal
- 07** Threaded metal insert
- 08** Easily removable support
- 09** Earth terminal
- 10** Power indicator led
- 11** Possibility of microswitch with plug-inserted control function
- 12** Prewired receptacle accepts all manufacturer's IEC60309-2 pin and sleeve plugs

Application examples



Wineries
248



Food industry



- 01** Unlosable single-piece waterproof gasket
- 02** Dual mechanical interlock to increase safety
- 03** Lockable handle to meet OSHA lockout/tagout regulation
- 04** Power indicator LED
 - LIGHT ON - socket powered
 - LIGHT OFF - socket not powered

- 05** Cover entirely separate from the box to ease installation
- 06** Captive stainless steel closing screws
- 07** Module in high-temperature resistant engineering polymer
- 08** Bottom side entry possibility (also loop-in - loop-out)



Port - Container terminal



Heavy industry

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System

■ WITHOUT BASE IP66/67/69 - TYPE 12, 3R, 4, 4X - WATERTIGHT >> WITHOUT FUSE CARRIER



IP: IP66/IP67/IP69
Flange: 130X260MM

Poles	h	Volt	Colour	20A	30A
2P 3W	4	125	Yellow	SCM320MI4W-NB	SCM330MI4W-NB
	6	250	Blue	SCM320MI6W-NB	SCM330MI6W-NB
	7	480	Red	SCM320MI7W-NB	SCM330MI7W-NB
3P 4W	5	3Ø600	Black	SCM420MI5W-NB	SCM430MI5W-NB
	7	3Ø480	Red	SCM420MI7W-NB	SCM430MI7W-NB
	9	3Ø250	Blue	SCM420MI9W-NB	SCM430MI9W-NB
	12	125/250	Orange	SCM420MI12W-NB	SCM430MI12W-NB
4P 5W	5	3ØY347/600	Black	SCM520MI5W-NB	SCM530MI5W-NB
	7	3ØY277/480	Red	SCM520MI7W-NB	SCM530MI7W-NB
	9	3ØY120/208	Blue	SCM520MI9W-NB	SCM530MI9W-NB



IP: IP66/IP67/IP69
Flange: 170X380MM

Poles	h	Volt	Colour	60A
2P 3W	6	250	Blue	SCM360MI6W-NB
	7	480	Red	SCM360MI7W-NB
3P 4W	5	3Ø600	Black	SCM460MI5W-NB
	7	3Ø480	Red	SCM460MI7W-NB
	9	3Ø250	Blue	SCM460MI9W-NB
4P 5W	5	3ØY347/600	Black	SCM560MI5W-NB
	7	3ØY277/480	Red	SCM560MI7W-NB
	9	3ØY120/208	Blue	SCM560MI9W-NB

UL listed.
Empty base: ADVANCE-GRP System (fam. 579).
With power indicating led.
To be matched with the respective bases.

■ SURFACE MOUNTING IP66/67/69 - TYPE 12K, 3R, 4, 4X - WATERTIGHT >> WITHOUT FUSE CARRIER



IP: IP66/IP67/IP69
Flange: 130X260MM

Poles	h	Volt	Colour	20A	30A
2P 3W	4	125	Yellow	SCM320MI4W	SCM330MI4W
	6	250	Blue	SCM320MI6W	SCM330MI6W
	7	480	Red	SCM320MI7W	SCM330MI7W
3P 4W	5	3Ø600	Black	SCM420MI5W	SCM430MI5W
	7	3Ø480	Red	SCM420MI7W	SCM430MI7W
	9	3Ø250	Blue	SCM420MI9W	SCM430MI9W
	12	125/250	Orange	SCM420MI12W	SCM430MI12W
4P 5W	5	3ØY347/600	Black	SCM520MI5W	SCM530MI5W
	7	3ØY277/480	Red	SCM520MI7W	SCM530MI7W
	9	3ØY120/208	Blue	SCM520MI9W	SCM530MI9W



IP: IP66/IP67/IP69
Flange: 170X380MM

Poles	h	Volt	Colour	60A
2P 3W	6	250	Blue	SCM360MI6W
	7	480	Red	SCM360MI7W
3P 4W	5	3Ø600	Black	SCM460MI5W
	7	3Ø480	Red	SCM460MI7W
	9	3Ø250	Blue	SCM460MI9W
4P 5W	5	3ØY347/600	Black	SCM560MI5W
	7	3ØY277/480	Red	SCM560MI7W
	9	3ØY120/208	Blue	SCM560MI9W

UL listed.
With power indicating led.
Already supplied with simple single bottom.

■ SURFACE MOUNTING IP66/67/69 - TYPE 12K, 3R, 4, 4X - WATERTIGHT >> WITHOUT FUSE CARRIER - WITH CONSUMER UNITS 6 DIN



IP: IP66/IP67/IP69
Flange: 130X460MM

Poles	h	Volt	Colour	20A		30A	
2P 3W	4	125		SCM320MI4W-C	1/6	SCM330MI4W-C	1/6
	6	250		SCM320MI6W-C	1/6	SCM330MI6W-C	1/6
	7	480		SCM320MI7W-C	1/6	SCM330MI7W-C	1/6
3P 4W	5	3Ø600		SCM420MI5W-C	1/6	SCM430MI5W-C	1/6
	7	3Ø480		SCM420MI7W-C	1/6	SCM430MI7W-C	1/6
	9	3Ø250		SCM420MI9W-C	1/6	SCM430MI9W-C	1/6
	12	125/250		SCM420MI12W-C	1/6	SCM430MI12W-C	1/6
4P 5W	5	3ØY347/600		SCM520MI5W-C	1/6	SCM530MI5W-C	1/6
	7	3ØY277/480		SCM520MI7W-C	1/6	SCM530MI7W-C	1/6
	9	3ØY120/208		SCM520MI9W-C	1/6	SCM530MI9W-C	1/6



IP: IP66/IP67/IP69
Flange: 170X580MM

Poles	h	Volt	Colour	60A	
2P 3W	6	250		SCM360MI6W-C	1
	7	480		SCM360MI7W-C	1
3P 4W	5	3Ø600		SCM460MI5W-C	1
	7	3Ø480		SCM460MI7W-C	1
	9	3Ø250		SCM460MI9W-C	1
4P 5W	5	3ØY347/600		SCM560MI5W-C	1
	7	3ØY277/480		SCM560MI7W-C	1
	9	3ØY120/208		SCM560MI9W-C	1

UL listed.

With power indicating led.

Already supplied with single bottom with control unit for installation of protective switches or other devices from DIN guide.



ADVANCE-GRP SYSTEM
ADVANCE-GRP[UL] SERIES

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System



Components

The availability of modular bases and enclosure, with or without junction box or switchboard, allows the realization of modular and flexible combinations units.

technical sheet p. 766

■ EMPTY BASES IP66/IP67/IP69 >> EMPTY BASE 16A-32A



Description	Dimensions	IP	Notes	Code	
MODULAR BASE	130x260mm	IP66/IP67/IP69	16A-32A	579.5100	1

Blank side with drilling point marks.
Power dissipation calculated in conformity with CEI 23-49 italian standards.
IP66/IP67/IP69 when coupled with the respective component.

■ EMPTY BASES IP66/IP67/IP69 >> EMPTY BASE 63A



Description	Dimensions	IP	Notes	Code	
MODULAR BASE	170x380mm	IP66/IP67/IP69	63A	579.5200	1

Blank side with drilling point marks.
Power dissipation calculated in conformity with CEI 23-49 italian standards.
IP66/IP67/IP69 when coupled with the respective component.

■ EMPTY BASES IP66/IP67/IP69 >> EMPTY BASE 16A-32A WITH JUNCTION BOX



Description	Dimensions	IP	Notes	Code	
MODULAR BASE	130x460mm	IP66/IP67/IP69	16A-32A	579.5110	1

Blank side with drilling point marks.
Power dissipation calculated in conformity with CEI 23-49 italian standards.
IP66/IP67/IP69 when coupled with the respective component.

■ EMPTY BASES IP66/IP67/IP69 >> EMPTY BASE 16A-32A WITH JUNCTION BOX (DOUBLE)


Description	Dimensions	IP	Notes	Code	
MODULAR BASE	260x460mm	IP66/IP67/IP69	16A-32A	579.5120	1

Blank side with drilling point marks.
 Power dissipation calculated in conformity with CEI 23-49 italian standards.
 IP66/IP67/IP69 when coupled with the respective component.

■ EMPTY BASES IP66/IP67/IP69 >> EMPTY BASE 63A WITH JUNCTION BOX


Description	Dimensions	IP	Notes	Code	
MODULAR BASE	170x580mm	IP66/IP67/IP69	63A	579.5210	1

Blank side with drilling point marks.
 Power dissipation calculated in conformity with CEI 23-49 italian standards.
 IP66/IP67/IP69 when coupled with the respective component.

■ EMPTY BASES IP66/IP67/IP69 >> EMPTY BASE 16A-32A WITH DIN RAIL


Description	Dimensions	IP	Notes	Code	
MODULAR BASE	130x460mm	IP66/IP67/IP69	16A-32A - 6 DIN	579.5111	1

Blank side with drilling point marks.
 Power dissipation calculated in conformity with CEI 23-49 italian standards.
 IP66/IP67/IP69 when coupled with the respective component.



Description	Dimensions	IP	Notes	Code	
MODULAR BASE	130x460mm	IP66/IP67/IP69	16A-32A - 6 DIN	579.5112.D	1

Blank side with drilling point marks.
 Power dissipation calculated in conformity with CEI 23-49 italian standards.
 IP66/IP67/IP69 when coupled with the respective component.

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System

■ EMPTY BASES IP66/IP67/IP69 >> EMPTY BASE 16A-32A WITH DIN RAIL (DOUBLE)



Description	Dimensions	IP	Notes	Code	
MODULAR BASE	260x460mm	IP66/IP67/IP69	16A-32A - 12 DIN	579.5122.D	1

Blank side with drilling point marks.
Power dissipation calculated in conformity with CEI 23-49 italian standards.
IP66/IP67/IP69 when coupled with the respective component.



Description	Dimensions	IP	Notes	Code	
MODULAR BASE	260x460mm	IP66/IP67/IP69	16A-32A - 13 DIN	579.5121	1

Blank side with drilling point marks.
Power dissipation calculated in conformity with CEI 23-49 italian standards.
IP66/IP67/IP69 when coupled with the respective component.

■ EMPTY BASES IP66/IP67/IP69 >> EMPTY BASE 63A WITH DIN RAIL



Description	Dimensions	IP	Notes	Code	
MODULAR BASE	170x580mm	IP66/IP67/IP69	63A - 8 DIN	579.5211	1

Blank side with drilling point marks.
Power dissipation calculated in conformity with CEI 23-49 italian standards.
IP66/IP67/IP69 when coupled with the respective component.



Description	Dimensions	IP	Notes	Code	
MODULAR BASE	170x580mm	IP66/IP67/IP69	63A - 8 DIN	579.5212.D	1

Blank side with drilling point marks.
Power dissipation calculated in conformity with CEI 23-49 italian standards.
IP66/IP67/IP69 when coupled with the respective component.

MODULAR PLATE - GALVANIZED STEEL



Description	Dimensions	Notes	Code	
MODULAR PLATE	260x395mm	2x16/32A	579.0070	1/10
	390x395mm	3x16/32A	579.0080	1
	390x560mm	3x16/32A	579.0030	
	430x685mm	2x16/32A + 1x63A	579.0021	
	520x560mm	4x16/32A	579.0040	
	560x685mm	3x16/32A + 1x63A	579.0031	
	600x685mm	2x16/32A + 2x63A	579.0022	

MODULAR PLATE - STAINLESS STEEL



Description	Dimensions	Notes	Code	
MODULAR PLATE	390x395mm	3x16/32A	579.0080X	1
	390x560mm	3x16/32A	579.0030X	1
	430x685mm	1x16/32A + 1x63A	579.0021X	1

ACCESSORIES >> KIT MICROSWITCH



Description	Code	
MICROSWITCH KIT	579.0100	12

For plug-inserted control; not suitable for electrically interlocked socket.
Max 1 kit for 16A-32A sockets; Max 2 kit for 63A sockets.



Description	Code	
MICROSWITCH KIT	579.0125	1

For plug-inserted control; not suitable for electrically interlocked socket.
Max. 2 kits.

1.2 SWITCHED INTERLOCKED SOCKET OUTLETS ADVANCE-GRP System

■ ACCESSORIES >> JUNCTION BOX KIT



Description	Cable entry	Code	
JUNCTION BOX KIT	M40X1,5	579.0200	12
	M50X1,5	579.0201	12

IP66/IP67/IP69 when coupled with the respective component.
Includes cable gland and gasket.

■ ACCESSORIES >> COUPLING KIT



Description	Cable entry	Code	
ADAPTOR COUPLING KIT	M32X1,5	579.0332	1/12

IP66/IP67/IP69 when coupled with the respective component.
Includes cable gland and gasket.

■ CONTACT BLOCKS



Description	Colour	Switch size	Code	
NC CONTACT		F1 Y1 D1	590.PL004001 ¹⁾	10/60
		Y2	590.PL004003 ¹⁾	10
NO CONTACT		F1 Y1 D1	590.PL004002 ²⁾	10/60
		Y2	590.PL004004 ²⁾	10

Snap catch.

¹⁾ NC=Normally closed.

²⁾ NO=Normally open.

ACCESSORIES



Description	IP	Notes	Code	
BLANK PLATE FOR DIN MODULES			579.0450	10



Description	IP	Notes	Code	
BASE BLANK COVER	IP66/IP67/IP69	16A-32A	579.5001	1/10

Cover used to close the socket compartment; allows other devices to be installed.

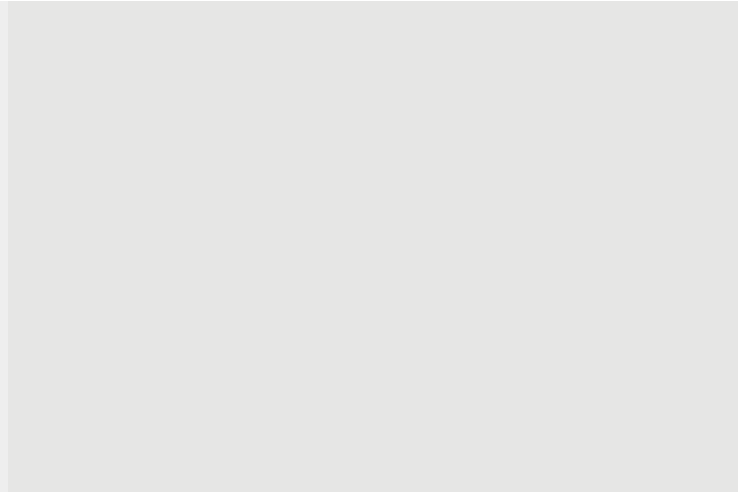


Description	IP	Notes	Code	
SCREW KNOBS KIT			579.0400	1/12

For bases with control units instead of screws for closing door.







SISTEMA AMF
ESTIMATED METER READING

Home Sockets Measures Commands Events

Socket description

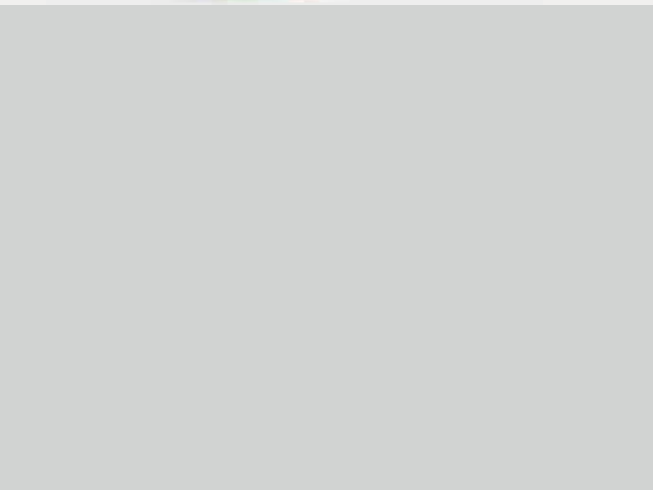
- Device
- Current
- Mean values
- Counters



Name	FORNO SERMAC
Location	PARTEC, FOUNDRY DEPA SERMAC OVEN
Model	ADVANCE-GRP AMR 32A
Part number	402 3286-F AB/CD
Firmware version	1.129
Plug	Connected
Selector	On
Datalog	FORNO SERMAC <input checked="" type="checkbox"/>
Notifications from device	<input type="checkbox"/>
Alarm rule	FORNO PARTEC <input type="checkbox"/>
Calendar	None
Calendar status	No active calendar found



**IOT INTERLOCKED
SOCKETS**



1.3 IOT INTERLOCKED SOCKETS AMR System



AMR SYSTEM

ADVANCE-GRP[AMR] SERIES

p. 266

Industrial switched interlocked socket outlets in GRP thermosetting material with Automated Meter Reading.



The AMR system

In response to the growing focus on energy efficiency, the AMR system guarantees data logger functions, measuring and recording over time the energy consumption of any user device, thus helping to comply with Directive 2012/27/EU on energy efficiency.

Moreover, energy is measured not only in quantitative terms, but also in terms of quality: through constant monitoring of the system status and real-time reporting of any phase-related malfunction, presence of earth, status of fuses and power factor, the AMR system guarantees the elimination of waste typical of supplied energy of poor quality and allows preventive maintenance to be carried out so as to zero out equipment repair costs and production downtimes.

There is no innovation if there is no user-friendliness.



The AMR managerial software, residing locally on the server or in cloud environment, makes it possible to receive alarms and manage events, which can be also conveniently scheduled through the calendar function in remote, from any connected PC.

The integrability of the devices and of the AMR software with PLC, SCADA or other third-party systems, allows

the acquired data to be transferred to company ERP.

This is why the SCAME devices equipped with AMR functionality have obtained INDUSTRY 4.0 COMPLIANT certification.

Functions and fields of application

The fields of application of the AMR system are endless, since the needs that the following AMR functions are able to meet are common to the most diverse applications:

- Data collection in terms of quantity and quality
- Consumption monitoring
- Monitoring from remote
- Load management
- Monitoring proper functioning of the socket

- Checking plug insertion
- Checking the presence of earth connection
- Checking the status of the fuses
- Sending of alarms

These are all relevant parameters related to safety and to energy efficiency, whether we are talking about industry, container terminals, harbours, airports, worksites, camping or marinas.



Container



Ports



Industry

Hardware and installation

The essential is invisible to the eye.

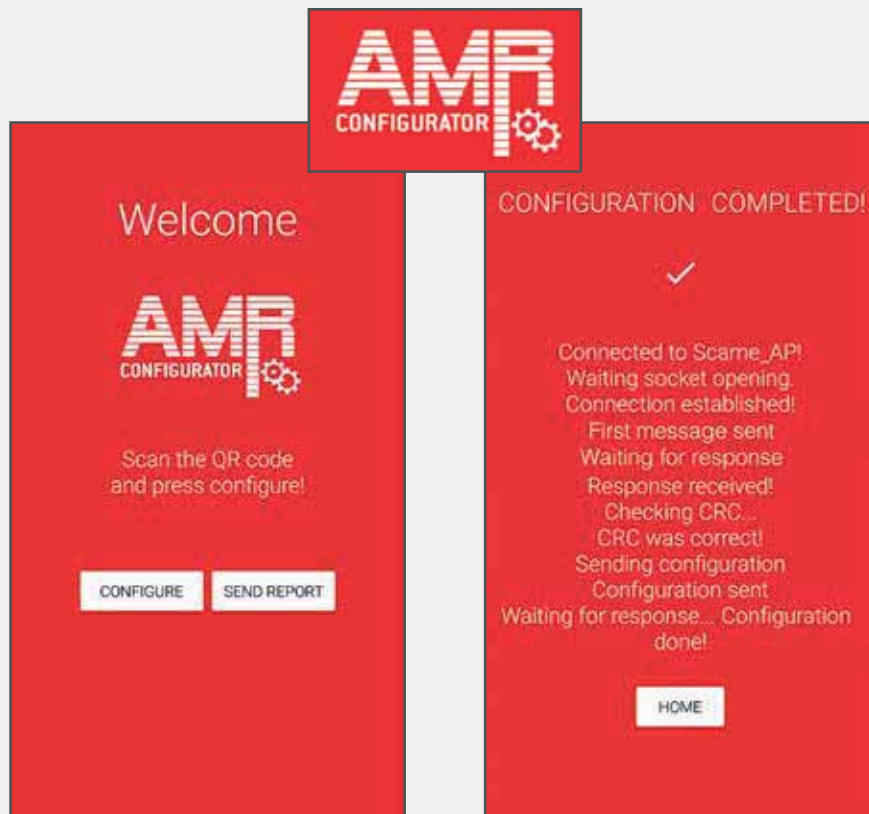
That which looks like on the outside as a normal industrial interlocked socket outlet, a distribution assembly or a standard junction box, when equipped with AMR function hides on its inside a circuit board with integrated Wi-Fi module that does not require any additional wiring operations except those need to power the device itself, thus resulting in significant savings in terms of installation time, material and costs.

Thanks to this circuit board, the distribution device performs a "multi-service", providing power for proper functioning of the connected load and, at the same time, carrying out monitoring and management functions, with a 1% accuracy as regards current/voltage, and 1.5% for power/energy.

A technological product designed to simplify the user's life should not complicate it by a difficult installation.

This is why, through the dedicate app "AMR Configurator", you can just scan, via smartphone or tablet, the QR code associated with the installed product to download the circuit board configuration files from the cloud environment.

Devices equipped with AMR functionality are preset also for communicating locally with other AMR devices via Canbus channels or through proper ETH RS485 converter.



Managerial software and integration with existing systems

The server has the function of monitoring the devices, processing their status and maintaining the latter for a set time, issuing notices in case of anomalous conditions.

Through the sampling of energy data, the PC will be able to process information related to the consumption profile, representing the data in graphic form.

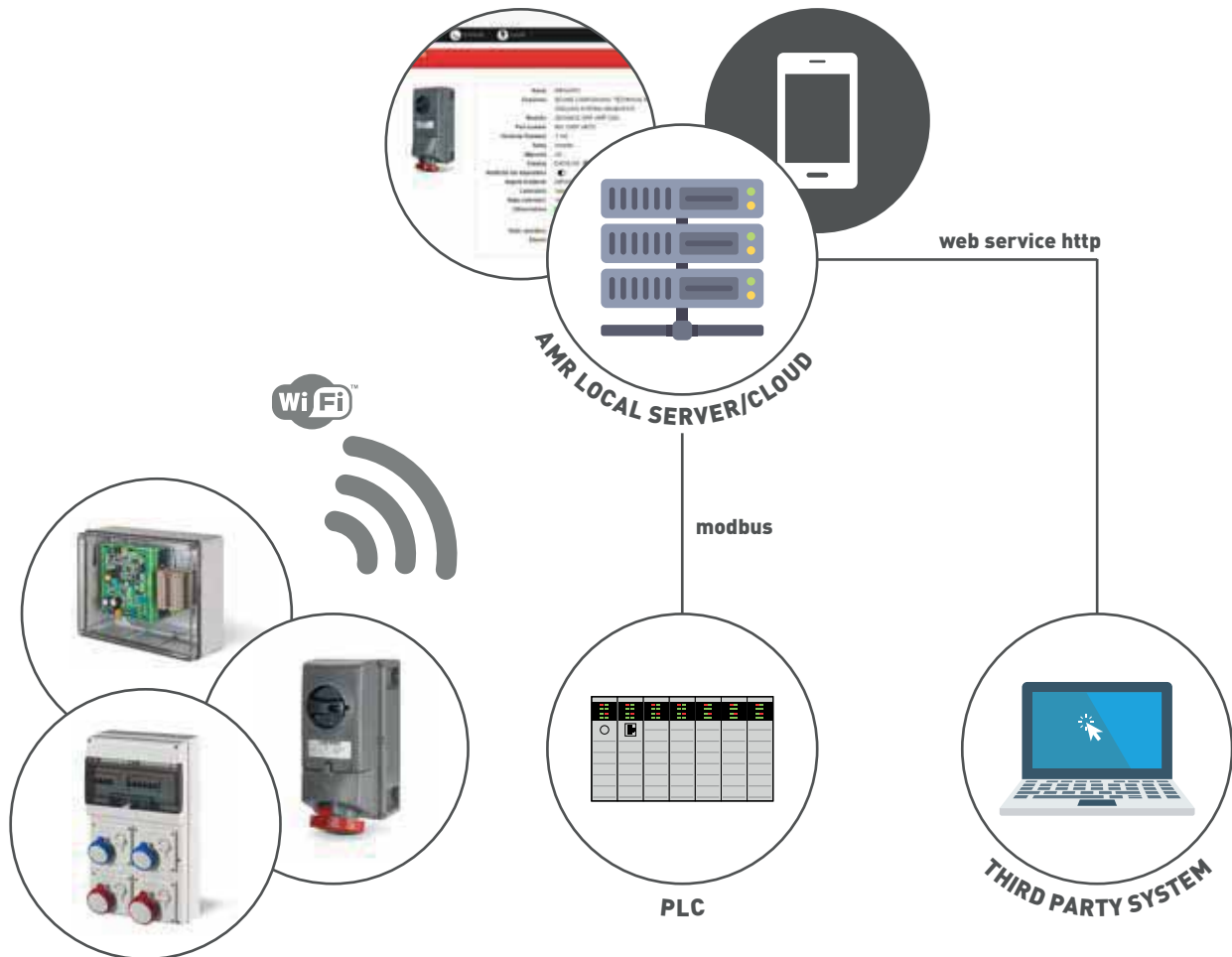
The software can be structured in relation to customer needs.

The system is able to make qualitative measurements: it is also possible to monitor the power factor, avoiding penalties related to a low $\text{Cos}\phi$, as well as to eliminate waste by controlling motors, lighting, heating, air-conditioning, compressors, chillers, transformers, distribution lines and other utilities.

The AMR software can be integrated with PLC, SCADA or other third-party systems, thus overcoming the typical problems of incompatibility among different platforms, which cause dangerous slowdowns in company processes.

Instead, AMR guarantees data acquisition in the company's ERP systems for future strategic evaluations.

Lastly, allowing real remote monitoring to be truly remote, the managerial software is accessible, with all data and graphics available on line, via web by connecting to the company server, or by accessing the AMR Storage Cloud, in the latter mode further reducing overhead and maintenance costs tied to the presence of a physical server.



Datalogger functionality

The AMR functionality comes equipped with a precise and extremely versatile energy meter, specifically designed to adapt itself to the most sophisticated applications that monitor electrical parameters and energy consumption, allowing real-time reading of all the collected data via the Internet.

It is also possible to send, via e-mail or txt message, local alarms caused by any sort of anomalies, thus informing the Energy Manager in real time on the status of his system, through any device which can display a web page.



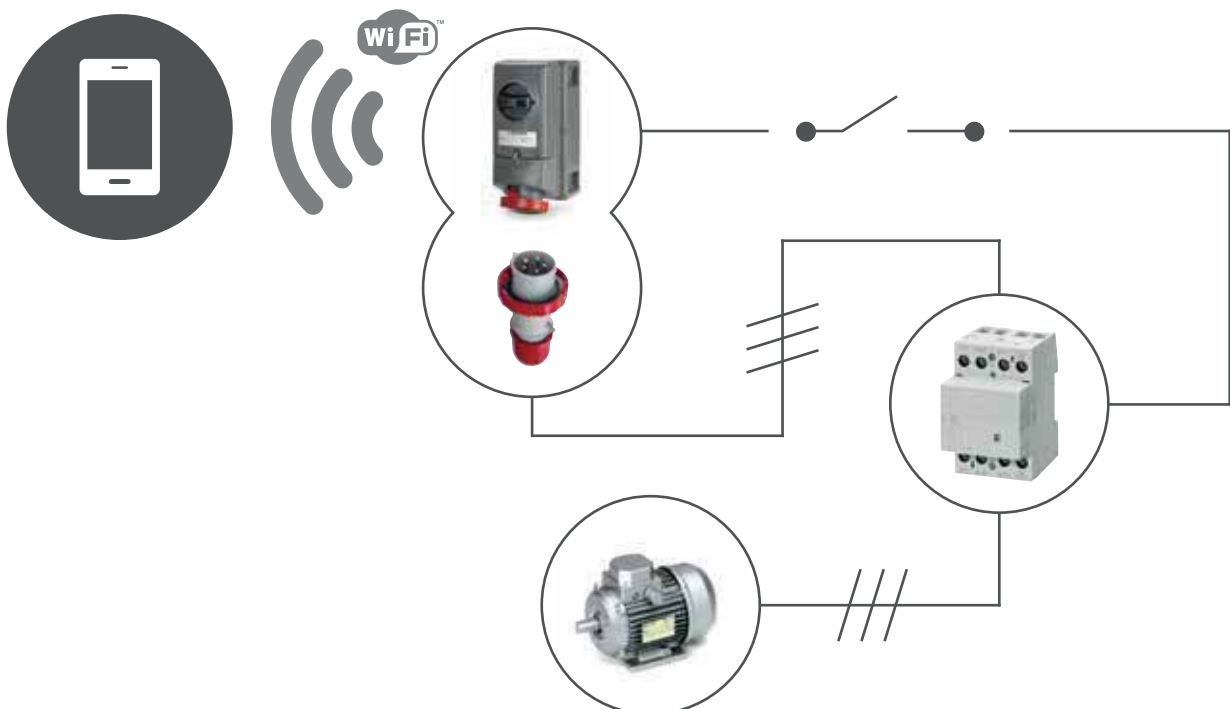
Remote load management functionality

The AMR system is preset for load management, also from remote, either as a response to an alarm received or as the result of programming through the convenient calendar feature, which can be used to plan specific actions and activation/deactivation rules on a set day or at a set time. This function is particularly useful for planning routine maintenance or for automatically modulating the energy supply in view of scheduled events. The user can thus set one or more calendars for each device equipped with AMR function and associate alarm rules.

During the activation phase, reports are generated on the start of calendar processing and on the true/false status of the calendar itself.



The remote load management function, precisely for the fact that it generates an alarm as soon as the system starts to malfunction, represents the best way for preventing overload risks through the subsequent operation of disconnecter switches and the disservice that would result from any machine downtime.



AMR SYSTEM



1.3 IOT INTERLOCKED SOCKETS

AMR System



ADVANCE-GRP[AMR] Series

AMR (Automated Meter Reading) ensures data logger functionality, measuring and recording the consumption of any connected user equipment over time, in line with the growing attention to energy saving.

AMR guarantees the elimination of waste related to the poor quality of the energy supplied and allows preventive maintenance by eliminating the costs of any production stops, through constant monitoring of the plant and the real-time reporting of any anomaly.

AMR integrates additional features in a single energy supply device, which are guaranteed to date by different specific instruments.

■ AMR SOCKET OUTLETS >> PANEL MOUNTING IP66/IP67/IP69 >> WITHOUT FUSE CARRIER - AMR



Poles	h	Volt	Colour	16A		32A	
2P+E	6	200-250		403.AMR1683	1	403.AMR3283	1
3P+E	3	380 50Hz / 440 60Hz				403.AMR32864	1
	6	380-415		403.AMR1686	1	403.AMR3286	1
3P+N+E	6	346-415		403.AMR1687	1	403.AMR3287	1

Supplied with stainless steel fixing screws.

IP: IP66/IP67/IP69
Flange: 130X260MM



Poles	h	Volt	Colour	63A	
2P+E	6	200-250		403.AMR6383	1
3P+E	6	380-415		403.AMR6386	1
3P+N+E	6	346-415		403.AMR6387	1

Supplied with stainless steel fixing screws.

IP: IP66/IP67/IP69
Flange: 170X380MM

■ AMR SOCKET OUTLETS >> PANEL MOUNTING IP66/IP67/IP69 >> WITH FUSE CARRIER - AMR



IP: IP66/IP67/IP69
Flange: 130X260MM

Poles	h	Volt	Colour	16A	32A
2P+E	6	200-250	Blue	403.AMR1683-F 1	403.AMR3283-F 1
3P+E	3	380 50Hz / 440 60Hz	Red		403.AMR32864-F 1
	6	380-415	Red	403.AMR1686-F 1	403.AMR3286-F 1
3P+N+E	6	346-415	Red	403.AMR1687-F 1	403.AMR3287-F 1

Supplied with stainless steel fixing screws.
Fuses not supplied.



IP: IP66/IP67/IP69
Flange: 170X380MM

Poles	h	Volt	Colour	63A
2P+E	6	200-250	Blue	403.AMR6383-F 1
3P+E	6	380-415	Red	403.AMR6386-F 1
3P+N+E	6	346-415	Red	403.AMR6387-F 1

Supplied with stainless steel fixing screws.
Fuses not supplied.

■ AMR SOCKET OUTLETS >> PANEL MOUNTING IP66/IP67/IP69 >> WITH MCB - AMR



IP: IP66/IP67/IP69
Flange: 130X260MM

Poles	h	Volt	Colour	16A	32A
2P+E	6	200-250	Blue	403.AMR1683-M 1	403.AMR3283-M 1
3P+E	3	380 50Hz / 440 60Hz	Red		403.AMR32864-M 1
	6	380-415	Red	403.AMR1686-M 1	403.AMR3286-M 1
3P+N+E	6	346-415	Red	403.AMR1687-M 1	403.AMR3287-M 1

Supplied with stainless steel fixing screws.
MCB = Miniature circuit breaker with thermal magnetic trip unit.



IP: IP66/IP67/IP69
Flange: 170X380MM

Poles	h	Volt	Colour	63A
2P+E	6	200-250	Blue	403.AMR6383-M 1
3P+E	6	380-415	Red	403.AMR6386-M 1
3P+N+E	6	346-415	Red	403.AMR6387-M 1

Supplied with stainless steel fixing screws.
MCB = Miniature circuit breaker with thermal magnetic trip unit.



AMR SYSTEM
ADVANCE-GRP[AMR] SERIES

■ AMR SOCKET OUTLETS >> SURFACE MOUNTING IP66 (125A) >> WITH SWITCH-DISCONNECTOR - AMR



Poles	h	Volt	Colour	125A	
2P+E	6	200-250		503.AMR12583	1
3P+E	6	380-415		503.AMR12586	1
3P+N+E	6	346-415		503.AMR12587	1

Blank side with drilling point marks.

IP: IP66

■ AMR SOCKET OUTLETS >> SURFACE MOUNTING IP66 (125A) >> WITH SWITCH-DISCONNECTOR AND FUSE - AMR



Poles	h	Volt	Colour	125A	
2P+E	6	200-250		503.AMR12583-F	1
3P+E	6	380-415		503.AMR12586-F	1
3P+N+E	6	346-415		503.AMR12587-F	1

Blank side with drilling point marks.
Fuses not supplied.

IP: IP66

■ AMR SOCKET OUTLETS >> SURFACE MOUNTING IP66 (125A) >> WITH MCCB - AMR



Poles	h	Volt	Colour	125A	
2P+E	6	200-250		503.AMR12583-M	1
3P+E	6	380-415		503.AMR12586-M	1
3P+N+E	6	346-415		503.AMR12587-M	1

Blank side with drilling point marks.
MCCB = Molded case circuit breaker with thermal magnetic trip unit.

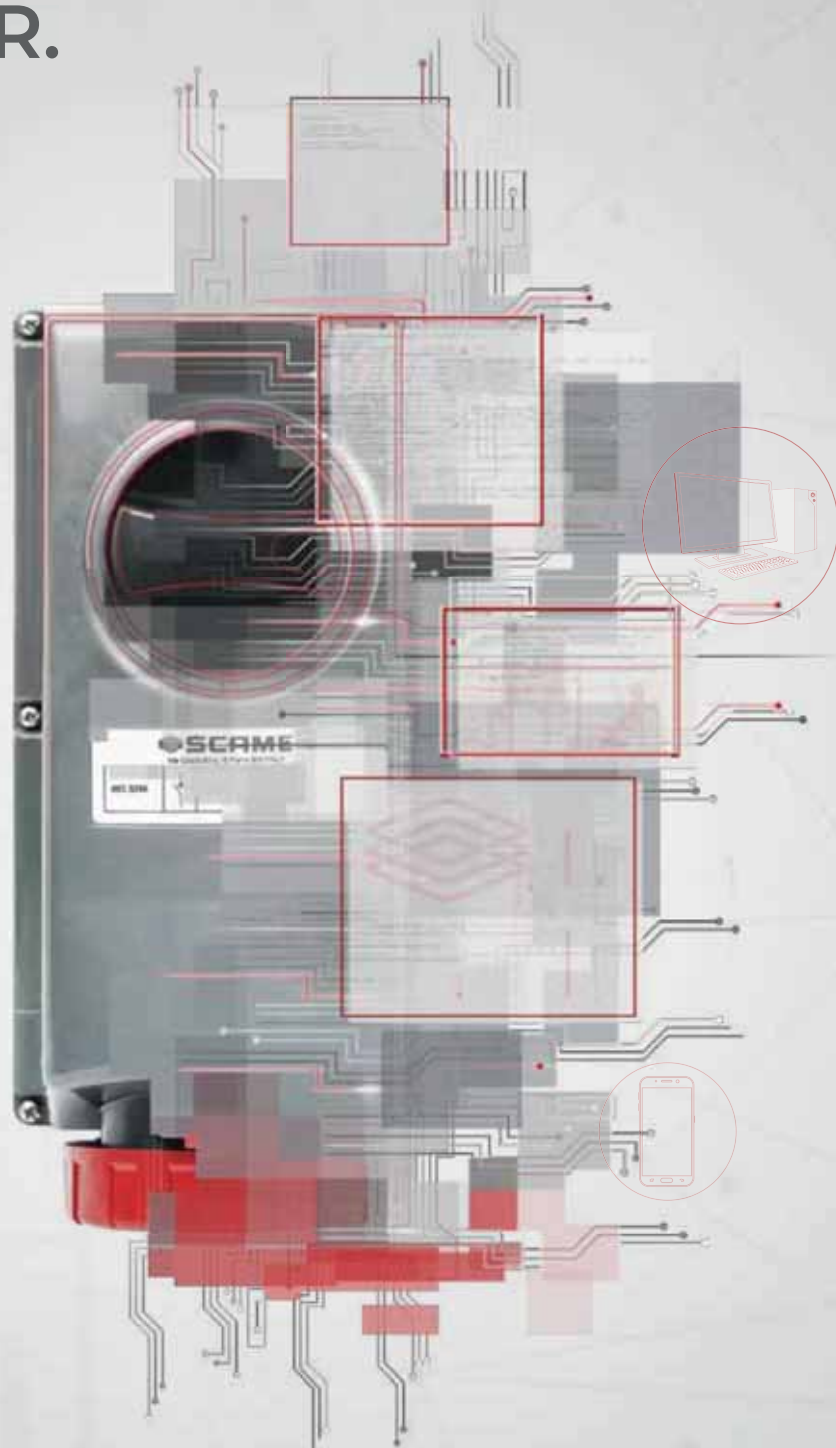
IP: IP66

■ MANAGEMENT

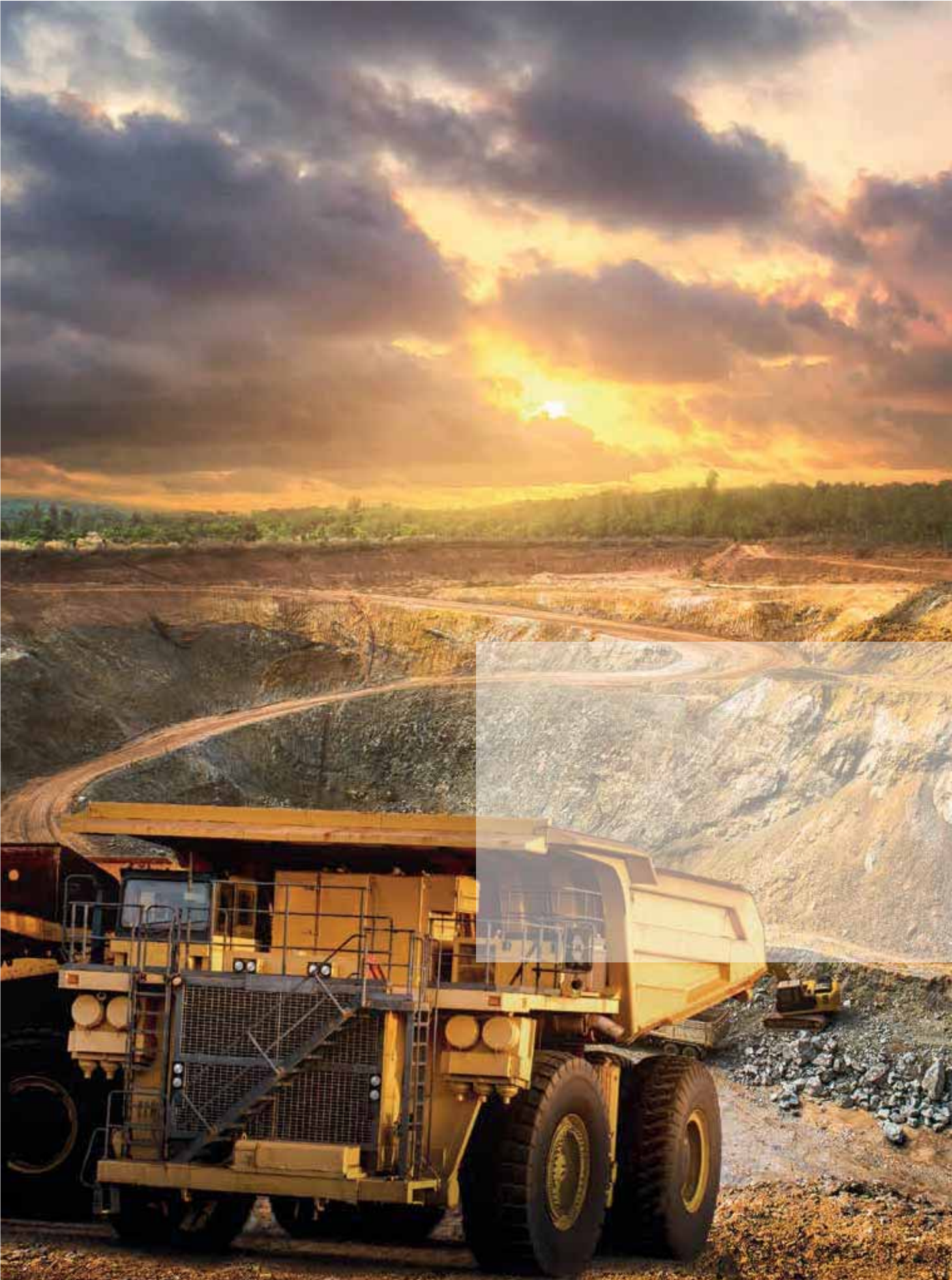


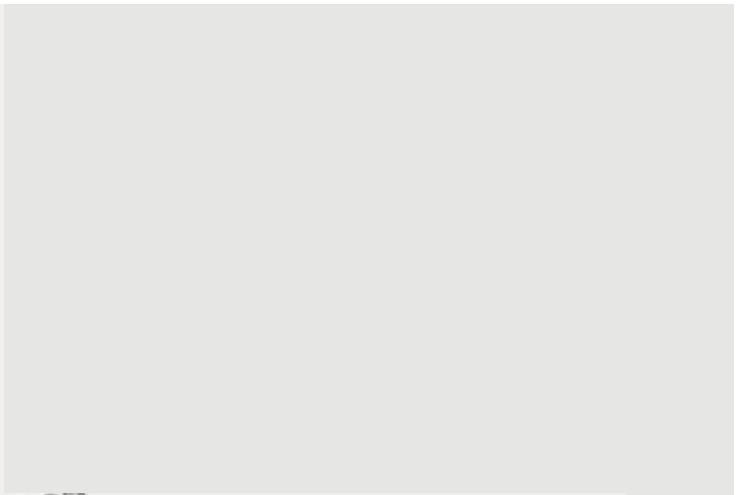
Description	Notes	Code	
MANAGEMENT SOFTWARE	BASIC PACKAGE SOFTWARE	499.AMRSW-000	

Be Smart.
Be Scame.
Be AMR.



AUTOMATED METER READING





**HIGH CURRENTS
INDUSTRIAL
PLUGS AND SOCKETS**





HIGH CURRENTS INDUSTRIAL PLUGS AND SOCKETS

OPTIMA-METAL[HDAL] SERIES

p. 274

High currents industrial plugs and sockets with lever coupling



OPTIMA-METAL[HDAS] SERIES

p. 280

High currents industrial plugs and sockets with screw ring nut coupling



OPTIMA-METAL[HDSD] SERIES

p. 286

High currents industrial plugs and sockets with load disconnection functionality



ADVANCE-METAL[HDAL] SERIES

p. 288

High currents industrial switched interlocked sockets





OPTIMA-METAL[HDAL] Series


OPTIMA-METAL[HDAL] is a range of industrial plugs and sockets from 160 to 800A with tempered die-cast aluminum body and equipped with a lever system to facilitate insertion-extraction operations while the automatic socket cover guarantees IP67 protection even when the plug is not inserted.

The contact carriers in thermosetting material offer exceptional mechanical and thermal resistance, while the silver-plated and self-cleaning contacts guarantee multi-point connections and a low insertion force, resisting temperatures up to 200°C.

Two pilot contacts with electrical interlocking function ensure that the coupling and uncoupling operations do not take place under load, while the HDAL250 and HDAL500 Type sockets are equipped with shutters that guarantee IP2X degree of protection to prevent accidental or voluntary contact with live parts.

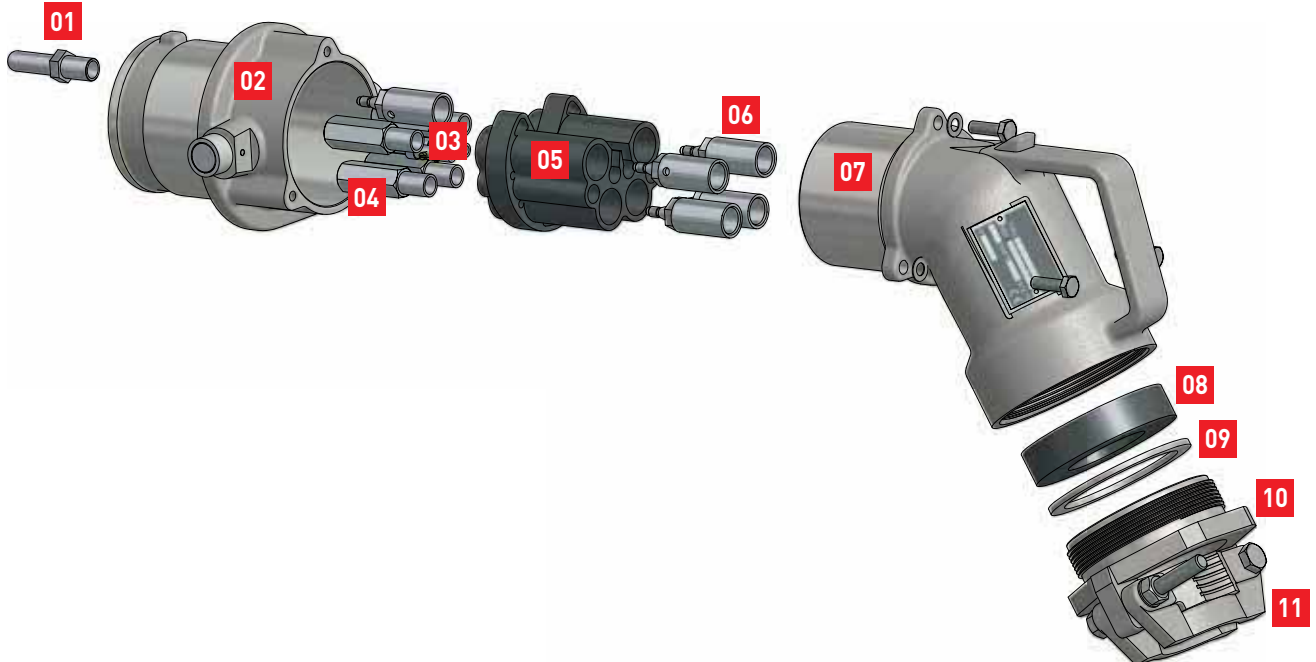
The neoprene gaskets and all the stainless steel fixing elements contribute to the exceptional qualities of strength and durability.

The OPTIMA-METAL[HDAL] plugs are compatible with the ADVANCE-METAL[HDAL] Series interlocked sockets.

 technical sheet p. 780

Technical information

Main characteristics angled plug



- 01** Earth pin
- 02** Plug casing
- 03** Auxiliary pilot pin
- 04** Female phase contact
- 05** Female contact carrier
- 06** Cable terminal to crimp or solder (back terminal)

- 07** Angled plug handle
- 08** Cable gland seal
- 09** Cable gland washer
- 10** Cable gland
- 11** Cable clamp

Compatibility

ADVANCE-METAL[HDAL] Series

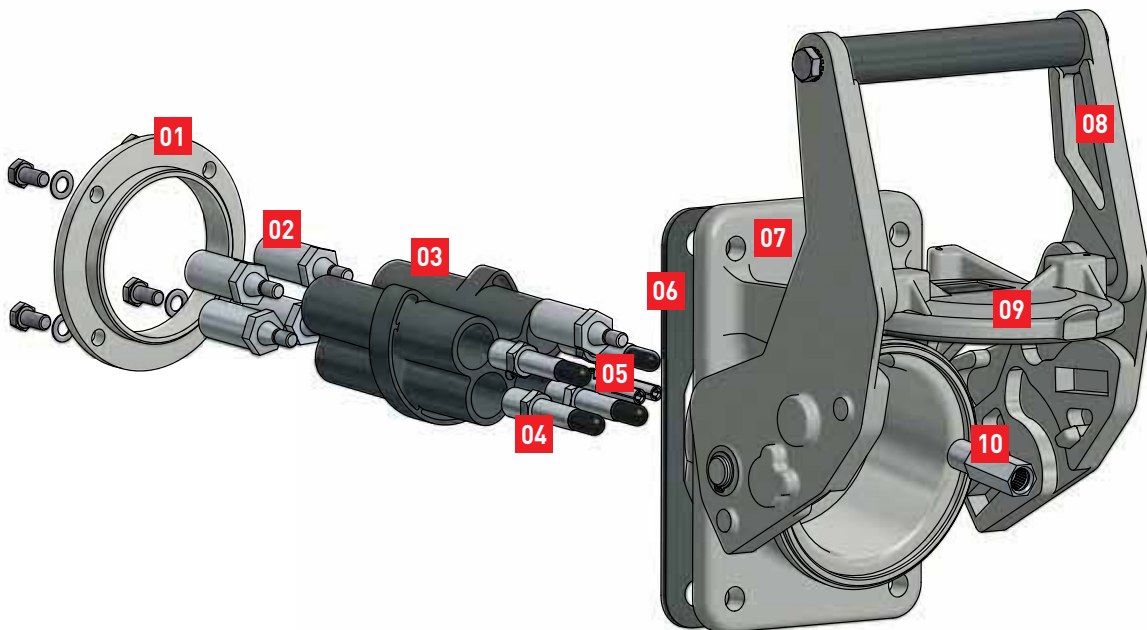


Application example



Quarry

Main characteristics socket




- | | |
|---|---|
| 01 Fixing ring | 06 Panel gasket |
| 02 Cable terminal to crimp or solder (back terminal) | 07 Socket casing |
| 03 Pin male contact carrier | 08 Insertion-withdrawal lever system |
| 04 IP2X phase malePIN | 09 Automatic socket lid |
| 05 Auxiliary pilot female contact | 10 Earth female contact |



OPTIMA-METAL[HDAL] Series

■ HDAL250 TYPE >> SOCKET




Current	Poles	Volt	Terminals	Cable section	Code	
160A	3P+E	1000	Screw terminals	16-35 mm ²	899.AL2DE335V	1
	3P+N+E	1000	Screw terminals	16-35 mm ²	899.AL2DE435V	1
250A	3P+E	1000	Screw terminals	50-70 mm ²	899.AL2DE350V	1
		1000	Crimp terminals	70 mm ²	899.AL2DE370	1
	1000	Crimp terminals	95 mm ²	899.AL2DE395	1	
	3P+N+E	1000	Screw terminals	50-70 mm ²	899.AL2DE450V	1
		1000	Crimp terminals	70 mm ²	899.AL2DE470	1

To be mated with HDAL Type.

IP: IP67

■ HDAL250 TYPE >> ANGLED PLUG 60°




Current	Poles	Volt	Terminals	Cable section	Code	
160A	3P+E	1000	Screw terminals	16-35 mm ²	899.AL2PR335V	1
	3P+N+E	1000	Screw terminals	16-35 mm ²	899.AL2PR435V	1
250A	3P+E	1000	Screw terminals	50-70 mm ²	899.AL2PR350V	1
		1000	Crimp terminals	70 mm ²	899.AL2PR370	1
	1000	Crimp terminals	95 mm ²	899.AL2PR395	1	
	3P+N+E	1000	Screw terminals	50-70 mm ²	899.AL2PR450V	1
		1000	Crimp terminals	70 mm ²	899.AL2PR470	1

To be mated with HDAL Type.

IP: IP67

■ HDAL250 TYPE >> CONNECTOR



Current	Poles	Volt	Terminals	Cable section	Code	
160A	3P+E	1000	Screw terminals	16-35 mm ²	899.AL2CE335VS	1
	3P+N+E	1000	Screw terminals	16-35 mm ²	899.AL2CE435VS	1
250A	3P+E	1000	Screw terminals	50-70 mm ²	899.AL2CE350VS	1
		1000	Crimp terminals	70 mm ²	899.AL2CE370S	1
	1000	Crimp terminals	95 mm ²	899.AL2CE395S	1	
	3P+N+E	1000	Screw terminals	50-70 mm ²	899.AL2CE450VS	1
		1000	Crimp terminals	70 mm ²	899.AL2CE470S	1

To be mated with HDAL Type.

IP: IP67

■ HDAL500 TYPE >> SOCKET



IP: IP67

Current	Poles	Volt	Terminals	Cable section	Code	
320A	3P+E	1000	Crimp terminals	95 mm ²	899.AL5DE395	1
		1000	Crimp terminals	120 mm ²	899.AL5DE412	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AL5DE415	1
		1000	Crimp terminals	95 mm ²	899.AL5DE495	1
370A	3P+E	1000	Crimp terminals	120 mm ²	899.AL5DE312	1
		1000	Crimp terminals	150 mm ²	899.AL5DE315	1
420A	3P+E	1000	Crimp terminals	185 mm ²	899.AL5DE318	1
		1000	Crimp terminals	150 mm ²	899.AL5DE415-16	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AL5DE418-16	1
500A	3P+N+E	1000	Crimp terminals	185 mm ²	899.AL5DE418-16	1
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AL5DE324-18	1

To be mated with HDAL Type.

■ HDAL500 TYPE >> ANGLED PLUG 60°



IP: IP67

Current	Poles	Volt	Terminals	Cable section	Code	
320A	3P+E	1000	Crimp terminals	95 mm ²	899.AL5PR395	1
		1000	Crimp terminals	120 mm ²	899.AL5PR412	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AL5PR415	1
		1000	Crimp terminals	95 mm ²	899.AL5PR495	1
370A	3P+E	1000	Crimp terminals	120 mm ²	899.AL5PR312	1
		1000	Crimp terminals	150 mm ²	899.AL5PR315	1
420A	3P+E	1000	Crimp terminals	185 mm ²	899.AL5PR318	1
		1000	Crimp terminals	150 mm ²	899.AL5PR415-16	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AL5PR418-16	1
500A	3P+N+E	1000	Crimp terminals	185 mm ²	899.AL5PR418-16	1
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AL5PR324-18	1

To be mated with HDAL Type.

■ HDAL500 TYPE >> STRAIGHT PLUG



IP: IP67

Current	Poles	Volt	Terminals	Cable section	Code	
320A	3P+E	1000	Crimp terminals	95 mm ²	899.AL5PR395S	1
		1000	Crimp terminals	120 mm ²	899.AL5PR412S	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AL5PR415S	1
		1000	Crimp terminals	95 mm ²	899.AL5PR495S	1
370A	3P+E	1000	Crimp terminals	120 mm ²	899.AL5PR312S	1
		1000	Crimp terminals	150 mm ²	899.AL5PR315S	1
420A	3P+E	1000	Crimp terminals	185 mm ²	899.AL5PR318S	1
		1000	Crimp terminals	150 mm ²	899.AL5PR415S-16	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AL5PR418S-16	1
500A	3P+N+E	1000	Crimp terminals	185 mm ²	899.AL5PR418S-16	1
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AL5PR324S-18	1

To be mated with HDAL Type.

■ HDAL500 TYPE >> CONNECTOR



IP: IP67

Current	Poles	Volt	Terminals	Cable section	Code	
320A	3P+E	1000	Crimp terminals	95 mm ²	899.AL5CE395S	1
		1000	Crimp terminals	120 mm ²	899.AL5CE412S	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AL5CE415S	1
		1000	Crimp terminals	95 mm ²	899.AL5CE495S	1
370A	3P+E	1000	Crimp terminals	120 mm ²	899.AL5CE312S	1
		1000	Crimp terminals	150 mm ²	899.AL5CE315S	1
420A	3P+E	1000	Crimp terminals	185 mm ²	899.AL5CE318S	1
		1000	Crimp terminals	150 mm ²	899.AL5CE415S-16	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AL5CE418S-16	1
500A	3P+N+E	1000	Crimp terminals	185 mm ²	899.AL5CE418S-16	1
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AL5CE324S-18	1


To be mated with HDAL Type.



OPTIMA-METAL[HDAL] Series

■ HDAL800 TYPE >> SOCKET




Current	Poles	Volt	Terminals	Cable section	Code	
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AL8DF324	1
	3P+N+E	1000	Crimp terminals	240 mm ²	899.AL8DF424	1
800A	3P+E	1000	Crimp terminals	300 mm ²	899.AL8DF330	1
	3P+N+E	1000	Crimp terminals	300 mm ²	899.AL8DF430	1

To be mated with HDAL Type.

IP: IP67

■ HDAL800 TYPE >> STRAIGHT PLUG




Current	Poles	Volt	Terminals	Cable section	Code	
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AL8PM324S	1
	3P+N+E	1000	Crimp terminals	240 mm ²	899.AL8PM424S	1
800A	3P+E	1000	Crimp terminals	300 mm ²	899.AL8PM330S	1
	3P+N+E	1000	Crimp terminals	300 mm ²	899.AL8PM430S	1

To be mated with HDAL Type.

IP: IP67

■ HDAL800 TYPE >> CONNECTOR




Current	Poles	Volt	Terminals	Cable section	Code	
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AL8CF324S	1
	3P+N+E	1000	Crimp terminals	240 mm ²	899.AL8CF424S	1
800A	3P+E	1000	Crimp terminals	300 mm ²	899.AL8CF330S	1
	3P+N+E	1000	Crimp terminals	300 mm ²	899.AL8CF430S	1

To be mated with HDAL Type.

IP: IP67

■ ACCESSORIES (HDAL)



Description	IP	Notes	Code	
PLUG CAP	IP67	HDAL250	899.AL2PC	1
	IP67	HDAL500	899.AL5PC	1
	IP67	HDAL800	899.AL8PC	1

To be mated with HDAL Type.





OPTIMA-METAL[HDAS] Series

OPTIMA-METAL[HDAS] is a range of industrial plugs and sockets from 250 to 800A with tempered die-cast aluminum body and screw ring nut system which guarantees couplings with IP67 protection degree.

When not coupled, the IP67 degree of protection of the sockets is guaranteed by the screw cover supplied as standard.

The inserts in thermosetting material offer exceptional mechanical and thermal resistance, while the silver-plated and self-cleaning contacts guarantee multi-point connections and a low insertion force, resisting temperatures up to 200°C.

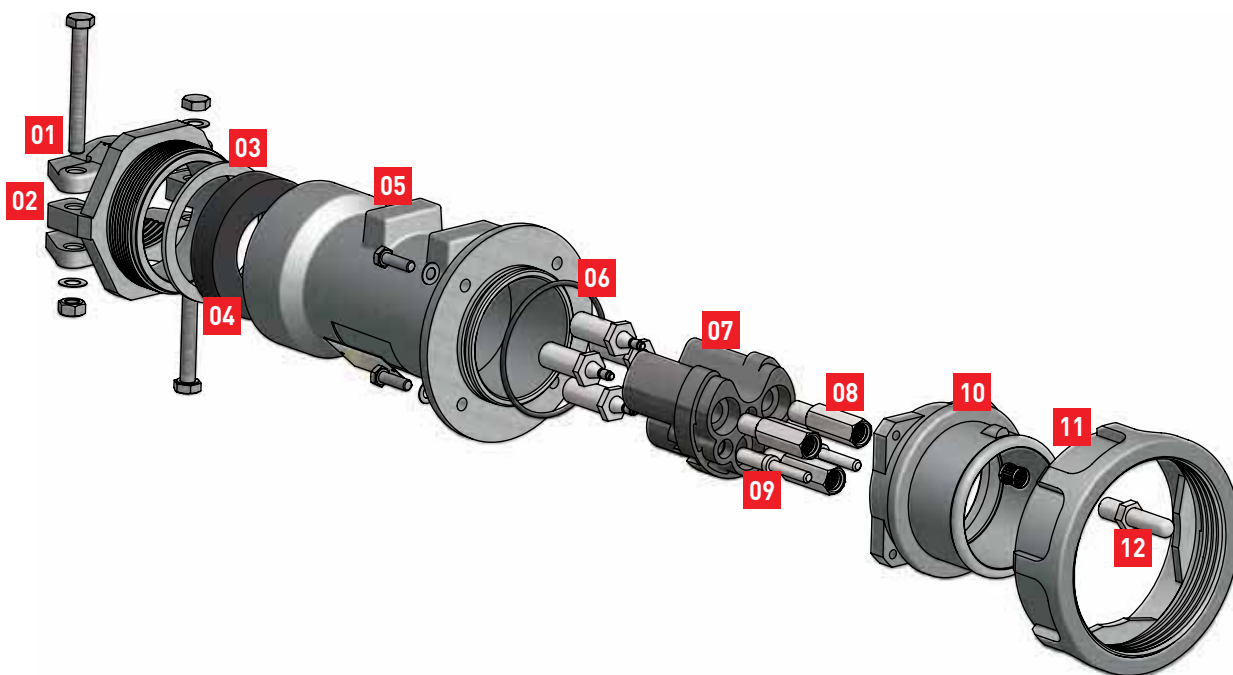
Two pilot contacts with electrical interlocking function ensure that coupling and uncoupling operations do not take place under load, while the HDAS250 and HDAS500 Type sockets are equipped with shutters that guarantee IP2X degree of protection to prevent accidental or voluntary contact with live parts.

The neoprene gaskets and all the stainless steel fixing elements contribute to the exceptional qualities of strength and durability.

 technical sheet p. 782

Technical information

Main characteristics plug



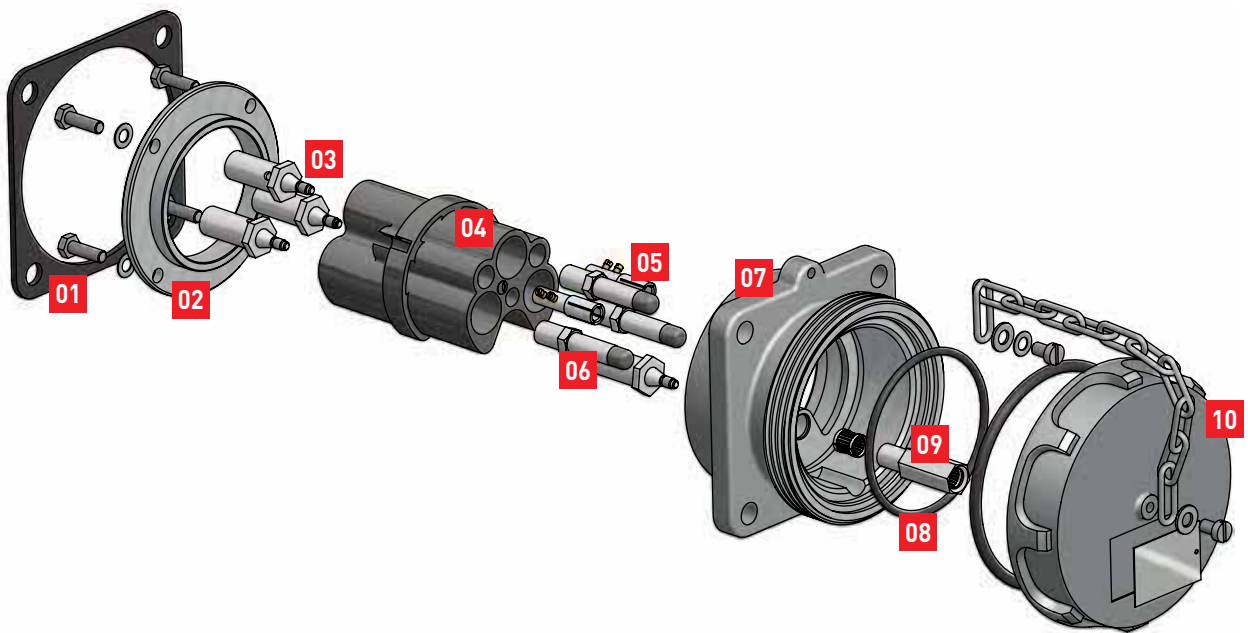
- | | |
|---|----------------------------------|
| 01 Cable gland | 07 Female contact carrier |
| 02 Cable clamp | 08 Female phase contact |
| 03 Cable gland washer | 09 Auxiliary pilot pin |
| 04 Cable gland seal | 10 Plug casing |
| 05 Straight plug handle | 11 Screw ring system |
| 06 Cable terminal to crimp or solder (back terminal) | 12 Earth pin |

Application example



Airport

Main characteristics socket



- | | |
|---|--------------------------------|
| 01 Panel gasket | 06 IP2X male phase pin |
| 02 Fixing ring | 07 Socket casing |
| 03 Cable terminal to crimp or solder | 08 Screw collar |
| 04 Male contact carrier | 09 Female Earth contact |
| 05 Female auxiliary pilot pin | 10 Screw socket cover |



■ HDAS250 TYPE >> SOCKET



Current	Poles	Volt	Terminals	Cable section	Code	
250A	3P+E	1000	Screw terminals	50-70 mm ²	899.AS2DE350V	1
		1000	Crimp terminals	70 mm ²	899.AS2DE370	1
		1000	Crimp terminals	95 mm ²	899.AS2DE395	1
	3P+N+E	1000	Screw terminals	50-70 mm ²	899.AS2DE450V	1
		1000	Crimp terminals	70 mm ²	899.AS2DE470	1

To be mated with HDAS Type.

IP: IP67

■ HDAS250 TYPE >> STRAIGHT PLUG



Current	Poles	Volt	Terminals	Cable section	Code	
250A	3P+E	1000	Screw terminals	50-70 mm ²	899.AS2PR350V	1
		1000	Crimp terminals	70 mm ²	899.AS2PR370	1
		1000	Crimp terminals	95 mm ²	899.AS2PR395	1
	3P+N+E	1000	Screw terminals	50-70 mm ²	899.AS2PR450V	1
		1000	Crimp terminals	70 mm ²	899.AS2PR470	1

To be mated with HDAS Type.

IP: IP67

■ HDAS250 TYPE >> APPLIANCE INLET



Current	Poles	Volt	Terminals	Cable section	Code	
250A	3P+E	1000	Screw terminals	50-70 mm ²	899.AS2AR350V	1
		1000	Crimp terminals	70 mm ²	899.AS2AR370	1
		1000	Crimp terminals	95 mm ²	899.AS2AR395	1
	3P+N+E	1000	Screw terminals	50-70 mm ²	899.AS2AR450V	1
		1000	Crimp terminals	70 mm ²	899.AS2AR470	1

To be mated with HDAS Type.

IP: IP67

■ HDAS250 TYPE >> CONNECTOR



Current	Poles	Volt	Terminals	Cable section	Code	
250A	3P+E	1000	Screw terminals	50-70 mm ²	899.AS2CE350V	1
		1000	Crimp terminals	70 mm ²	899.AS2CE370	1
		1000	Crimp terminals	95 mm ²	899.AS2CE395	1
	3P+N+E	1000	Screw terminals	50-70 mm ²	899.AS2CE450V	1
		1000	Crimp terminals	70 mm ²	899.AS2CE470	1

To be mated with HDAS Type.

IP: IP67

HDAS500 TYPE >> SOCKET



IP: IP67

Current	Poles	Volt	Terminals	Cable section	Code	
320A	3P+E	1000	Crimp terminals	95 mm ²	899.AS5DE395	1
		1000	Crimp terminals	120 mm ²	899.AS5DE412	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AS5DE415	1
		1000	Crimp terminals	95 mm ²	899.AS5DE495	1
370A	3P+E	1000	Crimp terminals	120 mm ²	899.AS5DE312	1
420A	3P+E	1000	Crimp terminals	150 mm ²	899.AS5DE315	1
		1000	Crimp terminals	185 mm ²	899.AS5DE318	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AS5DE415-16	1
500A	3P+N+E	1000	Crimp terminals	185 mm ²	899.AS5DE418-16	1
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AS5DE324-18	1

To be mated with HDAS Type.

HDAS500 TYPE >> STRAIGHT PLUG



IP: IP67

Current	Poles	Volt	Terminals	Cable section	Code	
320A	3P+E	1000	Crimp terminals	95 mm ²	899.AS5PR395	1
		1000	Crimp terminals	120 mm ²	899.AS5PR412	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AS5PR415	1
		1000	Crimp terminals	95 mm ²	899.AS5PR495	1
370A	3P+E	1000	Crimp terminals	120 mm ²	899.AS5PR312	1
420A	3P+E	1000	Crimp terminals	150 mm ²	899.AS5PR315	1
		1000	Crimp terminals	185 mm ²	899.AS5PR318	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AS5PR415-16	1
500A	3P+N+E	1000	Crimp terminals	185 mm ²	899.AS5PR418-16	1
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AS5PR324-18	1

To be mated with HDAS Type.

HDAS500 TYPE >> APPLIANCE INLET



IP: IP67

Current	Poles	Volt	Terminals	Cable section	Code	
320A	3P+E	1000	Crimp terminals	95 mm ²	899.AS5AR395	1
		1000	Crimp terminals	120 mm ²	899.AS5AR412	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AS5AR415	1
		1000	Crimp terminals	95 mm ²	899.AS5AR495	1
370A	3P+E	1000	Crimp terminals	120 mm ²	899.AS5AR312	1
420A	3P+E	1000	Crimp terminals	150 mm ²	899.AS5AR315	1
		1000	Crimp terminals	185 mm ²	899.AS5AR318	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AS5AR415-16	1
500A	3P+N+E	1000	Crimp terminals	185 mm ²	899.AS5AR418-16	1
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AS5AR324-18	1

To be mated with HDAS Type.

HDAS500 TYPE >> CONNECTOR



IP: IP67

Current	Poles	Volt	Terminals	Cable section	Code	
320A	3P+E	1000	Crimp terminals	95 mm ²	899.AS5CE395	1
		1000	Crimp terminals	120 mm ²	899.AS5CE412	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AS5CE415	1
		1000	Crimp terminals	95 mm ²	899.AS5CE495	1
370A	3P+E	1000	Crimp terminals	120 mm ²	899.AS5CE312	1
420A	3P+E	1000	Crimp terminals	150 mm ²	899.AS5CE315	1
		1000	Crimp terminals	185 mm ²	899.AS5CE318	1
	3P+N+E	1000	Crimp terminals	150 mm ²	899.AS5CE415-16	1
500A	3P+N+E	1000	Crimp terminals	185 mm ²	899.AS5CE418-16	1
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AS5CE324-18	1

To be mated with HDAS Type.



OPTIMA-METAL[HDAS] Series

■ HDAS800 TYPE >> SOCKET



Current	Poles	Volt	Terminals	Cable section	Code	
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AS8DF324	1
	3P+N+E	1000	Crimp terminals	240 mm ²	899.AS8DF424	1
800A	3P+E	1000	Crimp terminals	300 mm ²	899.AS8DF330	1
	3P+N+E	1000	Crimp terminals	300 mm ²	899.AS8DF430	1

To be mated with HDAS Type.

IP: IP67

■ HDAS800 TYPE >> STRAIGHT PLUG



Current	Poles	Volt	Terminals	Cable section	Code	
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AS8PM324	1
	3P+N+E	1000	Crimp terminals	240 mm ²	899.AS8PM424	1
800A	3P+E	1000	Crimp terminals	300 mm ²	899.AS8PM330	1
	3P+N+E	1000	Crimp terminals	300 mm ²	899.AS8PM430	1

To be mated with HDAS Type.

IP: IP67

■ HDAS800 TYPE >> APPLIANCE INLET



Current	Poles	Volt	Terminals	Cable section	Code	
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AS8AM324	1
	3P+N+E	1000	Crimp terminals	240 mm ²	899.AS8AM424	1
800A	3P+E	1000	Crimp terminals	300 mm ²	899.AS8AM330	1
	3P+N+E	1000	Crimp terminals	300 mm ²	899.AS8AM430	1

To be mated with HDAS Type.

IP: IP67

■ HDAS800 TYPE >> CONNECTOR




Current	Poles	Volt	Terminals	Cable section	Code	
570A	3P+E	1000	Crimp terminals	240 mm ²	899.AS8CF324	1
	3P+N+E	1000	Crimp terminals	240 mm ²	899.AS8CF424	1
800A	3P+E	1000	Crimp terminals	300 mm ²	899.AS8CF330	1
	3P+N+E	1000	Crimp terminals	300 mm ²	899.AS8CF430	1

To be mated with HDAS Type.

IP: IP67

■ ACCESSORIES (HDAS)



Description	IP	Notes	Code	
PLUG CAP	IP67	HDAS250	899.AS2PC	1
	IP67	HDAS500	899.AS5PC	1
	IP67	HDAS800	899.AS8PC	1

To be mated with HDAS Type.





OPTIMA-METAL[HDSO] Series

OPTIMA-METAL[HDSO] is a range of 250A industrial plugs and sockets with tempered die-cast aluminum body, rubber plug handle (aluminum, also angled, available as an accessory) and with IP66 protection degree.

All connectors are able to disconnect the equipment under load by means of special contacts able to make, carry and brake the current like a switch-disconnector (AC22 - derating in AC23).

The contact carriers in thermosetting material offer exceptional mechanical and thermal resistance, while the silver contacts with a brazed silver alloy tip guarantee resistance to corrosion and high breaking capacity.

The sockets are equipped with shutters that guarantee IP4X protection degree to prevent accidental or voluntary contact with live parts.

The neoprene gaskets and all the stainless steel fixing elements contribute to the exceptional qualities of strength and durability.

technical sheet p. 784

■ HDSO200 TYPE >> SOCKET



Current	Poles	h	Volt	Colour	Terminals	Code	
250A	3P+E	6	220-250		Screw terminals	899.SD2D3OE03	1
		6	380-440		Screw terminals	899.SD2D3OE01	1
		6	380-440		Screw terminals	899.SD2D3NE01	1

To be mated with HDSO Type.

IP: IP66

■ HDSO200 TYPE >> APPLIANCE INLET



Current	Poles	h	Volt	Colour	Terminals	Code	
250A	3P+E	6	220-250		Screw terminals	899.SD2A3OE03	1
		6	380-440		Screw terminals	899.SD2A3OE01	1
		6	380-440		Screw terminals	899.SD2A3NE01	1

To be mated with HDSO Type.

IP: IP66

■ HDSO200 TYPE >> PLUG



Current	Poles	h	Volt	Colour	Terminals	Code	
250A	3P+E	6	220-250		Screw terminals	899.SD2P3OE03	1
		6	380-440		Screw terminals	899.SD2P3OE01	1
		6	380-440		Screw terminals	899.SD2P3NE01	1

To be mated with HDSO Type.
Rubber handle.

IP: IP66

■ ACCESSORIES: HANDLES (HSD)



Description	IP	Code	
Rubber handle.S To be mated with HSD Type.	IP66	899.SD2G	1



Description	IP	Code	
ALUMINUM HANDLES To be mated with HSD Type.	IP66	899.SD2GM	1



Description	IP	Code	
ANGLED ALUMINUM HANDLES To be mated with HSD Type.	IP66	899.SD2GMA	1

■ ACCESSORIES: BOX AND PLUG CAP (HSD)



Description	IP	Code	
FLUSH MOUNTING BOX To be mated with HSD Type. For fixed plugs and sockets.	IP66	899.SD2LB	1



Description	IP	Code	
SURFACE MOUNTING BOX To be mated with HSD Type. For fixed plugs and sockets.	IP66	899.SD2WAS	1




Description	IP	Code	
PLUG CAP To be mated with HSD Type.	IP66	899.SD2PC	1





ADVANCE-METAL[HDAL] Series

ADVANCE-METAL[HDAL] is a range of 250A and 400A interlocked sockets available with electrical or mechanical interlock, in the latter case which can be equipped with a wide range of brakera and protection devices. The socket part has a die-cast tempered aluminum body and is equipped with a lever system to facilitate the insertion-extraction operations, while the automatic cover guarantees IP65 protection even when not in use. The contact carriers are made of thermosetting material and offer exceptional mechanical and thermal resistance while the self-cleaning silver-plated contacts guarantee multi-point connections and a low insertion force, resisting temperatures up to 200°C. The sockets are also equipped with shutters that guarantee IP2X degree of protection to prevent accidental or voluntary contact with live parts. The enclosure is made of polyester powder coated sheet metal with reinforced door. The ADVANCE-METAL[HDAL] interlocked sockets are compatible with the OPTIMA-METAL[HDAL] Series plugs.

 technical sheet p. 786

Technical information

Main characteristics HDAL250 Type



- 01** Reinforced pressed steel hinges
- 02** Mechanical locking device or electrical interlocking device with MCB or RCCB
- 03** AC23 switch with or without protection fuses
- 04** Reinforced door
- 05** Socket with lever to facilitate insertion and extraction of the plug
- 06** Removable gland plate
- 07** Metal enclosure painted with cathoporesis process

Application example



Container terminal

Compatibility

OPTIMA-METAL[HDAL] Series



ADVANCE-METAL[HDAL] Series

■ HDAL250 TYPE >> WITH SWITCH-DISCONNECTOR



Current	Poles	Volt	Terminals	Code	
250A	3P+E	690	Screw terminals	899.IN25086	1
	3P+N+E	690	Screw terminals	899.IN25087	1

To be mated with HDAL250 plugs.

IP: IP65

■ HDAL250 TYPE >> WITH SWITCH-DISCONNECTOR AND FUSE



Current	Poles	Volt	Terminals	Code	
250A	3P+E	690	Screw terminals	899.IN25086F	1
	3P+N+E	690	Screw terminals	899.IN25087F	1

To be mated with HDAL250 plugs.

IP: IP65

■ HDAL250 TYPE >> WITH MCCB



Current	Poles	Volt	Terminals	Code	
250A	3P+E	690	Screw terminals	899.IN25086M	1
	3P+N+E	690	Screw terminals	899.IN25087M	1

MCCB = Molded case circuit breaker with thermal magnetic trip unit.

To be mated with HDAL250 plugs.

IP: IP65

■ HDAL250 TYPE >> WITH MCCB & RCD



Current	Poles	Volt	Terminals	Code	
250A	3P+E	440	Screw terminals	899.IN25086RM	1
	3P+N+E	440	Screw terminals	899.IN25087RM	1

MCCB & RCD = Molded case circuit breaker with thermal magnetic and residual current release trip unit.


To be mated with HDAL250 plugs.

IP: IP65

■ HDAL400 TYPE >> WITH MCCB



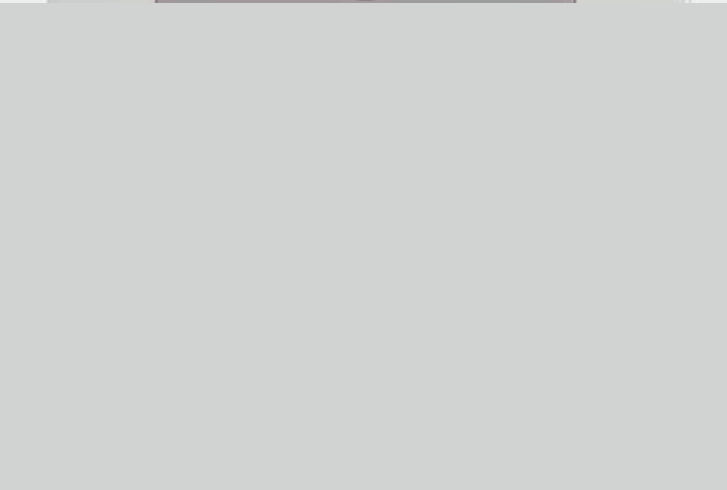
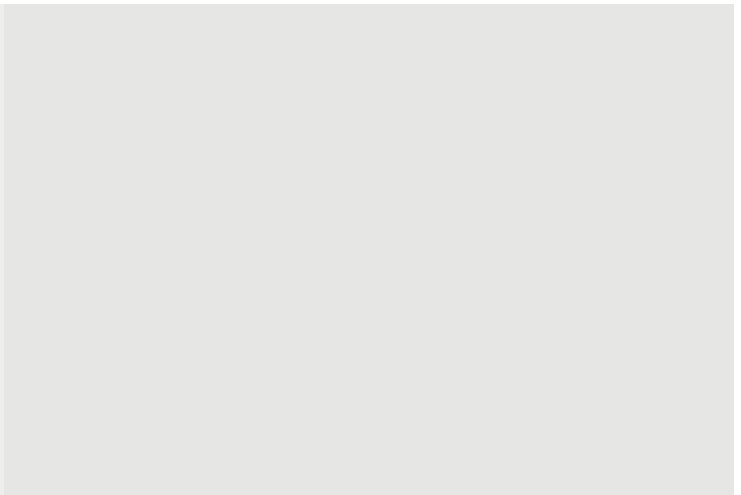
IP: IP65

Current	Poles	Volt	Terminals	Code	
400A	3P+E	440	Screw terminals	899.IN40086M	1
	3P+N+E	440	Screw terminals	899.IN40087M	1

MCCB = Molded case circuit breaker with thermal magnetic trip unit.
To be mated with HDAL500 plugs.









PANEL SWITCH-DISCONNECTORS

COMMAND SERIES

p. 296

Switch-disconnectors



COMMAND[UL] SERIES

p. 304


Unfused switch-disconnectors and change-over switches UL/CSA listed






COMMAND Series

COMMAND is a complete range of switch-disconnectors and change-over switches I-0-II for base or front panel mounting. High performance switch-disconnectors and change-over switches able to maintain their own rated current even in AC23A utilization category (Switching of motor loads or other strongly inductive loads) and with the particularity, in the 3P+N configuration, of the anticipated Neutral useful to protect against possible overvoltages due to the absence of the Neutral phase on the power supply.

 technical sheet p. 788

■ SWITCH-DISCONNECTORS >> SWITCH-DISCONNECTORS >> BASE MOUNTING - 16A-40A



Current	Poles	Switch size	Code	
16A	2P	Y1	590.YA162B ¹⁾	6
	3P	Y1	590.YA163B ¹⁾	6
	4P	Y1	590.YA164B ¹⁾	6
	3P+N	Y1	590.YA165B ¹⁾	6
	6P	Y3	590.YA166B ^{2) 3)}	1/6
20A	8P	Y3	590.YA168B ^{2) 3)}	1/6
	2P	Y1	590.YA202B ¹⁾	6
	3P	Y1	590.YA203B ¹⁾	6
	4P	Y1	590.YA204B ¹⁾	6
25A	3P+N	Y1	590.YA205B ¹⁾	6
	6P	Y3	590.YA256B ^{2) 3)}	1/6
	8P	Y3	590.YA258B ^{2) 3)}	1/6
32A	2P	Y1	590.YA322B ¹⁾	6
	3P	Y1	590.YA323B ¹⁾	6
	4P	Y1	590.YA324B ¹⁾	6
	3P+N	Y1	590.YA325B ¹⁾	6
	6P	Y3	590.YA326B ^{2) 3)}	1/6
40A	8P	Y3	590.YA328B ^{2) 3)}	1/6
	2P	Y1	590.YA402B ¹⁾	6
	3P	Y1	590.YA403B ¹⁾	6
	4P	Y1	590.YA404B ¹⁾	6
	3P+N	Y1	590.YA405B ¹⁾	6
	6P	Y3	590.YA406B ^{2) 3)}	1/6
	8P	Y3	590.YA408B ^{2) 3)}	1/6

BOX (B) = Base mounting.


¹⁾ DIN rail fixing.

²⁾ Equipped with direct handle.

³⁾ DIN rail / screw fixing.

■ SWITCH-DISCONNECTORS >> SWITCH-DISCONNECTORS >> BASE MOUNTING - 63A-160A



Current	Poles	Switch size	Code	
63A	2P	Y2	590.YA632B ¹⁾	6
	3P	Y2	590.YA633B ¹⁾	6
	3P	Y4	590.YA633B-H ^{2) 3)}	6
	4P	Y2	590.YA634B ¹⁾	6
	3P+N	Y2	590.YA635B ¹⁾	6
	3P+N	Y4	590.YA635B-H ^{2) 3)}	6
	6P	Y4	590.YA636B ^{2) 3)}	1/6
	8P	Y4	590.YA638B ^{2) 3)}	1/6
80A	2P	Y2	590.YA802B ¹⁾	6
	3P	Y2	590.YA803B ¹⁾	6
	3P	Y4	590.YA803B-H ^{2) 3)}	6
	4P	Y2	590.YA804B ¹⁾	6
	3P+N	Y2	590.YA805B ¹⁾	6
	3P+N	Y4	590.YA805B-H ^{2) 3)}	6
	6P	Y4	590.YA806B ^{2) 3)}	1/6
	8P	Y4	590.YA808B ^{2) 3)}	1/6
100A	3P	Y4	590.YA1003B ^{2) 3)}	6
	4P	Y2	590.YA1004B ¹⁾	6
	3P+N	Y4	590.YA1005B ^{2) 3)}	1/6
	6P	Y4	590.YA1006B ^{2) 3)}	1/6
125A	8P	Y4	590.YA1008B ^{2) 3)}	1/6
	3P	Y5	590.YA1253B ^{2) 3)}	1/6
	3P+N	Y5	590.YA1255B ^{2) 3)}	1/6
	6P	Y5	590.YA1256B ^{2) 3)}	1/6
160A	8P	Y5	590.YA1258B ^{2) 3)}	1/6
	3P	Y5	590.YA1603B ^{2) 3)}	1/5
	3P+N	Y5	590.YA1605B ^{2) 3)}	1/5
	6P	Y5	590.YA1606B ^{2) 3)}	1/6
	8P	Y5	590.YA1608B ^{2) 3)}	1/6

BOX (B) = Base mounting.

¹⁾ DIN rail fixing.

²⁾ Equipped with direct handle.

³⁾ DIN rail / screw fixing.



■ SWITCH-DISCONNECTORS >> SWITCH-DISCONNECTORS >> PANEL MOUNTING - 16A-100A



Current	Poles	Switch size	Code	
16A	2P	Y1	590.YA162R	6
	3P	Y1	590.YA163R	6
	4P	Y1	590.YA164R	6
32A	3P+N	Y1	590.YA165R	6
	2P	Y1	590.YA322R	6
	3P	Y1	590.YA323R	6
40A	4P	Y1	590.YA324R	6
	3P+N	Y1	590.YA325R	6
	2P	Y1	590.YA402R	6
63A	3P	Y1	590.YA403R	6
	4P	Y1	590.YA404R	6
	3P+N	Y1	590.YA405R	6
80A	2P	Y2	590.YA632R	6
	3P	Y2	590.YA633R	6
	4P	Y2	590.YA634R	6
100A	3P+N	Y2	590.YA635R	6
	2P	Y2	590.YA802R	6
	3P	Y2	590.YA803R	6
	4P	Y2	590.YA804R	6
	3P+N	Y2	590.YA805R	6
	3P	Y2	590.YA1003R	6
	4P	Y2	590.YA1004R	6
	3P+N	Y2	590.YA1005R	6

REAR (R) = Panel mounting.

■ SWITCH-DISCONNECTORS >> SWITCH DISCONNECTORS - DC - DIRECT CURRENT



Current	Poles in series	Switch size	Code	
15A	4	D3	590.DC0815 ^{2) 3)}	1/6
16A	4	D1	590.DC0416 ¹⁾	1/6
20A	5	D3	590.DC0820 ^{2) 3)}	1/6
25A	6	D3	590.DC0825 ^{2) 3)}	1/6
30A	8	D3	590.DC0830 ^{2) 3)}	1/6
40A	8	D5	590.DC0840 ^{2) 3)}	1/6

BOX (B) = Base mounting.
Links already wired.

¹⁾ DIN rail fixing.

²⁾ Equipped with direct handle.

³⁾ DIN rail / screw fixing.

■ SWITCH-DISCONNECTORS >> FUSED SWITCH-DISCONNECTORS >> BASE MOUNTING - WITH FUSE CARRIER - TYPE GG



Current	Poles	Switch size	Fuse type	Code	
16A	2P	F1	gG 10,3x38mm	590.YF162B	1/6
	3P	F1	gG 10,3x38mm	590.YF163B	1/6
	4P	F1	gG 10,3x38mm	590.YF164B	1/6
	3P+N	F1	gG 10,3x38mm	590.YF165B	1/6
32A	2P	F1	gG 10,3x38mm	590.YF322B	1/6
	3P	F1	gG 10,3x38mm	590.YF323B	1/6
	4P	F1	gG 10,3x38mm	590.YF324B	1/6
	3P+N	F1	gG 10,3x38mm	590.YF325B	1/6

Fuses not supplied.

BOX (B) = Base mounting.

DIN rail fixing.

■ SWITCH-DISCONNECTORS >> ACCESSORIES >> FRONT OPERATOR HANDLES 48X48MM



PANEL SWITCH-DISCONNECTORS
COMMAND SERIES



Description	Colour	Switch size	Diameter	Dimensions	IP	B		R	
FRONT OPERATOR		F1 Y1 D1	standard	48x48mm	IP65	590.YM48B1 ²⁾	10	590.YM48R1 ¹⁾	10
		F1 Y1 D1	ø22mm	48x48mm	IP65	590.YM50B1 ²⁾	10	590.YM50R1 ¹⁾	10
		F1 Y1 D1	standard	48x48mm	IP65	590.YM48B2 ²⁾	10	590.YM48R2 ¹⁾	10
		F1 Y1 D1	ø22mm	48x48mm	IP65	590.YM50B2 ²⁾	10	590.YM50R2 ¹⁾	10

Shaft not included (to buy separately).
For general use and emergency switches.
Handle not padlockable.

¹⁾For panel mounting version (R).
²⁾For base mounting version with door interlock (B).

■ SWITCH-DISCONNECTORS >> ACCESSORIES >> FRONT OPERATOR HANDLES 48X48MM - PADLOCKABLE



Description	Notes	Colour	Switch size	Diameter	Dimensions	IP	B		R	
FRONT OPERATOR PADLOCKABLE	TYPE 1, 4, 4X		F1 Y1 D1	standard	48x48mm	IP65	590.YM49B1 ²⁾	10	590.YM49R1 ¹⁾	10
	TYPE 1, 4, 4X		F1 Y1 D1	ø22mm	48x48mm	IP65	590.YM51B1 ²⁾	10	590.YM51R1 ¹⁾	10
	TYPE 1, 4, 4X		F1 Y1 D1	standard	48x48mm	IP65	590.YM49B2 ²⁾	10	590.YM49R2 ¹⁾	10
	TYPE 1, 4, 4X		F1 Y1 D1	ø22mm	48x48mm	IP65	590.YM51B2 ²⁾	10	590.YM51R2 ¹⁾	10

Shaft not included (to buy separately).
For general use and emergency switches.
Handle padlockable in OFF position only (3 padlocks).

¹⁾For panel mounting version (R).
²⁾For base mounting version with door interlock (B).

SWITCH-DISCONNECTORS >> ACCESSORIES >> FRONT OPERATOR HANDLES 67X67MM



Description	Notes	Colour	Switch size	Diameter	Dimensions	IP	B		R	
FRONT OPERATOR PADLOCKABLE	TYPE 1, 4, 4X		F1 Y1 D1	standard	67x67mm	IP65	590.YM67B1 ²⁾	10	590.YM67R1 ¹⁾	10
	TYPE 1, 4, 4X		F1 Y1 D1	ø22mm	67x67mm	IP65	590.YM68B1 ²⁾	10	590.YM68R1 ¹⁾	10
	TYPE 1, 4, 4X		Y2	standard	67x67mm	IP65	590.YM67B6 ²⁾	10	590.YM67R6 ¹⁾	10
	TYPE 1, 4, 4X		Y2	ø22mm	67x67mm	IP65	590.YM68B6 ²⁾	10		
	TYPE 1, 4, 4X		F1 Y1 D1	standard	67x67mm	IP65	590.YM67B2 ²⁾	10	590.YM67R2 ¹⁾	10
	TYPE 1, 4, 4X		F1 Y1 D1	ø22mm	67x67mm	IP65	590.YM68B2 ²⁾	10	590.YM68R2 ¹⁾	10
	TYPE 1, 4, 4X		Y2	standard	67x67mm	IP65	590.YM67B7 ²⁾	10	590.YM67R7 ¹⁾	10
	TYPE 1, 4, 4X		Y2	ø22mm	67x67mm	IP65	590.YM68B7 ²⁾	10		

Shaft not included (to buy separately).

For general use and emergency switches.

Handle padlockable in OFF position only (3 padlocks).

¹⁾ For panel mounting version (R).

²⁾ For base mounting version with door interlock (B).

SWITCH-DISCONNECTORS >> ACCESSORIES >> FRONT OPERATOR HANDLES Ø40MM



Description	Notes	Colour	Switch size	Diameter	Dimensions	IP	Code	
FRONT OPERATOR PADLOCKABLE	16A-40A		Y1	ø22mm	ø40mm	IP65	590.YM40B2	1/10
FRONT OPERATOR PADLOCKABLE	16A-40A		Y1	ø22mm	ø40mm	IP65	590.YM40B1	1/10

Shaft not included (to buy separately).

For base mounting version with door interlock (B).

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

SWITCH-DISCONNECTORS >> ACCESSORIES >> FRONT OPERATOR HANDLES Y2



Description	Notes	Colour	Switch size	IP	Code	
FRONT OPERATOR PADLOCKABLE	63A-80A		Y2	IP65	590.YM90B2	1/10
FRONT OPERATOR PADLOCKABLE	63A-80A		Y2	IP65	590.YM90B1	1/10

Shaft not included (to buy separately).

For base mounting version with door interlock (B).

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

SWITCH-DISCONNECTORS >> ACCESSORIES >> FRONT OPERATOR HANDLES Ø80MM



Description	Notes	Colour	Switch size	Diameter	Dimensions	IP	Code	
FRONT OPERATOR PADLOCKABLE	16A-160A		Y3 Y4 Y5 D3 D5	ø22mm	ø80mm	IP65	590.YM80B1	1/5
	16A-160A		Y3 Y4 Y5 D3 D5	ø22mm	ø80mm	IP65	590.YM80B2	1/5

Shaft not included (to buy separately).
For base mounting version with door interlock (B).
Handle padlockable in OFF position only (3 padlocks).

SWITCH-DISCONNECTORS >> ACCESSORIES >> FRONT OPERATOR HANDLES 70X87MM



Description	Colour	Switch size	Dimensions	Code	
FRONT OPERATOR		Y1 D1	70x87mm	590.YM70R1	10
		Y2	70x87mm	590.YM70R6	10
		Y1 D1	70x87mm	590.YM70R2	10
		Y2	70x87mm	590.YM70R7	10

For general use and emergency switches.
For panel mounting version (R).
Handle padlockable in OFF position only (3 padlocks).
They can only be applied to SCAME enclosure system 32A (84X106mm) socket cut out.
Shaft included.

SWITCH-DISCONNECTORS >> ACCESSORIES >> DIRECT HANDLE



Description	Colour	Switch size	IP	Code	
DIRECT HANDLE		F1 Y1 D1	IP65	590.YMC1	10
		Y2	IP65	590.YMC2	10

Shaft included.
For base mounting version (B).

SWITCH-DISCONNECTORS >> ACCESSORIES >> DIRECT HANDLE KIT FOR DIN RAIL WINDOW



Description	Switch size	Code	
WINDOW FOR DIN RAIL	Y1 D1	590.YMDIN	10

Shaft included.
For base mounting version (B).

SWITCH-DISCONNECTORS >> ACCESSORIES >> SHAFT FOR FRONT OPERATOR HANDLES



Description	Notes	Switch size	Notes	Dimensions	Code	
SHAFT		F1 Y1 D1	[5x5mm]	185mm	590.YMA185	10/100
		F1 Y1 D1	[5x5mm]	300mm	590.YMA300	10
		F1 Y1 D1	[5x5mm]	70mm	590.YMA070	10/100
		F1 Y1 D1	[5x5mm]	85mm	590.YMA085	10/100
		Y2	[6x6mm]	185mm	590.YMB185	10/100
		Y2	[6x6mm]	300mm	590.YMB300	10
		Y2	[6x6mm]	85mm	590.YMB085	10/100
	STEEL - CAP	Y3 Y4 Y5 C1 C2 C3 D3 D5		100mm	590.YMA101	10/100
	STEEL - CAP	Y3 Y4 Y5 C1 C2 C3 D3 D5		200mm	590.YMA201	10/100
	STEEL - CAP	Y3 Y4 Y5 C1 C2 C3 D3 D5		300mm	590.YMA301	10/100

For base mounting version (B).
To buy along with front operator handle.

SWITCH-DISCONNECTORS >> ACCESSORIES >> SHAFT-HUB



Description	Switch size	Code	
SHAFT-HUB REINFORCING RING	Y3 Y4 Y5 C1 C2 C3 D3 D5	590.YMZZ	10/50

For base mounting version (B).
To buy along with front operator handle.
Assembled instead of the handle, it reduces the switch height by 5mm.

SWITCH-DISCONNECTORS >> ACCESSORIES >> SINGLE JUNCTION BOX



Description	Colour	Notes	Dimensions	IP	Code	
ENCLOSURE FOR SWITCH		ADVANCE2	136x150x105mm	IP66	576.4390	6
		OMNIA	136x125x85mm	IP67	572.3390 ¹⁾	6

Blank side with drilling point marks.
For fitting with Y1 switch size panel mounting version (R) and relevant front operators handles (IP65).

¹⁾ IP67 when assembled together with the relevant component.

SWITCH-DISCONNECTORS >> ACCESSORIES >> CONTACT BLOCKS



Description	Colour	Switch size	Notes	Code	
NC CONTACT		F1 Y1 D1		590.PL004001 ^{1) 2)}	10/60
		Y2		590.PL004003 ^{1) 2)}	10
NO CONTACT		F1 Y1 D1		590.PL004002 ^{1) 3)}	10/60
		Y2		590.PL004004 ^{1) 3)}	10
CHANGE OVER CONTACT		F1 Y3 Y4 Y5 C1 C2 C3 D3 D5	15A 250V~ - 10A 415V~	590.PL005 ⁴⁾	50
		Y1	15A 250V~ - 10A 415V~	590.PL004005 ⁴⁾	10
		Y2	15A 250V~ - 10A 415V~	590.PL004006 ⁴⁾	10

¹⁾ Snap catch.

²⁾ NC=Normally closed.

³⁾ NO=Normally open.

⁴⁾ Break before main contacts.

CHANGE-OVER SWITCHES >> MANUAL - BASE MOUNTING



Current	Poles	Switch size	Code	
16A	3P	C1	590.YA163B-C	1/6
	3P+N	C1	590.YA165B-C	1/6
25A	3P	C1	590.YA253B-C	1/6
	3P+N	C1	590.YA255B-C	1/6
32A	3P	C1	590.YA323B-C	1/6
	3P+N	C1	590.YA325B-C	1/6
40A	3P	C1	590.YA403B-C	1/6
	3P+N	C1	590.YA405B-C	1/6
63A	3P	C2	590.YA633B-C	1/6
	3P+N	C2	590.YA635B-C	1/6
80A	3P	C2	590.YA803B-C	1/6
	3P+N	C2	590.YA805B-C	1/6
100A	3P	C2	590.YA1003B-C	1/6
	3P+N	C2	590.YA1005B-C	1/6
125A	3P	C3	590.YA1253B-C	1/6
	3P+N	C3	590.YA1255B-C	1/6
160A	3P	C3	590.YA1603B-C	1/6
	3P+N	C3	590.YA1605B-C	1/6

BOX (B) = Base mounting.
Equipped with direct handle.
Handle padlockable in OFF position (1 padlock).

CHANGE-OVER SWITCHES >> ACCESSORIES >> FRONT OPERATOR HANDLES Ø80MM



Description	Notes	Colour	Switch size	Diameter	Dimensions	IP	Code	
FRONT OPERATOR PADLOCKABLE	CHANGE OVER SWITCHES (16A-160A)		C1 C2 C3	ø22mm	ø80mm	IP65	590.YM80B2-C	1/10

Shaft not included (to buy separately).
For base mounting version with door interlock (B).
Handle padlockable in OFF position only (3 padlocks).

CHANGE-OVER SWITCHES >> ACCESSORIES >> SHAFT FOR FRONT OPERATOR HANDLES



Description	Notes	Switch size	Dimensions	Code	
SHAFT	STEEL - CAP	Y3 Y4 Y5 C1 C2 C3 D3 D5	100mm	590.YMA101	10/100
	STEEL - CAP	Y3 Y4 Y5 C1 C2 C3 D3 D5	200mm	590.YMA201	10/100
	STEEL - CAP	Y3 Y4 Y5 C1 C2 C3 D3 D5	300mm	590.YMA301	10/100

For base mounting version (B).
To buy along with front operator handle.

CHANGE-OVER SWITCHES >> ACCESSORIES >> CONTACT BLOCKS



Description	Switch size	Notes	Code	
CHANGE OVER CONTACT	F1 Y3 Y4 Y5 C1 C2 C3 D3 D5	15A 250V~ - 10A 415V~	590.PL005	50

Break before main contacts.




COMMAND[UL] Series

COMMAND[UL] is a complete range of switch-disconnectors and change-over switches, for base or front panel mounting, UL/CSA listed for the North American market and countries where the UL standard is recognized. High performance switch-disconnectors and change-over switches able to maintain their own rated current even in AC23A utilization category (Switching of motor loads or other strongly inductive loads) and with the particularity, in the 3P+N configuration, of the anticipated Neutral useful to protect against possible overvoltages due to the absence of the Neutral phase on the power supply

■ SWITCH-DISCONNECTORS UL/CSA LISTED >> BASE MOUNTING - Y3



Current	Poles	Switch size	Code	
16A	3P	Y3	590.YU10163	1/50
	3P	Y3	590.YU10163E	
	4P	Y3	590.YU10164	
	4P	Y3	590.YU10164E	
25A	6P	Y3	590.YU10166	1/50
	3P	Y3	590.YU10253	1/50
	3P	Y3	590.YU10253E	
	4P	Y3	590.YU10254	
32A	4P	Y3	590.YU10254E	
	6P	Y3	590.YU10256	1/50
	3P	Y3	590.YU10323	1/50
	3P	Y3	590.YU10323E	
40A	4P	Y3	590.YU10324	
	4P	Y3	590.YU10324E	
	6P	Y3	590.YU10326	1/50
40A	3P	Y3	590.YU10403	1/50
	3P	Y3	590.YU10403E	
	4P	Y3	590.YU10404	
	4P	Y3	590.YU10404E	
	6P	Y3	590.YU10406	1/50

Equipped with direct handle.
DIN rail / screw fixing.

■ SWITCH-DISCONNECTORS UL/CSA LISTED >> BASE MOUNTING - Y4



Current	Poles	Switch size	Code	
63A	3P	Y4	590.YU20633	1/50
	3P	Y4	590.YU20633E	
	4P	Y4	590.YU20634	
	4P	Y4	590.YU20634E	
80A	6P	Y4	590.YU20636	1/20
	3P	Y4	590.YU20803	
	3P	Y4	590.YU20803E	
	4P	Y4	590.YU20804	
100A	4P	Y4	590.YU20804E	1/20
	6P	Y4	590.YU20806	
	3P	Y4	590.YU201003	
	3P	Y4	590.YU201003E	
125A	4P	Y4	590.YU201004	1/50
	4P	Y4	590.YU201004E	
	6P	Y4	590.YU201006	
	3P	Y4	590.YU201253	
125A	3P	Y4	590.YU201253E	1/50
	4P	Y4	590.YU201254	
	4P	Y4	590.YU201254E	
	6P	Y4	590.YU201256	
			590.YU201256	1/20

Equipped with direct handle.
DIN rail / screw fixing.

■ SWITCH-DISCONNECTORS UL/CSA LISTED >> BASE MOUNTING - Y5



Current	Poles	Switch size	Code	
100A	3P	Y5	590.YU301003	1/50
	3P	Y5	590.YU301003E	
	3P	Y5	590.YU301003	
	4P	Y5	590.YU301004	
	4P	Y5	590.YU301004E	
	6P	Y5	590.YU301006	
125A	3P	Y5	590.YU301253	1/20
	3P	Y5	590.YU301253E	
	3P	Y5	590.YU301253	
	4P	Y5	590.YU301254	
	4P	Y5	590.YU301254E	
	6P	Y5	590.YU301256	
160A	3P	Y5	590.YU301603	1/50
	3P	Y5	590.YU301603E	
	3P	Y5	590.YU301603	
	4P	Y5	590.YU301604	
	4P	Y5	590.YU301604E	
	6P	SD3	590.YU301606	
			590.YU301606	1/20

Equipped with direct handle.
DIN rail / screw fixing.



■ SWITCH-DISCONNECTORS UL/CSA LISTED >> ACCESSORIES



Description	Poles	Switch size	Code	
SWITCH DISCONNECTOR	NEUTRAL TERMINAL POLE	Y3	590.YU1040N	1/20
	NEUTRAL TERMINAL POLE	Y4	590.YU2125N	1/20
	NEUTRAL TERMINAL POLE	Y5	590.YU3160N	1/20
	EARTH TERMINAL POLE	Y3	590.YU1040E	1/20
	EARTH TERMINAL POLE	Y4	590.YU2125E	1/20
	EARTH TERMINAL POLE	Y5	590.YU3160E	1/20
	4TH POLE	Y3	590.YU10401	1/100
	4TH POLE	Y4	590.YU21251	1/50
	4TH POLE	Y5	590.YU31601	1/20

■ CHANGE-OVER SWITCHES UL/CSA LISTED >> BASE MOUNTING



Current	Poles	Switch size	Code	
16A	3P	Y3	590.YU10163-C	1/20
25A	3P	Y3	590.YU10253-C	1/20
32A	3P	Y3	590.YU10323-C	1/100
40A	3P	Y3	590.YU10403-C	1/100
63A	3P	Y4	590.YU20633-C	1/20
80A	3P	Y4	590.YU20803-C	1/20
100A	3P	Y4	590.YU201003-C	1/50
	3P	Y5	590.YU31003-C	1/20
125A	3P	Y4	590.YU201253-C	1/50
	3P	Y5	590.YU31253-C	1/20
160A	3P	Y5	590.YU31603-C	1/20

Equipped with direct handle.
DIN rail / screw fixing.

■ ACCESSORIES >> FRONT OPERATOR HANDLES - GE



Description	Notes	Colour	Code	
FRONT OPERATOR	PISTOL HANDLE		590.YMU32G	1/50
	ROUND HANDLE		590.YMU12G	1/50

■ ACCESSORIES >> FRONT OPERATOR HANDLES - EM



Description	Notes	Colour	Code	
FRONT OPERATOR	PISTOL HANDLE		590.YMU32E	1/50
	ROUND HANDLE		590.YMU12E	1/50

■ ACCESSORIES >> FRONT OPERATOR HANDLES - CHANGE-OVER SWITCHES



Description	Notes	Colour	Code	
FRONT OPERATOR	ROUND HANDLE	■	590.YMU12G-C	1/50
	ROUND HANDLE	■	590.YMU22G-C	1/50

■ ACCESSORIES >> SHAFT FOR FRONT OPERATOR HANDLES



Description	Notes	Switch size	Dimensions	Code	
SHAFT	STEEL - CAP	Y3 Y4 Y5 C1 C2 C3 D3 D5	100mm	590.YMA101	10/100
	STEEL - CAP	Y3 Y4 Y5 C1 C2 C3 D3 D5	200mm	590.YMA201	10/100
	STEEL - CAP	Y3 Y4 Y5 C1 C2 C3 D3 D5	300mm	590.YMA301	10/100

For base mounting version (B).
To buy along with front operator handle.

■ ACCESSORIES >> TERMINAL PROTECTION COVER



Description	Poles	Switch size	Code	
PROTECTION COVER	3P	Y3	590.KMTU13	1/50
		Y4	590.KMTU23	1/50
		Y5	590.KMTU33	1/50
	4TH POLE	Y3	590.KMTU11	1/50
		Y4	590.KMTU21	1/50
		Y5	590.KMTU31	1/50

■ ACCESSORIES >> CONTACT BLOCKS



Description	Notes	Code	
AUXILIARY CONTACT 1NO+1NC	FASTON TERMINALS	590.PU006	1/50
	SCREW TERMINALS	590.PU005	1/50



ISOLATORS-TP SERIES

p. 310

Enclosed switch-disconnectors in thermoplastic enclosure



ISOLATORS-HD SERIES

p. 320

Enclosed switch-disconnectors in heavy duty thermoplastic enclosure



SWITCH-DISCONNECTORS

ISOLATORS-AL SERIES

p. 322

Enclosed switch-disconnectors in die-cast aluminium enclosure



ISOLATORS-INOX SERIES

p. 330

Enclosed switch-disconnectors in stainless steel enclosure



Applications: Food Industry | Chemical Industry | Pharma Industry

ISOLATORS-HR SERIES

p. 334

Enclosed switch-disconnectors in metal enclosure with hinged door



ISOLATORS-FR SERIES

p. 338

Fire Rated enclosed switch-disconnectors



ISOLATORS-PH SERIES

p. 348

Enclosed switch-disconnectors in Direct Current for photovoltaic application



ACCESSORIES

p. 349

Installation accessories






ISOLATORS-TP Series

ISOLATORS-TP is a complete range of switch-disconnectors with highly resistant thermoplastic enclosure and is suitable for most industrial and tertiary applications, thanks to the high degree of protection IP66/IP69 which allows it to be installed even in the presence of water jets high pressure and high temperature.

The high-visibility, fully recessed knob of extra large dimensions ensures an always optimal grip and prevents damage caused by any accidental impacts.

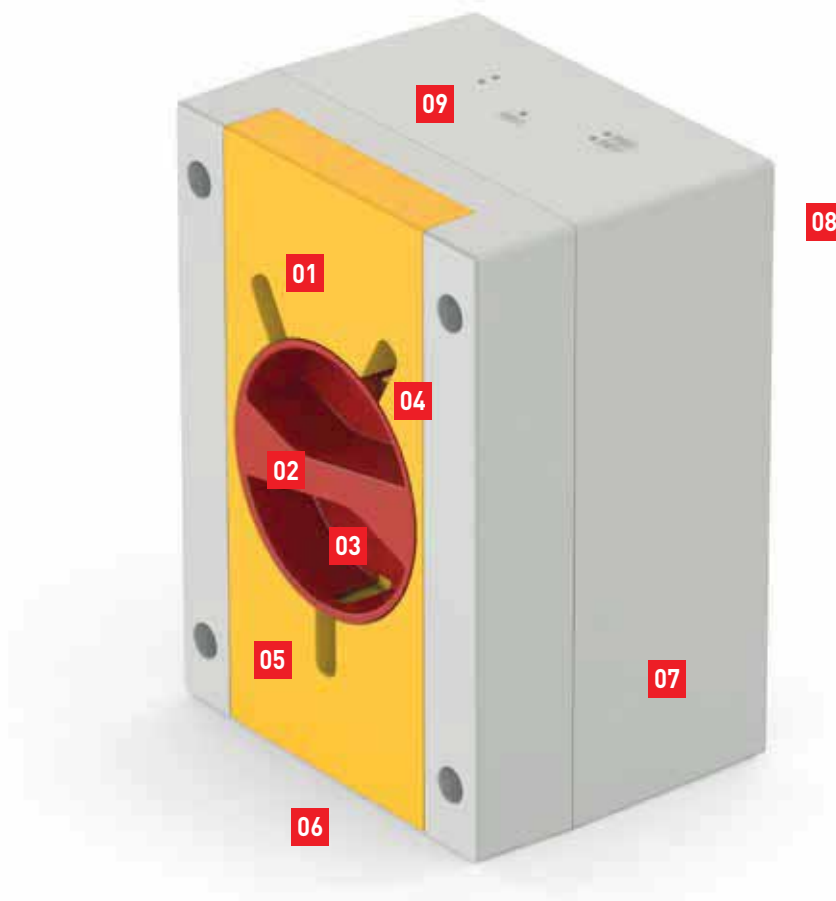
The base is reversible with threaded inlets or drilling centers.

The large internal wiring space and the external fixing points ensure easy and error-proof installation.

 technical sheet p. 830

Technical information

Main characteristics



- 01** Door locking with handle in the ON position
- 02** Recessed XXL handle to prevent breakage due to accidental impacts
- 03** AC23 switch with the possibility of double auxiliary contact
- 04** Handle padlockable in the OFF (emergency use) and ON and OFF (general use) position

- 05** High visibility handle and plate
- 06** Knockout cable entries
- 07** Reversible base
- 08** External and integrated fixing points
- 09** Blank side with drilling point marks

Guilty of
innovation.

ISOLATORS-TP



SWITCHGEARS

Switch-disconnectors

■ 16A÷40A OMNIA ENCLOSURE >> FOR GENERAL USE - FLUSH MOUNTING



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	2P	Y1	IP65	136x125mm		590.GR2002	1/12
	3P	Y1	IP65	136x125mm		590.GR2003	1/12
	4P	Y1	IP65	136x125mm		590.GR2004	1/12
	3P+N	Y1	IP65	136x125mm		590.GR2005	1/12
32A	2P	Y1	IP65	136x125mm		590.GR3202	1/12
	3P	Y1	IP65	136x125mm		590.GR3203	1/12
	4P	Y1	IP65	136x125mm		590.GR3204	1/12
	3P+N	Y1	IP65	136x125mm		590.GR3205	1/12
40A	2P	Y1	IP65	136x125mm		590.GR4002	1/12
	3P	Y1	IP65	136x125mm		590.GR4003	1/12
	4P	Y1	IP65	136x125mm		590.GR4004	1/12
	3P+N	Y1	IP65	136x125mm		590.GR4005	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
With panel mounting version (R) switch.

■ 16A÷40A OMNIA ENCLOSURE >> FOR EMERGENCY USE - FLUSH MOUNTING



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	2P	Y1	IP65	136x125mm		590.ER2002	1/12
	3P	Y1	IP65	136x125mm		590.ER2003	1/12
	4P	Y1	IP65	136x125mm		590.ER2004	1/12
	3P+N	Y1	IP65	136x125mm		590.ER2005	1/12
32A	2P	Y1	IP65	136x125mm		590.ER3202	1/12
	3P	Y1	IP65	136x125mm		590.ER3203	1/12
	4P	Y1	IP65	136x125mm		590.ER3204	1/12
	3P+N	Y1	IP65	136x125mm		590.ER3205	1/12
40A	2P	Y1	IP65	136x125mm		590.ER4002	1/12
	3P	Y1	IP65	136x125mm		590.ER4003	1/12
	4P	Y1	IP65	136x125mm		590.ER4004	1/12
	3P+N	Y1	IP65	136x125mm		590.ER4005	1/12

Handle padlockable in OFF position only (3 padlocks).
With panel mounting version (R) switch.

■ 16A÷40A OMNIA ENCLOSURE >> ACCESSORIES



Description	Dimensions	IP	Flange	Notes	Code	
FRAME	174x163x19mm	IP55	160X149MM	OMNIA 16-32A	572.0220	6/60

IP55 when assembled together with the relevant component.
To be used in conjunction with flush-mounted boxes.



Description	Dimensions	IP	Flange	Notes	Code	
COUPLING INSERT				OMNIA 16-32A	572.0210	6/60



Description	Dimensions	IP	Flange	Notes	Code	
BOX	135x125x70mm	IP67	136X125MM_PAR	16-32A	572.0310	6

Blank side with drilling point marks.
When joined with consumer unit (product 572.0120) [10W].
Not suitable for items 400.2416, 405.2416 and 32A fuse version.
IP67 when assembled together with the relevant component.



Description	Dimensions	IP	Flange	Notes	Code	
BOX	160x149x72mm			OMNIA 16-32A	572.0200	6

Complete with coupling insert.
Suitable for being walled up in buried systems.



Description	Dimensions	IP	Flange	Notes	Code	
BOX FOR PLASTERBOARD WALLS	160x149x75mm			OMNIA 16-32A	572.0205	6

SWITCHGEARS

Switch-disconnectors

■ 16A÷40A >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66/IP69	160x220x115mm		590.GE1606	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.GE1608	1/5
20A	2P	Y1	IP66/IP69	110x150x87mm		590.GE2012	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.GE2013	1/12
	4P	Y1	IP66/IP69	110x150x87mm		590.GE2014	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.GE2015	1/12
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.GE2012.SN	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.GE2015.SN	1/12
	25A	6P	Y3	IP66/IP69	160x220x115mm		590.GE2506
8P		Y3	IP66/IP69	160x220x115mm		590.GE2508	1/5
2P		Y1	IP66/IP69	110x150x87mm		590.GE3212	1/12
3P		Y1	IP66/IP69	110x150x87mm		590.GE3213	1/12
32A	4P	Y1	IP66/IP69	110x150x87mm		590.GE3214	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.GE3215	1/12
	6P	Y3	IP66/IP69	160x220x115mm		590.GE3206	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.GE3208	1/5
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.GE3212.SN	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.GE3215.SN	1/12
	40A	2P	Y1	IP66/IP69	110x150x87mm		590.GE4012
3P		Y1	IP66/IP69	110x150x87mm		590.GE4013	1/12
4P		Y1	IP66/IP69	110x150x87mm		590.GE4014	1/12
3P+N		Y1	IP66/IP69	110x150x87mm		590.GE4015	1/12
6P		Y3	IP66/IP69	160x220x115mm		590.GE4006	1/5
8P		Y3	IP66/IP69	160x220x115mm		590.GE4008	1/5
1P+SN		Y1	IP66/IP69	110x150x87mm		590.GE4012.SN	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.GE4015.SN	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

Blank side with drilling point marks on top side base.

Break-through cable entries on bottom side base.

Reversible base.

■ 16A÷40A >> FOR GENERAL USE - SPECIAL



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66/IP69	160x220x115mm		590.EL1606	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EL1608	1/5
20A	2P	Y1	IP66/IP69	110x150x87mm		590.EL2012	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.EL2013	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.EL2015	1/12
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.EL2012.SN	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.EL2015.SN	1/12
25A	6P	Y3	IP66/IP69	160x220x115mm		590.EL2506	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EL2508	1/5
	2P	Y1	IP66/IP69	110x150x87mm		590.EL3212	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.EL3213	1/12
32A	3P+N	Y1	IP66/IP69	110x150x87mm		590.EL3215	1/12
	6P	Y3	IP66/IP69	160x220x115mm		590.EL3206	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EL3208	1/5
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.EL3212.SN	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.EL3215.SN	1/12
40A	2P	Y1	IP66/IP69	110x150x87mm		590.EL4012	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.EL4013	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.EL4015	1/12
	6P	Y3	IP66/IP69	160x220x115mm		590.EL4006	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EL4008	1/5
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.EL4012.SN	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.EL4015.SN	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
 Blank side with drilling point marks on top side base.
 Break-through cable entries on bottom side base.
 Reversible base.

■ 16A÷40A >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66/IP69	160x220x115mm		590.EM1606	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EM1608	1/5
20A	2P	Y1	IP66/IP69	110x150x87mm		590.EM2012	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.EM2013	1/12
	4P	Y1	IP66/IP69	110x150x87mm		590.EM2014	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.EM2015	1/12
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.EM2012.SN	1/12
25A	3P+SN	Y1	IP66/IP69	110x150x87mm		590.EM2015.SN	1/12
	6P	Y3	IP66/IP69	160x220x115mm		590.EM2506	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EM2508	1/5
	2P	Y1	IP66/IP69	110x150x87mm		590.EM3212	1/12
32A	3P	Y1	IP66/IP69	110x150x87mm		590.EM3213	1/12
	4P	Y1	IP66/IP69	110x150x87mm		590.EM3214	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.EM3215	1/12
	6P	Y3	IP66/IP69	160x220x115mm		590.EM3206	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EM3208	1/5
40A	1P+SN	Y1	IP66/IP69	110x150x87mm		590.EM3212.SN	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.EM3215.SN	1/12
	2P	Y1	IP66/IP69	110x150x87mm		590.EM4012	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.EM4013	1/12
	4P	Y1	IP66/IP69	110x150x87mm		590.EM4014	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.EM4015	1/12
	6P	Y3	IP66/IP69	160x220x115mm		590.EM4006	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EM4008	1/5
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.EM4012.SN	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.EM4015.SN	1/12

Handle padlockable in OFF position only (3 padlocks)
 Blank side with drilling point marks on top side base.
 Break-through cable entries on bottom side base.
 Reversible base.



■ 63A÷250A >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
63A	2P	Y2	IP66/IP69	160x220x115mm		590.GE6302	1/5
	3P	Y2	IP66/IP69	160x220x115mm		590.GE6303	1/5
	4P	Y2	IP66/IP69	160x220x115mm		590.GE6304	1/5
	3P+N	Y2	IP66/IP69	160x220x115mm		590.GE6305	1/5
	6P	Y4	IP65	228x308x128mm		590.GE6306 ¹⁾	1
	8P	Y4	IP65	228x308x128mm		590.GE6308 ¹⁾	1
	1P+SN	Y2	IP66/IP69	160x220x115mm		590.GE6302.SN	1/5
	3P+SN	Y2	IP66/IP69	160x220x115mm		590.GE6305.SN	1/5
80A	2P	Y2	IP66/IP69	160x220x115mm		590.GE8002	1/5
	3P	Y2	IP66/IP69	160x220x115mm		590.GE8003	1/5
	4P	Y2	IP66/IP69	160x220x115mm		590.GE8004	1/5
	3P+N	Y2	IP66/IP69	160x220x115mm		590.GE8005	1/5
	6P	Y4	IP65	228x308x128mm		590.GE8006 ¹⁾	1
	8P	Y4	IP65	228x308x128mm		590.GE8008 ¹⁾	1
	1P+SN	Y2	IP66/IP69	160x220x115mm		590.GE8002.SN	1/5
	3P+SN	Y2	IP66/IP69	160x220x115mm		590.GE8005.SN	1/5
100A	3P	Y4	IP66/IP69	160x220x115mm		590.GE10003	1/5
	3P+N	Y4	IP66/IP69	160x220x115mm		590.GE10005	1/5
	6P	Y4	IP65	228x308x128mm		590.GE10006 ¹⁾	1
	8P	Y4	IP65	228x308x128mm		590.GE10008 ¹⁾	1
	3P+SN	Y4	IP66/IP69	160x220x115mm		590.GE10005.SN	1/5
125A	3P	Y5	IP55	228x308x128mm		590.GE12503 ¹⁾	1
	3P+N	Y5	IP55	228x308x128mm		590.GE12505 ¹⁾	1
	6P	Y5	IP65	308x388x128mm		590.GE12506 ¹⁾	1
	8P	Y5	IP65	308x388x128mm		590.GE12508 ¹⁾	1
	3P+SN	Y5	IP55	228x308x128mm		590.GE12505.SN ¹⁾	1
160A	3P	Y5	IP55	308x388x128mm		590.GE16003 ¹⁾	1
	3P+N	Y5	IP55	308x388x128mm		590.GE16005 ¹⁾	1
	6P	Y5	IP65	308x388x128mm		590.GE16006 ¹⁾	1
	8P	Y5	IP65	308x388x128mm		590.GE16008 ¹⁾	1
	3P+SN	Y5	IP55	308x388x128mm		590.GE16005.SN ¹⁾	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

Blank side with drilling point marks on top side base.

Break-through cable entries on bottom side base.

Reversible base.

¹⁾ Blank sides.

■ 63A÷250A >> FOR GENERAL USE - HIGH RATINGS



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
160A	3P	K2	IP65	460x520x245mm		590.GE16013	1
	3P+N	K2	IP65	460x520x245mm		590.GE16015	1
	3P+SN	K2	IP65	460x520x245mm		590.GE16015.SN	1
200A	3P	K2	IP65	460x520x245mm		590.GE20003	1
	3P+N	K2	IP65	460x520x245mm		590.GE20005	1
	3P+SN	K2	IP65	460x520x245mm		590.GE20005.SN	1
250A	3P	K2	IP65	460x520x245mm		590.GE25003	1
	3P+N	K2	IP65	460x520x245mm		590.GE25005	1
	3P+SN	K2	IP65	460x520x245mm		590.GE25005.SN	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

Break-through cable entries.

■ 63A÷250A >> FOR GENERAL USE - SPECIAL



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
63A	2P	Y2	IP66/IP69	160x220x115mm		590.EL6302	1/5
	3P	Y2	IP66/IP69	160x220x115mm		590.EL6303	1/5
	3P+N	Y2	IP66/IP69	160x220x115mm		590.EL6305	1/5
	1P+SN	Y2	IP66/IP69	160x220x115mm		590.EL6302.SN	1/5
	3P+SN	Y2	IP66/IP69	160x220x115mm		590.EL6305.SN	1/5
80A	2P	Y2	IP66/IP69	160x220x115mm		590.EL8002	1/5
	3P	Y2	IP66/IP69	160x220x115mm		590.EL8003	1/5
	3P+N	Y2	IP66/IP69	160x220x115mm		590.EL8005	1/5
	1P+SN	Y2	IP66/IP69	160x220x115mm		590.EL8002.SN	1/5
	3P+SN	Y2	IP66/IP69	160x220x115mm		590.EL8005.SN	1/5
100A	3P	Y4	IP66/IP69	160x220x115mm		590.EL10003	1/5
	3P+N	Y4	IP66/IP69	160x220x115mm		590.EL10005	1/5
	3P+SN	Y4	IP66/IP69	160x220x115mm		590.EL10005.SN	1/5

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
 Blank side with drilling point marks on top side base.
 Break-through cable entries on bottom side base.
 Reversible base.



SWITCHGEARS

Switch-disconnectors

■ 63A÷250A >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
63A	2P	Y2	IP66/IP69	160x220x115mm		590.EM6302	1/5
	3P	Y2	IP66/IP69	160x220x115mm		590.EM6303	1/5
	4P	Y2	IP66/IP69	160x220x115mm		590.EM6304	1/5
	3P+N	Y2	IP66/IP69	160x220x115mm		590.EM6305	1/5
	6P	Y4	IP55	228x308x128mm		590.EM6306 ¹⁾	1
	8P	Y4	IP55	228x308x128mm		590.EM6308 ¹⁾	1
	1P+SN	Y2	IP66/IP69	160x220x115mm		590.EM6302.SN	1/5
	3P+SN	Y2	IP66/IP69	160x220x115mm		590.EM6305.SN	1/5
80A	2P	Y2	IP66/IP69	160x220x115mm		590.EM8002	1/5
	3P	Y2	IP66/IP69	160x220x115mm		590.EM8003	1/5
	4P	Y2	IP66/IP69	160x220x115mm		590.EM8004	1/5
	3P+N	Y2	IP66/IP69	160x220x115mm		590.EM8005	1/5
	6P	Y4	IP55	228x308x128mm		590.EM8006 ¹⁾	1
	8P	Y4	IP55	228x308x128mm		590.EM8008 ¹⁾	1
	1P+SN	Y2	IP66/IP69	160x220x115mm		590.EM8002.SN	1/5
	3P+SN	Y2	IP66/IP69	160x220x115mm		590.EM8005.SN	1/5
100A	3P	Y4	IP66/IP69	160x220x115mm		590.EM10003	1/5
	3P+N	Y4	IP66/IP69	160x220x115mm		590.EM10005	1/5
	6P	Y4	IP55	228x308x128mm		590.EM10006 ¹⁾	1
	8P	Y4	IP55	228x308x128mm		590.EM10008 ¹⁾	1
125A	3P+SN	Y4	IP66/IP69	160x220x115mm		590.EM10005.SN	1
	3P	Y5	IP55	228x308x128mm		590.EM12503 ¹⁾	1
	3P+N	Y5	IP55	228x308x128mm		590.EM12505 ¹⁾	1
	6P	Y5	IP55	308x388x128mm		590.EM12506 ¹⁾	1
	8P	Y5	IP55	308x388x128mm		590.EM12508 ¹⁾	1
	3P+SN	Y5	IP55	228x308x128mm		590.EM12505.SN ¹⁾	1
160A	3P	Y5	IP55	308x388x128mm		590.EM16003 ¹⁾	1
	3P+N	Y5	IP55	308x388x128mm		590.EM16005 ¹⁾	1
	6P	Y5	IP55	308x388x128mm		590.EM16006 ¹⁾	1
	8P	Y5	IP55	308x388x128mm		590.EM16008 ¹⁾	1
	3P+SN	Y5	IP55	308x388x128mm		590.EM16005.SN ¹⁾	1

Handle padlockable in OFF position only (3 padlocks)
Blank side with drilling point marks on top side base.
Break-through cable entries on bottom side base.
Reversible base.

¹⁾ Blank sides.

■ 63A÷250A >> FOR EMERGENCY USE - HIGH RATINGS



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
160A	3P	K2	IP65	460x520x245mm		590.EM16013	1
	3P+N	K2	IP65	460x520x245mm		590.EM16015	1
	3P+SN	K2	IP65	460x520x245mm		590.EM16015.SN	1
200A	3P	K2	IP65	460x520x245mm		590.EM20003	1
	3P+N	K2	IP65	460x520x245mm		590.EM20005	1
	3P+SN	K2	IP65	460x520x245mm		590.EM20005.SN	1
250A	3P	K2	IP65	460x520x245mm		590.EM25003	1
	3P+N	K2	IP65	460x520x245mm		590.EM25005	1
	3P+SN	K2	IP65	460x520x245mm		590.EM25005.SN	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
Break-through cable entries.

■ 1P+SN >> FOR GENERAL USE



Current	Poles	IP	Dimensions	Colour	Code	
20A	1P+SN	IP65	82x120x69mm		590.GE2022.SN	1/12
32A	1P+SN	IP65	82x120x69mm		590.GE3222.SN	1/12
40A	1P+SN	IP65	82x120x69mm		590.GE4022.SN	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
 Break-through cable entries.
 Single pole switch, not suitable to receive door-locking kit.
 Suitable to switch single phase motor loads or other inductive loads.
 Integrated switch.

Type: GENERAL

■ 1P+SN >> FOR GENERAL USE - SPECIAL



Current	Poles	IP	Dimensions	Colour	Code	
20A	1P+SN	IP65	82x120x69mm		590.EL2022.SN	1/12
32A	1P+SN	IP65	82x120x69mm		590.EL3222.SN	1/12
40A	1P+SN	IP65	82x120x69mm		590.EL4022.SN	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
 Break-through cable entries.
 Single pole switch, not suitable to receive door-locking kit.
 Suitable to switch single phase motor loads or other inductive loads.
 Integrated switch.

Type: GENERAL

■ 1P+SN >> FOR EMERGENCY USE



Current	Poles	IP	Dimensions	Colour	Code	
20A	1P+SN	IP65	82x120x69mm		590.EM2022.SN	1/12
32A	1P+SN	IP65	82x120x69mm		590.EM3222.SN	1/12
40A	1P+SN	IP65	82x120x69mm		590.EM4022.SN	1/12

Handle padlockable in OFF position only (3 padlocks).
 Break-through cable entries.
 Single pole switch, not suitable to receive door-locking kit.
 Suitable to switch single phase motor loads or other inductive loads.
 Integrated switch.

Type: EMERGENCY






ISOLATORS-HD Series

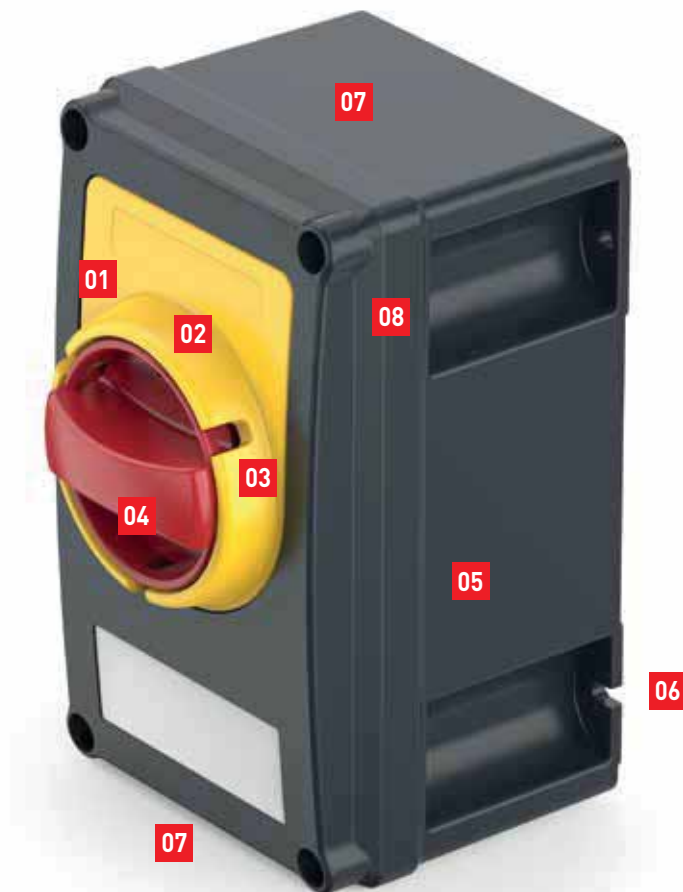
ISOLATORS-HD is a complete range of switch-disconnectors with enclosure made of a special shockproof and self-extinguishing thermoplastic material which guarantees extreme resistance to impact (IK10), heat and fire (GW 960 ° C as required by EN 60695-2-1), as well as atmospheric agents (from -40 ° C to + 60 ° C).

For this reason, the ISOLATORS-HD are particularly suitable for applications in harsh environments as an alternative to the metal casing.

 technical sheet p. 810

Technical information

Main characteristics



- | | |
|---|---|
| 01 High visibility handle and plate | 05 High-resistance engineering plastic enclosure |
| 02 Door locking with handle in the ON position | 06 External fixing points |
| 03 Handle padlockable in the OFF (emergency use) and ON and OFF (general use) position | 07 Blank sides with drilling point marks |
| 04 AC23 switch with the possibility of double auxiliary contact | |

Application examples



Heavy industry



Port - Container terminal



■ FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	2P	Y1	IP66	115x190x128mm		590.JGE2002	1/12
	3P	Y1	IP66	115x190x128mm		590.JGE2003	1/12
	3P+N	Y1	IP66	115x190x128mm		590.JGE2005	1/12
32A	2P	Y1	IP66	115x190x128mm		590.JGE3202	1/12
	3P	Y1	IP66	115x190x128mm		590.JGE3203	1/12
	3P+N	Y1	IP66	115x190x128mm		590.JGE3205	1/12
40A	2P	Y1	IP66	115x190x128mm		590.JGE4002	1/12
	3P	Y1	IP66	115x190x128mm		590.JGE4003	1/12
	3P+N	Y1	IP66	115x190x128mm		590.JGE4005	1/12

Blank side with drilling point marks.

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

■ FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	2P	Y1	IP66	115x190x128mm		590.JEM2002	1/12
	3P	Y1	IP66	115x190x128mm		590.JEM2003	1/12
	3P+N	Y1	IP66	115x190x128mm		590.JEM2005	1/12
32A	2P	Y1	IP66	115x190x128mm		590.JEM3202	1/12
	3P	Y1	IP66	115x190x128mm		590.JEM3203	1/12
	3P+N	Y1	IP66	115x190x128mm		590.JEM3205	1/12
40A	2P	Y1	IP66	115x190x128mm		590.JEM4002	1/12
	3P	Y1	IP66	115x190x128mm		590.JEM4003	1/12
	3P+N	Y1	IP66	115x190x128mm		590.JEM4005	1/12

Blank side with drilling point marks.


Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.





ISOLATORS-AL Series

ISOLATORS-AL is a complete range of switch-disconnectors with die-cast aluminum enclosure protected with polyurethane epoxy paints. For this reason, it is particularly suitable for applications where high resistance to chemicals, humidity and dust (IP66) is required, as well as maximum mechanical resistance to stress (IK10).

 technical sheet p. 792

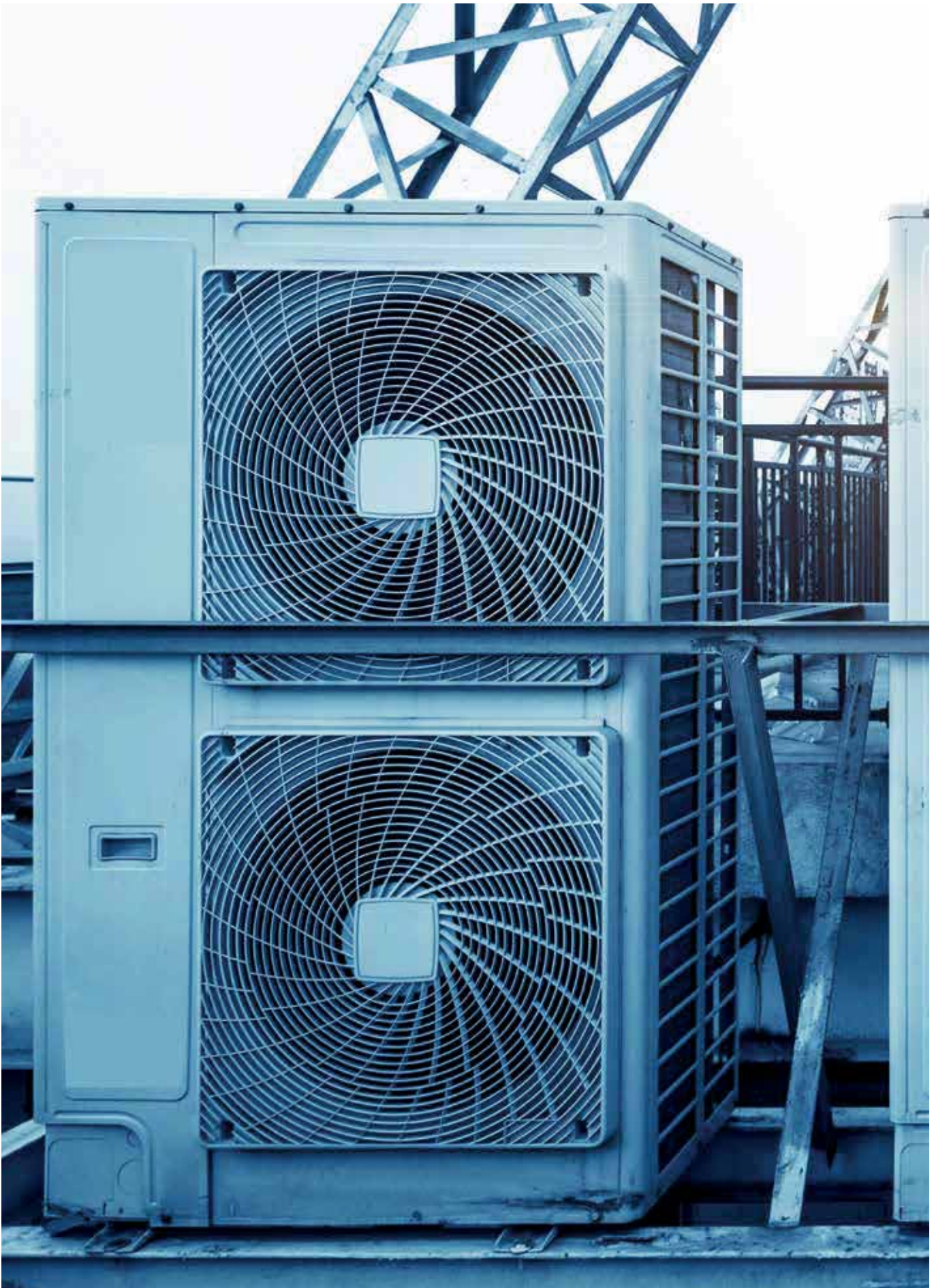
Technical information

Main characteristics



- 01** High visibility handle and plate
- 02** Door locking with handle in the ON position
- 03** AC23 switch with the possibility of double auxiliary contact
- 04** Handle padlockable in the OFF (emergency use) and ON and OFF (general use) position
- 05** Aluminium epoxy polyurethane painted enclosure with high resistance to atmospheric agents
- 06** Open threaded cable entries with IP66 caps
- 07** External and integrated fixing points
- 08** Open threaded cable entries with IP66 caps

Applications examples



SWITCHGEARS

Switch-disconnectors

■ 16A÷40A >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66	150x210x107mm		590.HGE1606 ¹⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HGE1608 ¹⁾	1/5
20A	2P	Y1	IP66	105x150x82mm		590.HGE2002 ²⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HGE2003 ²⁾	1/12
	4P	Y1	IP66	105x150x82mm		590.HGE2004 ²⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HGE2005 ²⁾	1/12
	1P+SN	Y1	IP66	105x150x82mm		590.HGE2002.SN ²⁾	1/12
	3P+SN	Y1	IP66	105x150x82mm		590.HGE2005.SN ²⁾	1/12
	25A	6P	Y3	IP66	150x210x107mm		590.HGE2506 ¹⁾
8P		Y3	IP66	150x210x107mm		590.HGE2508 ¹⁾	1/5
2P		Y1	IP66	105x150x82mm		590.HGE3202 ²⁾	1/12
3P		Y1	IP66	105x150x82mm		590.HGE3203 ²⁾	1/12
32A	4P	Y1	IP66	105x150x82mm		590.HGE3204 ²⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HGE3205 ²⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HGE3206 ¹⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HGE3208 ¹⁾	1/5
	1P+SN	Y1	IP66	105x150x82mm		590.HGE3202.SN ²⁾	1/12
	3P+SN	Y1	IP66	105x150x82mm		590.HGE3205.SN ²⁾	1/12
	40A	2P	Y1	IP66	105x150x82mm		590.HGE4002 ²⁾
3P		Y1	IP66	105x150x82mm		590.HGE4003 ²⁾	1/12
4P		Y1	IP66	105x150x82mm		590.HGE4004 ²⁾	1/12
3P+N		Y1	IP66	105x150x82mm		590.HGE4005 ²⁾	1/12
6P		Y3	IP66	150x210x107mm		590.HGE4006 ¹⁾	1/5
8P		Y3	IP66	150x210x107mm		590.HGE4008 ¹⁾	1/5
1P+SN		Y1	IP66	105x150x82mm		590.HGE4002.SN ²⁾	1/12
	3P+SN	Y1	IP66	105x150x82mm		590.HGE4005.SN ²⁾	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

¹⁾ Blank sides.

²⁾ Open threaded cable entry with cap / cable sleeve.

■ 16A÷40A >> FOR GENERAL USE - SPECIAL



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66	150x210x107mm		590.HEL1606 ¹⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEL1608 ¹⁾	1/5
20A	2P	Y1	IP66	105x150x82mm		590.HEL2002 ²⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HEL2003 ²⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HEL2005 ²⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HEL2506 ¹⁾	1/5
25A	8P	Y3	IP66	150x210x107mm		590.HEL2508 ¹⁾	1/5
	2P	Y1	IP66	105x150x82mm		590.HEL3202 ²⁾	1/12
32A	3P	Y1	IP66	105x150x82mm		590.HEL3203 ²⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HEL3205 ²⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HEL3206 ¹⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEL3208 ¹⁾	1/5
40A	2P	Y1	IP66	105x150x82mm		590.HEL4002 ²⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HEL4003 ²⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HEL4005 ²⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HEL4006 ¹⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEL4008 ¹⁾	1/5
	6P	Y3	IP66	150x210x107mm		590.HEL4006 ¹⁾	1/5

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

¹⁾Blank sides.

²⁾Open threaded cable entry with cap / cable sleeve.

■ 16A÷40A >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66	150x210x107mm		590.HEM1606 ¹⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEM1608 ¹⁾	1/5
20A	2P	Y1	IP66	105x150x82mm		590.HEM2002 ²⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HEM2003 ²⁾	1/12
	4P	Y1	IP66	105x150x82mm		590.HEM2004 ²⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HEM2005 ²⁾	1/12
	1P+SN	Y1	IP66	105x150x82mm		590.HEM2002.SN ²⁾	1/12
	3P+SN	Y1	IP66	105x150x82mm		590.HEM2005.SN ²⁾	1/12
25A	6P	Y3	IP66	150x210x107mm		590.HEM2506 ¹⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEM2508 ¹⁾	1/5
	2P	Y1	IP66	105x150x82mm		590.HEM3202 ²⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HEM3203 ²⁾	1/12
32A	4P	Y1	IP66	105x150x82mm		590.HEM3204 ²⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HEM3205 ²⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HEM3206 ¹⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEM3208 ¹⁾	1/5
	1P+SN	Y1	IP66	105x150x82mm		590.HEM3202.SN ²⁾	1/12
	3P+SN	Y1	IP66	105x150x82mm		590.HEM3205.SN ²⁾	1/12
40A	2P	Y1	IP66	105x150x82mm		590.HEM4002 ²⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HEM4003 ²⁾	1/12
	4P	Y1	IP66	105x150x82mm		590.HEM4004 ²⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HEM4005 ²⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HEM4006 ¹⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEM4008 ¹⁾	1/5
	1P+SN	Y1	IP66	105x150x82mm		590.HEM4002.SN ²⁾	1/12
	3P+SN	Y1	IP66	105x150x82mm		590.HEM4005.SN ²⁾	1/12

Handle padlockable in OFF position only (3 padlocks).

¹⁾Blank sides.

²⁾Open threaded cable entry with cap / cable sleeve.



SWITCHGEARS

Switch-disconnectors

■ 63A÷160A >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
63A	2P	Y2	IP66	150x210x107mm		590.HGE6302 ²⁾	1/5
	3P	Y2	IP66	150x210x107mm		590.HGE6303 ²⁾	1/5
	4P	Y2	IP66	150x210x107mm		590.HGE6304 ²⁾	1/5
	3P+N	Y2	IP66	150x210x107mm		590.HGE6305 ²⁾	1/5
	6P	Y4	IP65	264x315x122mm		590.HGE6306	1
	8P	Y4	IP65	264x315x122mm		590.HGE6308	1
	1P+SN	Y2	IP66	150x210x107mm		590.HGE6302.SN ²⁾	1/5
	3P+SN	Y2	IP66	150x210x107mm		590.HGE6305.SN ²⁾	1/5
80A	2P	Y2	IP66	150x210x107mm		590.HGE8002 ²⁾	1/5
	3P	Y2	IP66	150x210x107mm		590.HGE8003 ²⁾	1/5
	4P	Y2	IP66	150x210x107mm		590.HGE8004 ²⁾	1/5
	3P+N	Y2	IP66	150x210x107mm		590.HGE8005 ²⁾	1/5
	6P	Y4	IP65	264x315x122mm		590.HGE8006 ¹⁾	1
	8P	Y4	IP65	264x315x122mm		590.HGE8008 ¹⁾	1
	1P+SN	Y2	IP66	150x210x107mm		590.HGE8002.SN ²⁾	1/5
	3P+SN	Y2	IP66	150x210x107mm		590.HGE8005.SN ²⁾	1/5
100A	3P	Y4	IP66	150x210x107mm		590.HGE10003 ²⁾	1/5
	3P+N	Y4	IP66	150x210x107mm		590.HGE10005 ²⁾	1/5
	6P	Y4	IP65	264x315x122mm		590.HGE10006 ¹⁾	1
	8P	Y4	IP65	264x315x122mm		590.HGE10008 ¹⁾	1
	3P+SN	Y4	IP66	150x210x107mm		590.HGE10005.SN ²⁾	1/5
125A	3P	Y5	IP65	264x315x122mm		590.HGE12503 ¹⁾	1
	3P+N	Y5	IP65	264x315x122mm		590.HGE12505 ¹⁾	1
	6P	Y5	IP65	315x410x150mm		590.HGE12506 ¹⁾	1
	8P	Y5	IP65	315x410x150mm		590.HGE12508 ¹⁾	1
	3P+SN	Y5	IP65	264x315x122mm		590.HGE12505.SN ¹⁾	1
160A	3P	Y5	IP65	315x410x150mm		590.HGE16003 ¹⁾	1
	3P+N	Y5	IP65	315x410x150mm		590.HGE16005 ¹⁾	1
	6P	Y5	IP65	315x410x150mm		590.HGE16006 ¹⁾	1
	8P	Y5	IP65	315x410x150mm		590.HGE16008 ¹⁾	1
	3P+SN	Y5	IP65	315x410x150mm		590.HGE16005.SN ¹⁾	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

¹⁾ Blank sides.

²⁾ Open threaded cable entry with cap / cable sleeve.

■ 63A÷160A >> FOR GENERAL USE - SPECIAL



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
63A	2P	Y2	IP66	150x210x107mm		590.HEL6302 ²⁾	1/5
	3P	Y2	IP66	150x210x107mm		590.HEL6303 ²⁾	1/5
	3P+N	Y2	IP66	150x210x107mm		590.HEL6305 ²⁾	1/5
80A	2P	Y2	IP66	150x210x107mm		590.HEL8002 ²⁾	1/5
	3P	Y2	IP66	150x210x107mm		590.HEL8003 ²⁾	1/5
100A	3P	Y4	IP66	150x210x107mm		590.HEL10003 ¹⁾	1/5
	3P+N	Y4	IP66	150x210x107mm		590.HEL10005 ¹⁾	1/5

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

¹⁾ Blank sides.

²⁾ Open threaded cable entry with cap / cable sleeve.

■ 63A÷160A >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
63A	2P	Y2	IP66	150x210x107mm		590.HEM6302 ²⁾	1/5
	3P	Y2	IP66	150x210x107mm		590.HEM6303 ²⁾	1/5
	4P	Y2	IP66	150x210x107mm		590.HEM6304 ²⁾	1/5
	3P+N	Y2	IP66	150x210x107mm		590.HEM6305 ²⁾	1/5
	6P	Y4	IP65	264x315x122mm		590.HEM6306 ¹⁾	1
	8P	Y4	IP66	264x315x122mm		590.HEM6308 ¹⁾	1
	1P+SN	Y2	IP66	150x210x107mm		590.HEM6302.SN ²⁾	1/5
	3P+SN	Y2	IP66	150x210x107mm		590.HEM6305.SN ²⁾	1/5
80A	2P	Y2	IP66	150x210x107mm		590.HEM8002 ²⁾	1/5
	3P	Y2	IP66	150x210x107mm		590.HEM8003 ²⁾	1/5
	4P	Y2	IP66	150x210x107mm		590.HEM8004 ²⁾	1/5
	3P+N	Y2	IP66	150x210x107mm		590.HEM8005 ²⁾	1/5
	6P	Y4	IP65	264x315x122mm		590.HEM8006 ¹⁾	1
	8P	Y4	IP66	264x315x122mm		590.HEM8008 ¹⁾	1
	1P+SN	Y2	IP66	150x210x107mm		590.HEM8002.SN ²⁾	1/5
	3P+SN	Y2	IP66	150x210x107mm		590.HEM8005.SN ²⁾	1/5
100A	3P	Y4	IP66	150x210x107mm		590.HEM10003 ²⁾	1/5
	3P+N	Y4	IP66	150x210x107mm		590.HEM10005 ²⁾	1/5
	6P	Y4	IP65	264x315x122mm		590.HEM10006 ¹⁾	1
	8P	Y4	IP66	264x315x122mm		590.HEM10008 ¹⁾	1
	3P+SN	Y4	IP66	150x210x107mm		590.HEM10005.SN ²⁾	1/5
125A	3P	Y5	IP65	264x315x122mm		590.HEM12503 ¹⁾	1
	3P+N	Y5	IP65	264x315x122mm		590.HEM12505 ¹⁾	1
	6P	Y5	IP65	315x410x150mm		590.HEM12506 ¹⁾	1
	8P	Y5	IP65	315x410x150mm		590.HEM12508 ¹⁾	1
	3P+SN	Y5	IP65	264x315x122mm		590.HEM12505.SN ¹⁾	1
160A	3P	Y5	IP65	315x410x150mm		590.HEM16003 ¹⁾	1
	3P+N	Y5	IP65	315x410x150mm		590.HEM16005 ¹⁾	1
	6P	Y5	IP65	315x410x150mm		590.HEM16006 ¹⁾	1
	8P	Y5	IP65	315x410x150mm		590.HEM16008 ¹⁾	1
	3P+SN	Y5	IP65	315x410x150mm		590.HEM16005.SN ¹⁾	1

Handle padlockable in OFF position only (3 padlocks).

¹⁾ Blank sides.

²⁾ Open threaded cable entry with cap / cable sleeve.



■ 20A÷160A HIGH WIRING CAPACITY >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y1	IP66	264x315x122mm	■	590.HGE1606.W ¹⁾	1
	8P	Y1	IP66	264x315x122mm	■	590.HGE1608.W ¹⁾	1
20A	2P	Y1	IP66	150x210x107mm	■	590.HGE2002.W ²⁾	1/5
	3P	Y1	IP66	150x210x107mm	■	590.HGE2003.W ²⁾	1/5
	3P+N	Y1	IP66	150x210x107mm	■	590.HGE2005.W ²⁾	1/5
	1P+SN	Y1	IP66	150x210x107mm	■	590.HGE2002.WSN ²⁾	1/5
	3P+SN	Y1	IP66	150x210x107mm	■	590.HGE2005.WSN ²⁾	1/5
	25A	6P	Y1	IP66	264x315x122mm	■	590.HGE2506.W ¹⁾
25A	8P	Y1	IP66	264x315x122mm	■	590.HGE2508.W ¹⁾	1
	2P	Y1	IP66	150x210x107mm	■	590.HGE3202.W ²⁾	1/5
	3P	Y1	IP66	150x210x107mm	■	590.HGE3203.W ²⁾	1/5
	3P+N	Y1	IP66	150x210x107mm	■	590.HGE3205.W ²⁾	1/5
32A	6P	Y1	IP66	264x315x122mm	■	590.HGE3206.W ¹⁾	1
	8P	Y1	IP66	264x315x122mm	■	590.HGE3208.W ¹⁾	1
	1P+SN	Y1	IP66	150x210x107mm	■	590.HGE3202.WSN ²⁾	1/5
	3P+SN	Y1	IP66	150x210x107mm	■	590.HGE3205.WSN ²⁾	1/5
40A	2P	Y1	IP66	150x210x107mm	■	590.HGE4002.W ²⁾	1/5
	3P	Y1	IP66	150x210x107mm	■	590.HGE4003.W ²⁾	1/5
	3P+N	Y1	IP66	150x210x107mm	■	590.HGE4005.W ²⁾	1/5
	6P	Y1	IP66	264x315x122mm	■	590.HGE4006.W ¹⁾	1
	8P	Y1	IP66	264x315x122mm	■	590.HGE4008.W ¹⁾	1
	1P+SN	Y1	IP66	150x210x107mm	■	590.HGE4002.WSN ²⁾	1/5
	3P+SN	Y1	IP66	150x210x107mm	■	590.HGE4005.WSN ²⁾	1/5
	63A	2P	Y2	IP65	264x315x112mm	■	590.HGE6302.W ²⁾
63A	3P	Y2	IP65	264x315x112mm	■	590.HGE6303.W ²⁾	1
	3P+N	Y2	IP65	264x315x112mm	■	590.HGE6305.W ²⁾	1
	6P	Y2	IP65	315x410x150mm	■	590.HGE6306.W	1
	8P	Y2	IP65	315x410x150mm	■	590.HGE6308.W	1
	1P+SN	Y2	IP65	264x315x112mm	■	590.HGE6302.WSN ²⁾	1
	3P+SN	Y2	IP65	264x315x112mm	■	590.HGE6305.WSN ²⁾	1
80A	2P	Y2	IP65	264x315x112mm	■	590.HGE8002.W ²⁾	1
	3P	Y2	IP65	264x315x112mm	■	590.HGE8003.W ²⁾	1
	3P+N	Y2	IP65	264x315x112mm	■	590.HGE8005.W ²⁾	1
	6P	Y2	IP65	315x410x150mm	■	590.HGE8006.W ¹⁾	1
	8P	Y2	IP65	315x410x150mm	■	590.HGE8008.W ¹⁾	1
	1P+SN	Y2	IP65	264x315x112mm	■	590.HGE8002.WSN ²⁾	1
100A	3P+SN	Y2	IP65	264x315x112mm	■	590.HGE8005.WSN ²⁾	1
	3P	K1	IP65	315x410x150mm	■	590.HGE10003.W ²⁾	1
	3P+N	K1	IP65	315x410x150mm	■	590.HGE10005.W ²⁾	1
	6P	Y2	IP65	315x410x150mm	■	590.HGE10006.W ¹⁾	1
125A	8P	Y2	IP65	315x410x150mm	■	590.HGE10008.W ¹⁾	1
	3P+SN	K1	IP65	315x410x150mm	■	590.HGE10005.WSN ²⁾	1
	3P	K1	IP65	315x410x150mm	■	590.HGE12503.W ¹⁾	1
	3P+N	K1	IP65	315x410x150mm	■	590.HGE12505.W ¹⁾	1
160A	3P+SN	K1	IP65	315x410x150mm	■	590.HGE12505.WSN ¹⁾	1
	3P	K2	IP65	315x410x150mm	■	590.HGE16003.W ¹⁾	1
	3P+N	K2	IP65	315x410x150mm	■	590.HGE16005.W ¹⁾	1
160A	3P+SN	K2	IP65	315x410x150mm	■	590.HGE16005.WSN ¹⁾	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

¹⁾ Blank sides.

²⁾ Open threaded cable entry with cap / cable sleeve.

■ 20A÷160A HIGH WIRING CAPACITY >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y1	IP66	264x315x122mm		590.HEM1606.W ^{2) 3)}	1
	8P	Y1	IP66	264x315x122mm		590.HEM1608.W ^{2) 3)}	1
20A	2P	Y1	IP66	150x210x107mm		590.HEM2002.W ^{2) 4)}	1/5
	3P	Y1	IP66	150x210x107mm		590.HEM2003.W ^{2) 4)}	1/5
	3P+N	Y1	IP66	150x210x107mm		590.HEM2005.W ^{2) 4)}	1/5
	1P+SN	Y1	IP66	150x210x107mm		590.HEM2002.WSN ^{2) 4)}	1/5
	3P+SN	Y1	IP66	150x210x107mm		590.HEM2005.WSN ^{2) 4)}	1/5
25A	6P	Y1	IP66	264x315x122mm		590.HEM2506.W ^{2) 3)}	1
	8P	Y1	IP66	264x315x122mm		590.HEM2508.W ^{2) 3)}	1
	2P	Y1	IP66	150x210x107mm		590.HEM3202.W ^{2) 4)}	1/5
	3P	Y1	IP66	150x210x107mm		590.HEM3203.W ^{2) 4)}	1/5
32A	3P+N	Y1	IP66	150x210x107mm		590.HEM3205.W ^{2) 4)}	1/5
	6P	Y1	IP66	264x315x122mm		590.HEM3206.W ^{2) 3)}	1
	8P	Y1	IP66	264x315x122mm		590.HEM3208.W ^{2) 3)}	1
	1P+SN	Y1	IP66	150x210x107mm		590.HEM3202.WSN ^{2) 4)}	1/5
	3P+SN	Y1	IP66	150x210x107mm		590.HEM3205.WSN ^{2) 4)}	1/5
40A	2P	Y1	IP66	150x210x107mm		590.HEM4002.W ^{2) 4)}	1/5
	3P	Y1	IP66	150x210x107mm		590.HEM4003.W ^{2) 4)}	1/5
	3P+N	Y1	IP66	150x210x107mm		590.HEM4005.W ^{2) 4)}	1/5
	6P	Y1	IP66	264x315x122mm		590.HEM4006.W ^{2) 3)}	1
	8P	Y1	IP66	264x315x122mm		590.HEM4008.W ^{2) 3)}	1
	1P+SN	Y1	IP66	150x210x107mm		590.HEM4002.WSN ^{2) 4)}	1/5
	3P+SN	Y1	IP66	150x210x107mm		590.HEM4005.WSN ^{2) 4)}	1/5
63A	2P	Y2	IP65	264x315x112mm		590.HEM6302.W ^{2) 4)}	1
	3P	Y2	IP65	264x315x112mm		590.HEM6303.W ^{2) 4)}	1
	3P+N	Y2	IP65	264x315x112mm		590.HEM6305.W ^{2) 4)}	1
	6P	Y2	IP65	315x410x150mm		590.HEM6306.W ²⁾	1
	8P	Y2	IP65	315x410x150mm		590.HEM6308.W ²⁾	1
	1P+SN	Y2	IP65	264x315x112mm		590.HEM6302.WSN ^{2) 4)}	1
	3P+SN	Y2	IP65	264x315x112mm		590.HEM6305.WSN ^{2) 4)}	1
80A	2P	Y2	IP65	264x315x112mm		590.HEM8002.W ^{2) 4)}	1
	3P	Y2	IP65	264x315x112mm		590.HEM8003.W ^{2) 4)}	1
	3P+N	Y2	IP65	264x315x112mm		590.HEM8005.W ^{2) 4)}	1
	6P	Y2	IP65	315x410x150mm		590.HEM8006.W ^{2) 3)}	1
	8P	Y2	IP65	315x410x150mm		590.HEM8008.W ^{2) 3)}	1
100A	1P+SN	Y2	IP65	264x315x112mm		590.HEM8002.WSN ^{2) 4)}	1
	3P+SN	Y2	IP65	264x315x112mm		590.HEM8005.WSN ^{2) 4)}	1
	3P	K1	IP65	315x410x150mm		590.HEM10003.W ^{1) 4)}	1
125A	3P+N	K1	IP65	315x410x150mm		590.HEM10005.W ^{1) 4)}	1
	3P+SN	K1	IP65	315x410x150mm		590.HEM10005.WSN ^{1) 4)}	1
	3P	K1	IP65	315x410x150mm		590.HEM12503.W ^{1) 3)}	1
160A	3P+N	K1	IP65	315x410x150mm		590.HEM12505.W ^{1) 3)}	1
	3P+SN	K1	IP65	315x410x150mm		590.HEM12505.WSN ^{1) 3)}	1
	3P	K2	IP65	315x410x150mm		590.HEM16003.W ^{1) 3)}	1
160A	3P+N	K2	IP65	315x410x150mm		590.HEM16005.W ^{1) 3)}	1
	3P+SN	K2	IP65	315x410x150mm		590.HEM16005.WSN ^{1) 3)}	1

¹⁾ Handle padlockable in OFF position only (3 padlocks).

²⁾ Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

³⁾ Blank sides.

⁴⁾ Open threaded cable entry with cap / cable sleeve.






ISOLATORS-INOX Series

ISOLATORS-INOX is a complete range of switch-disconnectors with AISI304L stainless steel casing (on request AISI316L) and specific solutions to prevent the accumulation of dirt, thus guaranteeing mechanical and environmental performance unaltered over time.

ISOLATORS-INOX are the best choice where maximum hygiene is required together with excellent resistance to corrosion due to aggressive detergents such as in the food and pharmaceutical industries, or to high salt or chemical concentrations such as in ports and in particular industrial environments or, again, in the presence of chlorine as in swimming pools.

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Technical information

Main characteristics



- 01** Blank sides
- 02** Ergonomic XXL handle
- 03** Enclosure in AISI 304 stainless steel (AISI 316 on request)
- 04** AC23 switch with the possibility of double auxiliary contact
- 05** Handle padlockable in the OFF (emergency use) and ON and OFF (general use) position
- 06** Door locking with handle in the ON position
- 07** Wall fixing by means of cantilevered brackets to prevent dirt deposits

■ FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP65	250x280x120mm		590.SGE1606	1
	8P	Y3	IP65	250x280x120mm		590.SGE1608	1
20A	2P	Y1	IP65	100x160x90mm		590.SGE2002	1
	3P	Y1	IP65	100x160x90mm		590.SGE2003	1
	3P+N	Y1	IP65	100x160x90mm		590.SGE2005	1
	1P+SN	Y1	IP65	100x160x90mm		590.SGE2002.SN	1
	3P+SN	Y1	IP65	100x160x90mm		590.SGE2005.SN	1
25A	6P	Y3	IP65	250x280x120mm		590.SGE2506	1
	8P	Y3	IP65	250x280x120mm		590.SGE2508	1
	2P	Y1	IP65	100x160x90mm		590.SGE3202	1
	3P	Y1	IP65	100x160x90mm		590.SGE3203	1
32A	3P+N	Y1	IP65	100x160x90mm		590.SGE3205	1
	6P	Y3	IP65	250x280x120mm		590.SGE3206	1
	8P	Y3	IP65	250x280x120mm		590.SGE3208	1
	1P+SN	Y1	IP65	100x160x90mm		590.SGE3202.SN	1
	3P+SN	Y1	IP65	100x160x90mm		590.SGE3205.SN	1
40A	2P	Y1	IP65	100x160x90mm		590.SGE4002	1
	3P	Y1	IP65	100x160x90mm		590.SGE4003	1
	3P+N	Y1	IP65	100x160x90mm		590.SGE4005	1
	6P	Y3	IP65	250x280x120mm		590.SGE4006	1
	8P	Y3	IP65	250x280x120mm		590.SGE4008	1
63A	1P+SN	Y1	IP65	100x160x90mm		590.SGE4002.SN	1
	3P+SN	Y1	IP65	100x160x90mm		590.SGE4005.SN	1
	3P	Y4	IP65	150x220x120mm		590.SGE6303	1
	3P+N	Y4	IP65	150x220x120mm		590.SGE6305	1
	6P	Y4	IP65	250x280x120mm		590.SGE6306	1
80A	8P	Y4	IP65	250x280x120mm		590.SGE6308	1
	3P+SN	Y4	IP65	150x220x120mm		590.SGE6305.SN	1
	3P	Y4	IP65	150x220x120mm		590.SGE8003	1
	3P+N	Y4	IP65	150x220x120mm		590.SGE8005	1
	6P	Y4	IP65	250x280x120mm		590.SGE8006	1
100A	8P	Y4	IP65	250x280x120mm		590.SGE8008	1
	3P+SN	Y4	IP65	150x220x120mm		590.SGE8005.SN	1
	3P	Y4	IP65	150x220x120mm		590.SGE10003	1
	3P+N	Y4	IP65	150x220x120mm		590.SGE10005	1
	6P	Y4	IP65	250x280x120mm		590.SGE10006	1
125A	8P	Y4	IP65	250x280x120mm		590.SGE10008	1
	3P+SN	Y4	IP65	150x220x120mm		590.SGE10005.SN	1
	3P	Y5	IP65	300x400x150mm		590.SGE12503	1
	3P+N	Y5	IP65	300x400x150mm		590.SGE12505	1
	6P	Y5	IP65	300x400x150mm		590.SGE12506	1
160A	8P	Y5	IP65	300x400x150mm		590.SGE12508	1
	3P+SN	Y5	IP65	300x400x150mm		590.SGE12505.SN	1
	3P	Y5	IP65	300x400x150mm		590.SGE16003	1
	3P+N	Y5	IP65	300x400x150mm		590.SGE16005	1
	6P	Y5	IP65	300x400x150mm		590.SGE16006	1
160A	8P	Y5	IP65	300x400x150mm		590.SGE16008	1
	3P+SN	Y5	IP65	300x400x150mm		590.SGE16005.SN	1


















































Handle padlockable in OFF position only (3 padlocks).
Blank sides.



■ FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP65	250x280x120mm		590.SEM1606	1
	8P	Y3	IP65	250x280x120mm		590.SEM1608	1
20A	2P	Y1	IP65	100x160x90mm		590.SEM2002	1
	3P	Y1	IP65	100x160x90mm		590.SEM2003	1
	3P+N	Y1	IP65	100x160x90mm		590.SEM2005	1
	1P+SN	Y1	IP65	100x160x90mm		590.SEM2002.SN	1
	3P+SN	Y1	IP65	100x160x90mm		590.SEM2005.SN	1
25A	6P	Y3	IP65	250x280x120mm		590.SEM2506	1
	8P	Y3	IP65	250x280x120mm		590.SEM2508	1
	2P	Y1	IP65	100x160x90mm		590.SEM3202	1
	3P	Y1	IP65	100x160x90mm		590.SEM3203	1
32A	3P+N	Y1	IP65	100x160x90mm		590.SEM3205	1
	6P	Y3	IP65	250x280x120mm		590.SEM3206	1
	8P	Y3	IP65	250x280x120mm		590.SEM3208	1
	1P+SN	Y1	IP65	100x160x90mm		590.SEM3202.SN	1
	3P+SN	Y1	IP65	100x160x90mm		590.SEM3205.SN	1
40A	2P	Y1	IP65	100x160x90mm		590.SEM4002	1
	3P	Y1	IP65	100x160x90mm		590.SEM4003	1
	3P+N	Y1	IP65	100x160x90mm		590.SEM4005	1
	6P	Y3	IP65	250x280x120mm		590.SEM4006	1
	8P	Y3	IP65	250x280x120mm		590.SEM4008	1
63A	1P+SN	Y1	IP65	100x160x90mm		590.SEM4002.SN	1
	3P+SN	Y1	IP65	100x160x90mm		590.SEM4005.SN	1
	3P	Y4	IP65	150x220x120mm		590.SEM6303	1
	3P+N	Y4	IP65	150x220x120mm		590.SEM6305	1
	6P	Y4	IP65	250x280x120mm		590.SEM6306	1
80A	8P	Y4	IP65	250x280x120mm		590.SEM6308	1
	3P+SN	Y4	IP65	150x220x120mm		590.SEM6305.SN	1
	3P	Y4	IP65	150x220x120mm		590.SEM8003	1
	3P+N	Y4	IP65	150x220x120mm		590.SEM8005	1
	6P	Y4	IP65	250x280x120mm		590.SEM8006	1
100A	8P	Y4	IP65	250x280x120mm		590.SEM8008	1
	3P+SN	Y4	IP65	150x220x120mm		590.SEM8005.SN	1
	3P	Y4	IP65	150x220x120mm		590.SEM10003	1
	3P+N	Y4	IP65	150x220x120mm		590.SEM10005	1
	6P	Y4	IP65	250x280x120mm		590.SEM10006	1
125A	8P	Y4	IP65	250x280x120mm		590.SEM10008	1
	3P+SN	Y4	IP65	150x220x120mm		590.SEM10005.SN	1
	3P	Y5	IP65	300x400x150mm		590.SEM12503	1
	3P+N	Y5	IP65	300x400x150mm		590.SEM12505	1
	6P	Y5	IP65	300x400x150mm		590.SEM12506	1
160A	8P	Y5	IP65	300x400x150mm		590.SEM12508	1
	3P+SN	Y5	IP65	300x400x150mm		590.SEM12505.SN	1
	3P	Y5	IP65	300x400x150mm		590.SEM16003	1
	3P+N	Y5	IP65	300x400x150mm		590.SEM16005	1
	6P	Y5	IP65	300x400x150mm		590.SEM16006	1
160A	8P	Y5	IP65	300x400x150mm		590.SEM16008	1
	3P+SN	Y5	IP65	300x400x150mm		590.SEM16005.SN	1

Handle padlockable in OFF position only (3 padlocks).
Blank sides.

■ FOR GENERAL USE - HIGH WIRING CAPACITY



Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	3P	Y1	IP65	150x160x90mm		590.SGE2003.W	1
	3P+N	Y1	IP65	150x160x90mm		590.SGE2005.W	1
32A	3P	Y1	IP65	150x160x90mm		590.SGE3203.W	1
	3P+N	Y1	IP65	150x160x90mm		590.SGE3205.W	1
40A	3P	Y1	IP65	150x160x90mm		590.SGE4003.W	1
	3P+N	Y1	IP65	150x160x90mm		590.SGE4005.W	1

Handle padlockable in OFF position only (3 padlocks).
Blank sides.

Type: GENERAL



SWITCH-DISCONNECTORS
ISOLATORS-INOX SERIES

Applications examples



Food industry



Chemical industry




Pharma industry



ISOLATORS-HR Series

ISOLATORS-HR (High Rating) is a complete range of switch-disconnectors with painted sheet steel enclosure with hinged door. The width of the enclosure allows the wiring of cables of large sections, necessary for high power applications and with long power lines, while the high electrical performance guarantees absolute resistance to short circuits caused by high currents.

 technical sheet p. 812

Technical information

Main characteristics



- | | |
|--|---|
| 01 Blank sides | 06 Cathoporesis painted metal enclosure |
| 02 Highly manoeuvrable handle | 07 Removable cable gland plate |
| 03 Door locking with handle in the ON position | 08 BOTTOM-BOTTOM version with busbar system for the connection of cables |
| 04 Handle padlockable in the OFF position | 09 Wall mounting via external brackets |
| 05 AC23 switch with the possibility of double auxiliary contact | 10 Reinforced stainless steel hinges |

■ FOR GENERAL USE - TOP/BOTTOM



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
100A	6P	K1	IP65	400x500x200mm	■	590.KGE10006	1
	8P	K1	IP65	400x500x200mm	■	590.KGE10008	1
125A	6P	K1	IP65	400x500x200mm	■	590.KGE12506	1
	8P	K1	IP65	400x500x200mm	■	590.KGE12508	1
160A	3P	K2	IP65	300x500x200mm	■	590.KGE16003	1
	3P+N	K2	IP65	300x500x200mm	■	590.KGE16005	1
	6P	K2	IP65	500x700x250mm	■	590.KGE16006	1
	8P	K2	IP65	500x700x250mm	■	590.KGE16008	1
	3P+SN	K2	IP65	300x500x200mm	■	590.KGE16005.SN	1
200A	3P	K2	IP65	300x500x200mm	■	590.KGE20003	1
	3P+N	K2	IP65	300x500x200mm	■	590.KGE20005	1
	6P	K2	IP65	600x800x300mm	■	590.KGE20006	1
	8P	K2	IP65	600x800x300mm	■	590.KGE20008	1
250A	3P+SN	K2	IP65	300x500x200mm	■	590.KGE20005.SN	1
	3P	K2	IP65	300x500x200mm	■	590.KGE25003	1
	3P+N	K2	IP65	300x500x200mm	■	590.KGE25005	1
	6P	K2	IP65	600x800x300mm	■	590.KGE25006	1
	8P	K2	IP65	600x800x300mm	■	590.KGE25008	1
315A	3P+SN	K2	IP65	300x500x200mm	■	590.KGE25005.SN	1
	3P	K3	IP65	400x600x200mm	■	590.KGE31503	1
	3P+N	K3	IP65	400x600x200mm	■	590.KGE31505	1
	6P	K3	IP65	800x800x300mm	■	590.KGE31506	1
	8P	K3	IP65	800x800x300mm	■	590.KGE31508	1
400A	3P+SN	K3	IP65	400x600x200mm	■	590.KGE31505.SN	1
	3P	K3	IP65	400x600x200mm	■	590.KGE40003	1
	3P+N	K3	IP65	400x600x200mm	■	590.KGE40005	1
	6P	K3	IP65	800x800x300mm	■	590.KGE40006	1
	8P	K3	IP65	800x800x300mm	■	590.KGE40008	1
500A	3P+SN	K3	IP65	400x600x200mm	■	590.KGE40005.SN	1
	3P	K3	IP65	500x700x250mm	■	590.KGE50003	1
	3P+N	K3	IP65	500x700x250mm	■	590.KGE50005	1
	6P	K3	IP65	800x800x300mm	■	590.KGE50006	1
	8P	K3	IP65	800x800x300mm	■	590.KGE50008	1
630A	3P+SN	K3	IP65	500x700x250mm	■	590.KGE50005.SN	1
	3P	K4	IP65	500x700x250mm	■	590.KGE63003	1
	3P+N	K4	IP65	500x700x250mm	■	590.KGE63005	1
	6P	K4	IP65	1000x1000x300mm	■	590.KGE63006	1
	8P	K4	IP65	1000x1000x300mm	■	590.KGE63008	1
800A	3P+SN	K4	IP65	500x700x250mm	■	590.KGE63005.SN	1
	3P	K5	IP65	600x1000x300mm	■	590.KGE80003	1
	3P+N	K5	IP65	600x1000x300mm	■	590.KGE80005	1
	3P+SN	K5	IP65	600x1000x300mm	■	590.KGE80005.SN	1
1000A	3P	K5	IP65	600x1000x300mm	■	590.KGE100003	1
	3P+N	K5	IP65	600x1000x300mm	■	590.KGE100005	1
	3P+SN	K5	IP65	600x1000x300mm	■	590.KGE100005.SN	1
1250A	3P	K5	IP65	600x1000x300mm	■	590.KGE125003	1
	3P+N	K5	IP65	600x1000x300mm	■	590.KGE125005	1
1600A	3P+SN	K5	IP65	600x1000x300mm	■	590.KGE125005.SN	1
	3P	K6	IP65	600x1000x300mm	■	590.KGE160003 ¹⁾	1
	3P+N	K6	IP65	600x1000x300mm	■	590.KGE160005 ¹⁾	1
	3P+SN	K6	IP65	600x1000x300mm	■	590.KGE160005.SN ¹⁾	1

Handle padlockable in OFF position only [3 padlocks].
 TOP/BOTTOM = Top/Bottom connection.
 Gland plate cable entry on bottom side.

¹⁾ Neutral pole 1250A. Full current neutral pole on request.



■ FOR GENERAL USE - BOTTOM/BOTTOM



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
160A	3P	K2	IP65	300x500x200mm		590.KGE16003B	1
	3P+N	K2	IP65	300x500x200mm		590.KGE16005B	1
	3P+SN	K2	IP65	300x500x200mm		590.KGE16005BSN	1
200A	3P	K2	IP65	300x500x200mm		590.KGE20003B	1
	3P+N	K2	IP65	300x500x200mm		590.KGE20005B	1
	3P+SN	K2	IP65	300x500x200mm		590.KGE20005BSN	1
250A	3P	K2	IP65	300x500x200mm		590.KGE25003B	1
	3P+N	K2	IP65	300x500x200mm		590.KGE25005B	1
	3P+SN	K2	IP65	300x500x200mm		590.KGE25005BSN	1
315A	3P	K3	IP65	400x600x200mm		590.KGE31503B	1
	3P+N	K3	IP65	400x600x200mm		590.KGE31505B	1
	3P+SN	K3	IP65	400x600x200mm		590.KGE31505BSN	1
400A	3P	K3	IP65	400x600x200mm		590.KGE40003B	1
	3P+N	K3	IP65	400x600x200mm		590.KGE40005B	1
	3P+SN	K3	IP65	400x600x200mm		590.KGE40005BSN	1
500A	3P	K3	IP65	500x700x250mm		590.KGE50003B	1
	3P+N	K3	IP65	500x700x250mm		590.KGE50005B	1
	3P+SN	K3	IP65	500x700x250mm		590.KGE50005BSN	1
630A	3P	K4	IP65	800x800x300mm		590.KGE63003B	1
	3P+N	K4	IP65	800x800x300mm		590.KGE63005B	1
	3P+SN	K4	IP65	800x800x300mm		590.KGE63005BSN	1
800A	3P	K5	IP65	800x800x300mm		590.KGE80003B	1
	3P+N	K5	IP65	800x800x300mm		590.KGE80005B	1
	3P+SN	K5	IP65	800x800x300mm		590.KGE80005BSN	1
1000A	3P	K5	IP65	1000x1000x300mm		590.KGE100003B	1
	3P+N	K5	IP65	1000x1000x300mm		590.KGE100005B	1
	3P+SN	K5	IP65	1000x1000x300mm		590.KGE100005BSN	1
1250A	3P	K5	IP65	1000x1000x300mm		590.KGE125003B	1
	3P+N	K5	IP65	1000x1000x300mm		590.KGE125005B	1
	3P+SN	K5	IP65	1000x1000x300mm		590.KGE125005BSN	1
1600A	3P	K6	IP65	1000x1000x300mm		590.KGE160003B ¹⁾	1
	3P+N	K6	IP65	1000x1000x300mm		590.KGE160005B ¹⁾	1
	3P+SN	K6	IP65	1000x1000x300mm		590.KGE160005BSN ¹⁾	1

Handle padlockable in OFF position only (3 padlocks).

Gland plate cable entry on bottom side.

BOTTOM/BOTTOM = Bottom/Bottom connection with busbar.

¹⁾ Neutral pole 1250A. Full current neutral pole on request.

■ FOR EMERGENCY USE - TOP/BOTTOM



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
100A	6P	K1	IP65	400x500x200mm		590.KEM10006	1
	8P	K1	IP65	400x500x200mm		590.KEM10008	1
125A	6P	K1	IP65	400x500x200mm		590.KEM12506	1
	8P	K1	IP65	400x500x200mm		590.KEM12508	1
160A	3P	K2	IP65	300x500x200mm		590.KEM16003	1
	3P+N	K2	IP65	300x500x200mm		590.KEM16005	1
	6P	K2	IP65	500x700x250mm		590.KEM16006	1
	8P	K2	IP65	500x700x250mm		590.KEM16008	1
	3P+SN	K2	IP65	300x500x200mm		590.KEM16005.SN	1
	3P	K2	IP65	300x500x200mm		590.KEM20003	1
200A	3P+N	K2	IP65	300x500x200mm		590.KEM20005	1
	6P	K2	IP65	600x800x300mm		590.KEM20006	1
	8P	K2	IP65	600x800x300mm		590.KEM20008	1
	3P+SN	K2	IP65	300x500x200mm		590.KEM20005.SN	1
	3P	K2	IP65	300x500x200mm		590.KEM25003	1
	3P+N	K2	IP65	300x500x200mm		590.KEM25005	1
250A	6P	K2	IP65	600x800x300mm		590.KEM25006	1
	8P	K2	IP65	600x800x300mm		590.KEM25008	1
	3P+SN	K2	IP65	300x500x200mm		590.KEM25005.SN	1
315A	3P	K3	IP65	400x600x200mm		590.KEM31503	1
	3P+N	K3	IP65	400x600x200mm		590.KEM31505	1
	6P	K3	IP65	800x800x300mm		590.KEM31506	1
	8P	K3	IP65	800x800x300mm		590.KEM31508	1
	3P+SN	K3	IP65	400x600x200mm		590.KEM31505.SN	1
	3P	K3	IP65	400x600x200mm		590.KEM40003	1
400A	3P+N	K3	IP65	400x600x200mm		590.KEM40005	1
	6P	K3	IP65	800x800x300mm		590.KEM40006	1
	8P	K3	IP65	800x800x300mm		590.KEM40008	1
500A	3P+SN	K3	IP65	400x600x200mm		590.KEM40005.SN	1
	3P	K3	IP65	500x700x250mm		590.KEM50003	1
	3P+N	K3	IP65	500x700x250mm		590.KEM50005	1
	6P	K3	IP65	800x800x300mm		590.KEM50006	1
	8P	K3	IP65	800x800x300mm		590.KEM50008	1
	3P+SN	K3	IP65	500x700x250mm		590.KEM50005.SN	1
630A	3P	K4	IP65	500x700x250mm		590.KEM63003	1
	3P+N	K4	IP65	500x700x250mm		590.KEM63005	1
	6P	K4	IP65	1000x1000x300mm		590.KEM63006	1
800A	8P	K4	IP65	1000x1000x300mm		590.KEM63008	1
	3P+SN	K4	IP65	500x700x250mm		590.KEM63005.SN	1
	3P	K5	IP65	600x1000x300mm		590.KEM80003	1
	3P+N	K5	IP65	600x1000x300mm		590.KEM80005	1
	3P+SN	K5	IP65	600x1000x300mm		590.KEM80005.SN	1
	3P	K5	IP65	600x1000x300mm		590.KEM100003	1
1000A	3P+N	K5	IP65	600x1000x300mm		590.KEM100005	1
	3P+SN	K5	IP65	600x1000x300mm		590.KEM100005.SN	1
1250A	3P	K5	IP65	600x1000x300mm		590.KEM125003	1
	3P+N	K5	IP65	600x1000x300mm		590.KEM125005	1
	3P+SN	K5	IP65	600x1000x300mm		590.KEM125005.SN	1
1600A	3P	K6	IP65	600x1000x300mm		590.KEM160003 ¹⁾	1
	3P+N	K6	IP65	600x1000x300mm		590.KEM160005 ¹⁾	1
	3P+SN	K6	IP65	600x1000x300mm		590.KEM160005.SN ¹⁾	1

Handle padlockable in OFF position only (3 padlocks).
 TOP/BOTTOM = Top/Bottom connection.
 Gland plate cable entry on bottom side.


¹⁾ Neutral pole 1250A. Full current neutral pole on request.





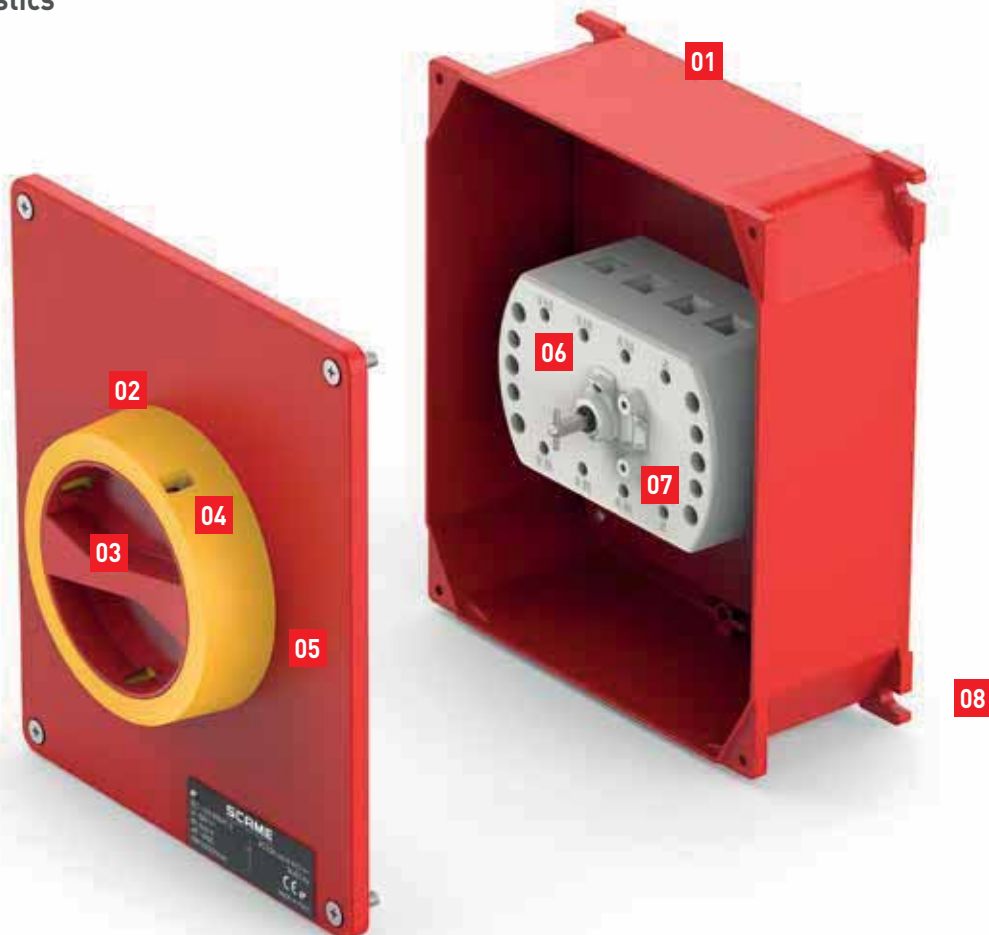
ISOLATORS-FR Series

ISOLATORS-FR is a range of fire rated switch-disconnectors able to withstand, depending on the version, a temperature of 400°C (F400) or 200°C (F200) for 120 minutes, guaranteeing the operation of the smoke extraction systems as required by the EN 12101-3 (2002) Standard. The enclosure, in die-cast aluminum for sizes from 20 to 160A or in sheet metal with hinged door for versions from 200 to 630A, is equipped with a door lock mechanism in the ON position while the handles can be padlocked in the ON and OFF position.

 technical sheet p. 802

Technical information

Main characteristics F400



- 01** Blank sides
- 02** High visibility ergonomic XXL handle
- 03** Handle padlockable in the ON and OFF position (both for general and emergency use)
- 04** Door locking with handle in the ON position
- 05** Die-cast aluminium epoxy polyurethane painted enclosure with high resistance to atmospheric agents. Sheet steel versions cataphoresis painted
- 06** Switch made entirely of thermosetting GRP material with high heat resistance
- 07** AC23 switch with the possibility of double auxiliary contact
- 08** Slotted external fixing points

Application examples



Basement parking



Emergency evacuation exit



■ F200 >> ALUMINIUM VERSION - 20A÷160A >> FOR GENERAL USE



Type: GENERAL

Current	Poles	IP	Dimensions	Colour	Code	
16A	6P	IP66	150x210x107mm		590.F2GE1606	1
	2P	IP66	105x150x82mm		590.F2GE2002	1
20A	3P	IP66	105x150x82mm		590.F2GE2003	1
	3P+N	IP66	105x150x82mm		590.F2GE2005	1
25A	6P	IP66	150x210x107mm		590.F2GE2506	1
	2P	IP66	105x150x82mm		590.F2GE3202	1
32A	3P	IP66	105x150x82mm		590.F2GE3203	1
	3P+N	IP66	105x150x82mm		590.F2GE3205	1
	6P	IP66	150x210x107mm		590.F2GE3206	1
40A	2P	IP66	105x150x82mm		590.F2GE4002	1
	3P	IP66	105x150x82mm		590.F2GE4003	1
	3P+N	IP66	105x150x82mm		590.F2GE4005	1
63A	6P	IP66	150x210x107mm		590.F2GE4006	1
	2P	IP66	150x210x107mm		590.F2GE6302	1
	3P	IP66	150x210x107mm		590.F2GE6303	1
	3P+N	IP66	150x210x107mm		590.F2GE6305	1
80A	6P	IP65	264x315x122mm		590.F2GE6306	1
	2P	IP66	150x210x107mm		590.F2GE8002	1
	3P	IP66	150x210x107mm		590.F2GE8003	1
	3P+N	IP66	150x210x107mm		590.F2GE8005	1
100A	6P	IP65	264x315x122mm		590.F2GE8006	1
	3P	IP66	150x210x107mm		590.F2GE10003	1
	3P+N	IP66	150x210x107mm		590.F2GE10005	1
	6P	IP65	264x315x122mm		590.F2GE10006	1
125A	3P	IP65	264x315x122mm		590.F2GE12503	1
	3P+N	IP65	264x315x122mm		590.F2GE12505	1
	6P	IP65	315x410x150mm		590.F2GE12506 ¹⁾	1
160A	3P	IP65	315x410x150mm		590.F2GE16003	1
	3P+N	IP65	315x410x150mm		590.F2GE16005	1
	6P	IP65	315x410x150mm		590.F2GE16006 ¹⁾	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
Blank sides.

¹⁾ Gland plate cable entry on bottom side.



SWITCHGEARS

Switch-disconnectors

■ F200 >> ALUMINIUM VERSION - 20A÷160A >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	IP	Dimensions	Colour	Code	
16A	6P	IP66	150x210x107mm		590.F2EM1606	1
	2P	IP66	105x150x82mm		590.F2EM2002	1
20A	3P	IP66	105x150x82mm		590.F2EM2003	1
	3P+N	IP66	105x150x82mm		590.F2EM2005	1
25A	6P	IP66	150x210x107mm		590.F2EM2506	1
	2P	IP66	105x150x82mm		590.F2EM3202	1
32A	3P	IP66	105x150x82mm		590.F2EM3203	1
	3P+N	IP66	105x150x82mm		590.F2EM3205	1
	6P	IP66	150x210x107mm		590.F2EM3206	1
40A	2P	IP66	105x150x82mm		590.F2EM4002	1
	3P	IP66	105x150x82mm		590.F2EM4003	1
	3P+N	IP66	105x150x82mm		590.F2EM4005	1
	6P	IP66	150x210x107mm		590.F2EM4006	1
63A	2P	IP66	150x210x107mm		590.F2EM6302	1
	3P	IP66	150x210x107mm		590.F2EM6303	1
	3P+N	IP66	150x210x107mm		590.F2EM6305	1
80A	6P	IP65	264x315x122mm		590.F2EM6306	1
	2P	IP66	150x210x107mm		590.F2EM8002	1
	3P	IP66	150x210x107mm		590.F2EM8003	1
	3P+N	IP66	150x210x107mm		590.F2EM8005	1
100A	6P	IP65	264x315x122mm		590.F2EM8006	1
	3P	IP66	150x210x107mm		590.F2EM10003	1
	3P+N	IP66	150x210x107mm		590.F2EM10005	1
	6P	IP65	264x315x122mm		590.F2EM10006	1
125A	3P	IP65	264x315x122mm		590.F2EM12503	1
	3P+N	IP65	264x315x122mm		590.F2EM12505	1
	6P	IP65	315x410x150mm		590.F2EM12506 ¹⁾	1
160A	3P	IP65	315x410x150mm		590.F2EM16003	1
	3P+N	IP65	315x410x150mm		590.F2EM16005	1
	6P	IP65	315x410x150mm		590.F2EM16006 ¹⁾	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
Blank sides.

¹⁾Gland plate cable entry on bottom side.

■ F200 >> METAL VERSION (HR) >> FOR GENERAL USE



Type: GENERAL

Current	Poles	IP	Dimensions	Colour	Code	
200A	3P	IP65	300x500x200mm		590.F2GE20003	1
	3P+N	IP65	300x500x200mm		590.F2GE20005	1
	6P	IP65	600x800x300mm		590.F2GE20006	1
250A	3P	IP65	300x500x200mm		590.F2GE25003	1
	3P+N	IP65	300x500x200mm		590.F2GE25005	1
	6P	IP65	600x800x300mm		590.F2GE25006	1
315A	3P	IP65	400x600x200mm		590.F2GE31503	1
	3P+N	IP65	400x600x200mm		590.F2GE31505	1
	6P	IP65	800x800x300mm		590.F2GE31506	1
400A	3P	IP65	400x600x200mm		590.F2GE40003	1
	3P+N	IP65	400x600x200mm		590.F2GE40005	1
	6P	IP65	800x800x300mm		590.F2GE40006	1
500A	3P	IP65	500x700x250mm		590.F2GE50003	1
	3P+N	IP65	500x700x250mm		590.F2GE50005	1
	6P	IP65	800x800x300mm		590.F2GE50006	1
630A	3P	IP65	500x700x250mm		590.F2GE63003	1
	3P+N	IP65	500x700x250mm		590.F2GE63005	1
	6P	IP65	1000x1000x300mm		590.F2GE63006	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
Blank sides.
Gland plate cable entry on bottom side.

■ F200 >> METAL VERSION (HR) >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	IP	Dimensions	Colour	Code	
200A	3P	IP65	300x500x200mm		590.F2EM20003	1
	3P+N	IP65	300x500x200mm		590.F2EM20005	1
	6P	IP65	600x800x300mm		590.F2EM20006	1
250A	3P	IP65	300x500x200mm		590.F2EM25003	1
	3P+N	IP65	300x500x200mm		590.F2EM25005	1
	6P	IP65	600x800x300mm		590.F2EM25006	1
315A	3P	IP65	400x600x200mm		590.F2EM31503	1
	3P+N	IP65	400x600x200mm		590.F2EM31505	1
	6P	IP65	800x800x300mm		590.F2EM31506	1
400A	3P	IP65	400x600x200mm		590.F2EM40003	1
	3P+N	IP65	400x600x200mm		590.F2EM40005	1
	6P	IP65	800x800x300mm		590.F2EM40006	1
500A	3P	IP65	500x700x250mm		590.F2EM50003	1
	3P+N	IP65	500x700x250mm		590.F2EM50005	1
	6P	IP65	800x800x300mm		590.F2EM50006	1
630A	3P	IP65	500x700x250mm		590.F2EM63003	1
	3P+N	IP65	500x700x250mm		590.F2EM63005	1
	6P	IP65	1000x1000x300mm		590.F2EM63006	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
Blank sides.
Gland plate cable entry on bottom side.


SWITCHGEARS

Switch-disconnectors

■ F400 >> ALUMINIUM VERSION - 20A÷160A >> FOR GENERAL USE



Type: GENERAL

Current	Poles	IP	Dimensions	Colour	Code	
20A	2P	IP65	192x168x80mm	■	590.FGE2002	1
	3P	IP65	192x168x80mm	■	590.FGE2003	1
	3P+N	IP65	192x168x80mm	■	590.FGE2005	1
32A	6P	IP65	253x217x93mm	■	590.FGE2006	1
	2P	IP65	192x168x80mm	■	590.FGE3202	1
	3P	IP65	192x168x80mm	■	590.FGE3203	1
40A	3P+N	IP65	192x168x80mm	■	590.FGE3205	1
	6P	IP65	253x217x93mm	■	590.FGE3206	1
	2P	IP65	192x168x80mm	■	590.FGE4002	1
63A	3P	IP65	192x168x80mm	■	590.FGE4003	1
	3P+N	IP65	192x168x80mm	■	590.FGE4005	1
	6P	IP65	253x217x93mm	■	590.FGE4006	1
80A	2P	IP65	253x217x93mm	■	590.FGE6302	1
	3P	IP65	253x217x93mm	■	590.FGE6303	1
	3P+N	IP65	253x217x93mm	■	590.FGE6305	1
100A	6P	IP65	314x264x122mm	■	590.FGE6306	1
	2P	IP65	253x217x93mm	■	590.FGE8002	1
	3P	IP65	253x217x93mm	■	590.FGE8003	1
125A	3P+N	IP65	253x217x93mm	■	590.FGE8005	1
	6P	IP65	314x264x122mm	■	590.FGE8006	1
	2P	IP65	253x217x93mm	■	590.FGE10002	1
160A	3P	IP65	253x217x93mm	■	590.FGE10003	1
	3P+N	IP65	253x217x93mm	■	590.FGE10005	1
	6P	IP65	314x264x122mm	■	590.FGE10006	1
160A	3P	IP65	315x410x150mm	■	590.FGE12503	1
	3P+N	IP65	315x410x150mm	■	590.FGE12505	1
	6P	IP65	500x400x200mm	■	590.FGE12506 ¹⁾	1
160A	3P	IP65	315x410x150mm	■	590.FGE16003	1
	3P+N	IP65	315x410x150mm	■	590.FGE16005	1
160A	6P	IP65	500x400x200mm	■	590.FGE16006 ¹⁾	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
Blank sides.

¹⁾Gland plate cable entry on bottom side.

■ F400 >> ALUMINIUM VERSION - 20A-160A >> FOR EMERGENCY USE



SWITCH-DISCONNECTORS
ISOLATORS-FR SERIES



Type: EMERGENCY

Current	Poles	IP	Dimensions	Colour	Code	
20A	2P	IP65	192x168x80mm		590.FEM2002	1
	3P	IP65	192x168x80mm		590.FEM2003	1
	3P+N	IP65	192x168x80mm		590.FEM2005	1
32A	6P	IP65	253x217x93mm		590.FEM2006	1
	2P	IP65	192x168x80mm		590.FEM3202	1
	3P	IP65	192x168x80mm		590.FEM3203	1
	3P+N	IP65	192x168x80mm		590.FEM3205	1
40A	6P	IP65	253x217x93mm		590.FEM3206	1
	2P	IP65	192x168x80mm		590.FEM4002	1
	3P	IP65	192x168x80mm		590.FEM4003	1
	3P+N	IP65	192x168x80mm		590.FEM4005	1
63A	6P	IP65	253x217x93mm		590.FEM4006	1
	2P	IP65	253x217x93mm		590.FEM6302	1
	3P	IP65	253x217x93mm		590.FEM6303	1
	3P+N	IP65	253x217x93mm		590.FEM6305	1
80A	6P	IP65	314x264x122mm		590.FEM6306	1
	2P	IP65	253x217x93mm		590.FEM8002	1
	3P	IP65	253x217x93mm		590.FEM8003	1
	3P+N	IP65	253x217x93mm		590.FEM8005	1
100A	6P	IP65	314x264x122mm		590.FEM8006	1
	2P	IP65	253x217x93mm		590.FEM10002	1
	3P	IP65	253x217x93mm		590.FEM10003	1
	3P+N	IP65	253x217x93mm		590.FEM10005	1
125A	6P	IP65	314x264x122mm		590.FEM10006	1
	3P	IP65	315x410x150mm		590.FEM12503	1
	3P+N	IP65	315x410x150mm		590.FEM12505	1
160A	6P	IP65	500x400x200mm		590.FEM12506 ¹⁾	1
	3P	IP65	315x410x150mm		590.FEM16003	1
	3P+N	IP65	315x410x150mm		590.FEM16005	1
	6P	IP65	500x400x200mm		590.FEM16006 ¹⁾	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
Blank sides.

¹⁾Gland plate cable entry on bottom side.

SWITCHGEARS

Switch-disconnectors

F400 >> ALUMINIUM VERSION - 20A÷160A - WITH AUXILIARY CONTACTS >> FOR GENERAL USE



Type: GENERAL

Current	Poles	IP	Dimensions	Colour	Code	
20A	2P	IP65	192x168x80mm		590.FGE2002.U	1
	3P	IP65	192x168x80mm		590.FGE2003.U	1
	3P+N	IP65	192x168x80mm		590.FGE2005.U	1
32A	6P	IP65	253x217x93mm		590.FGE2006.U	1
	2P	IP65	192x168x80mm		590.FGE3202.U	1
	3P	IP65	192x168x80mm		590.FGE3203.U	1
40A	3P+N	IP65	192x168x80mm		590.FGE3205.U	1
	6P	IP65	253x217x93mm		590.FGE3206.U	1
	2P	IP65	192x168x80mm		590.FGE4002.U	1
63A	3P	IP65	192x168x80mm		590.FGE4003.U	1
	3P+N	IP65	192x168x80mm		590.FGE4005.U	1
	6P	IP65	253x217x93mm		590.FGE4006.U	1
80A	2P	IP65	253x217x93mm		590.FGE6302.U	1
	3P	IP65	253x217x93mm		590.FGE6303.U	1
	3P+N	IP65	253x217x93mm		590.FGE6305.U	1
100A	6P	IP65	314x264x122mm		590.FGE6306.U	1
	2P	IP65	253x217x93mm		590.FGE8002.U	1
	3P	IP65	253x217x93mm		590.FGE8003.U	1
125A	3P+N	IP65	253x217x93mm		590.FGE8005.U	1
	6P	IP65	314x264x122mm		590.FGE8006.U	1
	2P	IP65	253x217x93mm		590.FGE10002.U	1
160A	3P	IP65	253x217x93mm		590.FGE10003.U	1
	3P+N	IP65	253x217x93mm		590.FGE10005.U	1
	6P	IP65	314x264x122mm		590.FGE10006.U	1
	3P	IP65	315x410x150mm		590.FGE12503.U	1
	3P+N	IP65	315x410x150mm		590.FGE12505.U	1
	6P	IP65	500x400x200mm		590.FGE12506.U ¹⁾	1
	3P	IP65	315x410x150mm		590.FGE16003.U	1
	3P+N	IP65	315x410x150mm		590.FGE16005.U	1
	6P	IP65	500x400x200mm		590.FGE16006.U ¹⁾	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

Blank sides.

Equipped with NO/NC auxiliary contacts.

¹⁾ Gland plate cable entry on bottom side.

■ F400 >> ALUMINIUM VERSION - 20A-160A - WITH AUXILIARY CONTACTS >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	IP	Dimensions	Colour	Code	
20A	2P	IP65	192x168x80mm		590.FEM2002.U	1
	3P	IP65	192x168x80mm		590.FEM2003.U	1
	3P+N	IP65	192x168x80mm		590.FEM2005.U	1
32A	6P	IP65	253x217x93mm		590.FEM2006.U	1
	2P	IP65	192x168x80mm		590.FEM3202.U	1
	3P	IP65	192x168x80mm		590.FEM3203.U	1
40A	3P+N	IP65	192x168x80mm		590.FEM3205.U	1
	6P	IP65	253x217x93mm		590.FEM3206.U	1
	2P	IP65	192x168x80mm		590.FEM4002.U	1
63A	3P	IP65	192x168x80mm		590.FEM4003.U	1
	3P+N	IP65	192x168x80mm		590.FEM4005.U	1
	6P	IP65	253x217x93mm		590.FEM4006.U	1
80A	2P	IP65	253x217x93mm		590.FEM6302.U	1
	3P	IP65	253x217x93mm		590.FEM6303.U	1
	3P+N	IP65	253x217x93mm		590.FEM6305.U	1
100A	6P	IP65	314x264x122mm		590.FEM6306.U	1
	2P	IP65	253x217x93mm		590.FEM8002.U	1
	3P	IP65	253x217x93mm		590.FEM8003.U	1
125A	3P+N	IP65	253x217x93mm		590.FEM8005.U	1
	6P	IP65	314x264x122mm		590.FEM8006.U	1
	2P	IP65	253x217x93mm		590.FEM10002.U	1
160A	3P	IP65	253x217x93mm		590.FEM10003.U	1
	3P+N	IP65	253x217x93mm		590.FEM10005.U	1
	6P	IP65	314x264x122mm		590.FEM10006.U	1
160A	3P	IP65	315x410x150mm		590.FEM12503.U	1
	3P+N	IP65	315x410x150mm		590.FEM12505.U	1
	6P	IP65	500x400x200mm		590.FEM12506.U ¹⁾	1
160A	3P	IP65	315x410x150mm		590.FEM16003.U	1
	3P+N	IP65	315x410x150mm		590.FEM16005.U	1
	6P	IP65	500x400x200mm		590.FEM16006.U ¹⁾	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

Blank sides.

Equipped with NO/NC auxiliary contacts.

¹⁾ Gland plate cable entry on bottom side.

SWITCHGEARS

Switch-disconnectors

■ F400 >> METAL VERSION (HR) >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	IP	Dimensions	Colour	Code	
200A	3P	IP65	500x700x200mm		590.FEM20003	1
	3P+N	IP65	500x700x200mm		590.FEM20005	1
	6P	IP65	800x600x300mm		590.FEM20006	1
250A	3P	IP65	500x700x200mm		590.FEM25003	1
	3P+N	IP65	500x700x200mm		590.FEM25005	1
	6P	IP65	800x600x300mm		590.FEM25006	1
315A	3P	IP65	500x700x250mm		590.FEM31503	1
	3P+N	IP65	500x700x250mm		590.FEM31505	1
	6P	IP65	800x800x300mm		590.FEM31506	1
400A	3P	IP65	500x700x250mm		590.FEM40003	1
	3P+N	IP65	500x700x250mm		590.FEM40005	1
	6P	IP65	800x800x300mm		590.FEM40006	1
630A	3P	IP65	800x800x300mm		590.FEM63003	1
	3P+N	IP65	800x800x300mm		590.FEM63005	1
	6P	IP65	800x1000x300mm		590.FEM63006	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
Gland plate cable entry on bottom side.

■ F400 >> METAL VERSION (HR) >> FOR GENERAL USE



Type: GENERAL

Current	Poles	IP	Dimensions	Colour	Code	
200A	3P	IP65	500x700x200mm		590.FGE20003	1
	3P+N	IP65	500x700x200mm		590.FGE20005	1
	6P	IP65	800x600x300mm		590.FGE20006	1
250A	3P	IP65	500x700x200mm		590.FGE25003	1
	3P+N	IP65	500x700x200mm		590.FGE25005	1
	6P	IP65	800x600x300mm		590.FGE25006	1
315A	3P	IP65	500x700x250mm		590.FGE31503	1
	3P+N	IP65	500x700x250mm		590.FGE31505	1
	6P	IP65	800x800x300mm		590.FGE31506	1
400A	3P	IP65	500x700x250mm		590.FGE40003	1
	3P+N	IP65	500x700x250mm		590.FGE40005	1
	6P	IP65	800x800x300mm		590.FGE40006	1
630A	3P	IP65	800x800x300mm		590.FGE63003	1
	3P+N	IP65	800x800x300mm		590.FGE63005	1
	6P	IP65	800x1000x300mm		590.FGE63006	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
Gland plate cable entry on bottom side.

■ F400 >> METAL VERSION (HR) - WITH AUXILIARY CONTACTS >> FOR GENERAL USE



Type: GENERAL

Current	Poles	IP	Dimensions	Colour	Code	
200A	3P	IP65	500x700x200mm		590.FGE20003.U	1
	3P+N	IP65	500x700x200mm		590.FGE20005.U	1
	6P	IP65	800x600x300mm		590.FGE20006.U	1
250A	3P	IP65	500x700x200mm		590.FGE25003.U	1
	3P+N	IP65	500x700x200mm		590.FGE25005.U	1
	6P	IP65	800x600x300mm		590.FGE25006.U	1
315A	3P	IP65	500x700x250mm		590.FGE31503.U	1
	3P+N	IP65	500x700x250mm		590.FGE31505.U	1
	6P	IP65	800x800x300mm		590.FGE31506.U	1
400A	3P	IP65	500x700x250mm		590.FGE40003.U	1
	3P+N	IP65	500x700x250mm		590.FGE40005.U	1
	6P	IP65	800x800x300mm		590.FGE40006.U	1
630A	3P	IP65	800x800x300mm		590.FGE63003.U	1
	3P+N	IP65	800x800x300mm		590.FGE63005.U	1
	6P	IP65	800x1000x300mm		590.FGE63006.U	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
 Gland plate cable entry on bottom side.
 Equipped with NO/NC auxiliary contacts.

■ F400 >> METAL VERSION (HR) - WITH AUXILIARY CONTACTS >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	IP	Dimensions	Colour	Code	
200A	3P	IP65	500x700x200mm		590.FEM20003.U	1
	3P+N	IP65	500x700x200mm		590.FEM20005.U	1
	6P	IP65	800x600x300mm		590.FEM20006.U	1
250A	3P	IP65	500x700x200mm		590.FEM25003.U	1
	3P+N	IP65	500x700x200mm		590.FEM25005.U	1
	6P	IP65	800x600x300mm		590.FEM25006.U	1
315A	3P	IP65	500x700x250mm		590.FEM31503.U	1
	3P+N	IP65	500x700x250mm		590.FEM31505.U	1
	6P	IP65	800x800x300mm		590.FEM31506.U	1
400A	3P	IP65	500x700x250mm		590.FEM40003.U	1
	3P+N	IP65	500x700x250mm		590.FEM40005.U	1
	6P	IP65	800x800x300mm		590.FEM40006.U	1
630A	3P	IP65	800x800x300mm		590.FEM63003.U	1
	3P+N	IP65	800x800x300mm		590.FEM63005.U	1
	6P	IP65	800x1000x300mm		590.FEM63006.U	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.
 Gland plate cable entry on bottom side.
 Equipped with NO/NC auxiliary contacts.





ISOLATORS-PH Series

ISOLATORS-PH is a complete range of switch-disconnectors with thermoplastic enclosure and an exclusively black knob. They are used in photovoltaic applications, where the IEC 60364-7-712 standard prescribes the need to isolate the photovoltaic panel from the rest of the system.

This is made possible by disconnectors that operate in DC current, thus ensuring higher performance than those in AC alternating current.

technical sheet p. 826

■ FOR GENERAL USE - DC



Current	Poles	Switch size	IP	Dimensions	Colour	Code	
15A	DC	D3	IP65	105x150x127mm		590.DCGE0815 ^{1) 3)}	1/10
16A	DC	D1	IP66/IP69	110x150x87mm		590.DCGE0416 ^{3) 5)}	1/12
20A	DC	D3	IP65	105x150x127mm		590.DCGE0820 ^{1) 3)}	1/10
25A	DC	D3	IP66/IP69	160x220x115mm		590.DCGE0825 ^{3) 5)}	1/5
30A	DC	D3	IP66/IP69	160x220x115mm		590.DCGE0830 ^{3) 5)}	1/5
40A	DC	D5	IP55	228x308x173mm		590.DCGE0840 ^{2) 4)}	1

¹⁾ Blank side with drilling point marks.

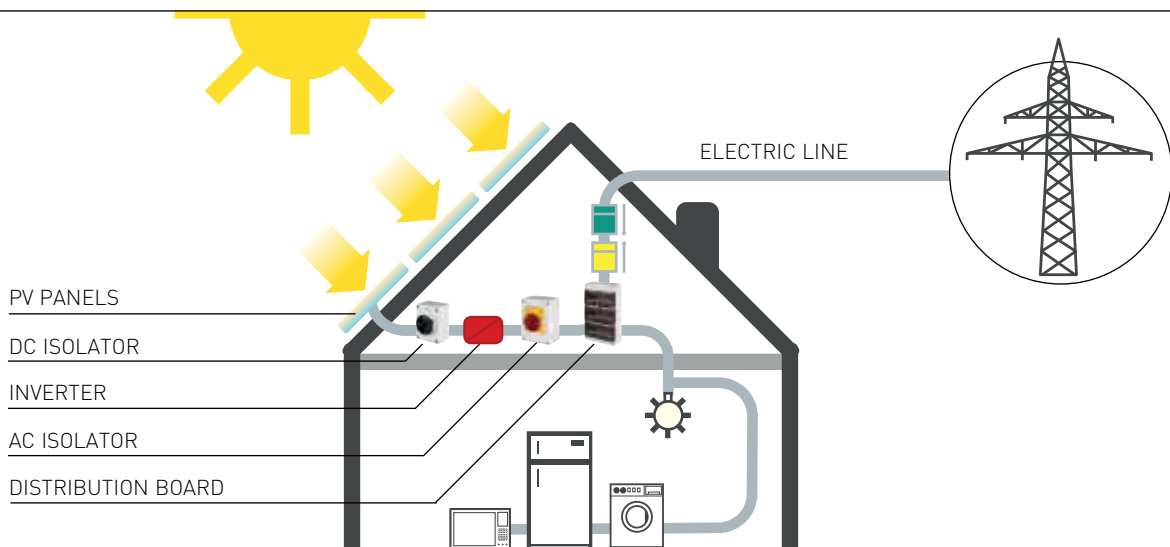
²⁾ Handle padlockable in OFF position only (3 padlocks).

³⁾ Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

⁴⁾ Blank sides.

⁵⁾ Break-through cable entries.

Type: GENERAL



Accessories

Door locking kit, auxiliary contacts and terminal cover are useful additions to ISOLATORS Series of switch-disconnectors.



CONTACT BLOCKS



Description	Colour	Switch size	Notes	Code	
NC CONTACT		F1 Y1 D1		590.PL004001 ^{1) 2)}	10/60
		Y2		590.PL004003 ^{1) 2)}	10
NO CONTACT		F1 Y1 D1		590.PL004002 ^{1) 3)}	10/60
		Y2		590.PL004004 ^{1) 3)}	10
AUXILIARY CONTACT 1NO+1NC		KF1 KF2 K1 K2		590.PL006011 ⁴⁾	10
		KF3 KF5 K3 K5 K6		590.PL006012 ⁴⁾	10
		KF4 K4		590.PL006013 ⁴⁾	10
CHANGE OVER CONTACT		F1 Y3 Y4 Y5 C1 C2 C3 D3 D5	15A 250V~ - 10A 415V~	590.PL005 ⁴⁾	50
		Y1	15A 250V~ - 10A 415V~	590.PL004005 ⁴⁾	10
		Y2	15A 250V~ - 10A 415V~	590.PL004006 ⁴⁾	10
AUXILIARY CONTACT 2NA+2NC		FR1 FR2 FR3	5A 125V~ - 3A 250V~	590.PL004008 ⁴⁾	5
		KF1 KF2 K1 K2		590.PL006021 ⁴⁾	10
		KF3 KF5 K3 K5 K6		590.PL006022 ⁴⁾	10
		KF4 K4		590.PL006023 ⁴⁾	10

¹⁾ Snap catch.

²⁾ NC=Normally closed.

³⁾ NO=Normally open.

⁴⁾ Break before main contacts.



FUSE SWITCH-DISCONNECTORS

ISOLATORS-TP SERIES

p. 352

Enclosed fuse switch-disconnectors in thermoplastic enclosure



ISOLATORS-AL SERIES

p. 354

Enclosed fuse switch-disconnectors in die-cast aluminium enclosure



ISOLATORS-HR SERIES

p. 355

Enclosed fuse switch-disconnectors in metal enclosure with hinged door



ACCESSORIES

p. 358

Installation accessories






ISOLATORS-TP Series

ISOLATORS-TP is a complete range of fuse switch-disconnectors with highly resistant thermoplastic enclosure and is suitable for most industrial and tertiary applications, thanks to the high degree of protection IP55.

The high-visibility knob ensures an always optimal grip.

The large internal wiring space ensures easy wiring operations.






























The fuse switch-disconnectors are a compact solution for protection against overloads and short circuits, which adds to the characteristics of disconnection and operation under load.

 technical sheet p. 836

■ FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
16A	2P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF1602 ²⁾	1
	3P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF1603 ²⁾	1
	4P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF1604 ²⁾	1
	3P+N	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF1605 ²⁾	1
32A	2P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF3202 ²⁾	1
	3P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF3203 ²⁾	1
	4P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF3204 ²⁾	1
	3P+N	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF3205 ²⁾	1
63A	3P	KF1	DIN-NH	IP55	300x380x170mm		590.GED6303 ¹⁾	1
	3P	KF1	BS	IP55	300x380x170mm		590.GEB6303 ¹⁾	1
	3P+N	KF1	DIN-NH	IP55	300x380x170mm		590.GED6305 ¹⁾	1
	3P+N	KF1	BS	IP55	300x380x170mm		590.GEB6305 ¹⁾	1
80A	3P	KF1	DIN-NH	IP55	300x380x170mm		590.GED8003 ¹⁾	1
	3P	KF1	BS	IP55	300x380x170mm		590.GEB8003 ¹⁾	1
	3P+N	KF1	DIN-NH	IP55	300x380x170mm		590.GED8005 ¹⁾	1
	3P+N	KF1	BS	IP55	300x380x170mm		590.GEB8005 ¹⁾	1
100A	3P	KF2	DIN-NH	IP55	370x450x180mm		590.GED10003 ¹⁾	1
	3P	KF2	BS	IP55	370x450x180mm		590.GEB10003 ¹⁾	1
	3P+N	KF2	DIN-NH	IP55	370x450x180mm		590.GED10005 ¹⁾	1
	3P+N	KF2	BS	IP55	370x450x180mm		590.GEB10005 ¹⁾	1
125A	3P	KF2	DIN-NH	IP55	370x450x180mm		590.GED12503 ¹⁾	1
	3P	KF2	BS	IP55	370x450x180mm		590.GEB12503 ¹⁾	1
	3P+N	KF2	DIN-NH	IP55	370x450x180mm		590.GED12505 ¹⁾	1
160A	3P+N	KF2	BS	IP55	370x450x180mm		590.GEB12505 ¹⁾	1
	3P	KF2	DIN-NH	IP55	370x450x180mm		590.GED16003 ¹⁾	1
	3P	KF2	BS	IP55	370x450x180mm		590.GEB16003 ¹⁾	1
160A	3P+N	KF2	DIN-NH	IP55	370x450x180mm		590.GED16005 ¹⁾	1
	3P+N	KF2	BS	IP55	370x450x180mm		590.GEB16005 ¹⁾	1

Fuses not supplied.
Blank sides.

¹⁾ Handle padlockable in OFF position only (3 padlocks).

²⁾ Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.

■ FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
16A	2P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF1602 ²⁾	1
	3P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF1603 ²⁾	1
	4P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF1604 ²⁾	1
	3P+N	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF1605 ²⁾	1
32A	2P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF3202 ²⁾	1
	3P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF3203 ²⁾	1
	4P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF3204 ²⁾	1
	3P+N	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF3205 ²⁾	1
63A	3P	KF1	DIN-NH	IP55	300x380x170mm		590.EMD6303 ¹⁾	1
	3P	KF1	BS	IP55	300x380x170mm		590.EMB6303 ¹⁾	1
	3P+N	KF1	DIN-NH	IP55	300x380x170mm		590.EMD6305 ¹⁾	1
	3P+N	KF1	BS	IP55	300x380x170mm		590.EMB6305 ¹⁾	1
80A	3P	KF1	DIN-NH	IP55	300x380x170mm		590.EMD8003 ¹⁾	1
	3P	KF1	BS	IP55	300x380x170mm		590.EMB8003 ¹⁾	1
	3P+N	KF1	DIN-NH	IP55	300x380x170mm		590.EMD8005 ¹⁾	1
	3P+N	KF1	BS	IP55	300x380x170mm		590.EMB8005 ¹⁾	1
100A	3P	KF2	DIN-NH	IP55	370x450x180mm		590.EMD10003 ¹⁾	1
	3P	KF2	BS	IP55	370x450x180mm		590.EMB10003 ¹⁾	1
	3P+N	KF2	DIN-NH	IP55	370x450x180mm		590.EMD10005 ¹⁾	1
	3P+N	KF2	BS	IP55	370x450x180mm		590.EMB10005 ¹⁾	1
125A	3P	KF2	DIN-NH	IP55	370x450x180mm		590.EMD12503 ¹⁾	1
	3P	KF2	BS	IP55	370x450x180mm		590.EMB12503 ¹⁾	1
	3P+N	KF2	DIN-NH	IP55	370x450x180mm		590.EMD12505 ¹⁾	1
	3P+N	KF2	BS	IP55	370x450x180mm		590.EMB12505 ¹⁾	1
160A	3P	KF2	DIN-NH	IP55	370x450x180mm		590.EMD16003 ¹⁾	1
	3P	KF2	BS	IP55	370x450x180mm		590.EMB16003 ¹⁾	1
	3P+N	KF2	DIN-NH	IP55	370x450x180mm		590.EMD16005 ¹⁾	1
	3P+N	KF2	BS	IP55	370x450x180mm		590.EMB16005 ¹⁾	1

Fuses not supplied.
Blank sides.

¹⁾ Handle padlockable in OFF position only (3 padlocks).

²⁾ Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position.





ISOLATORS-AL Series

ISOLATORS-AL is a complete range of fuse switch-disconnectors with die-cast aluminum enclosure protected with polyurethane epoxy paints.

For this reason, it is particularly suitable for applications where high resistance to chemicals, humidity and dust (IP65) is required, as well as maximum mechanical resistance to stress (IK10).

The fuse switch-disconnectors are a compact solution for protection against overloads and short circuits, which adds to the characteristics of disconnection and operation under load.

technical sheet p. 797

■ FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
16A	2P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF1602	1
	3P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF1603	1
	4P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF1604	1
	3P+N	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF1605	1
32A	2P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF3202	1
	3P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF3203	1
	4P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF3204	1
	3P+N	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF3205	1
63A	3P	KF1	DIN-NH	IP65	315x410x150mm		590.HGED6303	1
	3P	KF1	BS	IP65	315x410x150mm		590.HGEB6303	1
	3P+N	KF1	DIN-NH	IP65	315x410x150mm		590.HGED6305	1
	3P+N	KF1	BS	IP65	315x410x150mm		590.HGEB6305	1
80A	3P	KF1	DIN-NH	IP65	315x410x150mm		590.HGED8003	1
	3P	KF1	BS	IP65	315x410x150mm		590.HGEB8003	1
	3P+N	KF1	DIN-NH	IP65	315x410x150mm		590.HGED8005	1
	3P+N	KF1	BS	IP65	315x410x150mm		590.HGEB8005	1

Fuses not supplied.

Handle padlockable in OFF position only (3 padlocks).

Blank sides.

■ FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
16A	2P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF1602	1
	3P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF1603	1
	4P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF1604	1
	3P+N	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF1605	1
32A	2P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF3202	1
	3P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF3203	1
	4P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF3204	1
	3P+N	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF3205	1
63A	3P	KF1	DIN-NH	IP65	315x410x150mm		590.HEMD6303	1
	3P	KF1	BS	IP65	315x410x150mm		590.HEMB6303	1
	3P+N	KF1	DIN-NH	IP65	315x410x150mm		590.HEMD6305	1
	3P+N	KF1	BS	IP65	315x410x150mm		590.HEMB6305	1
80A	3P	KF1	DIN-NH	IP65	315x410x150mm		590.HEMD8003	1
	3P	KF1	BS	IP65	315x410x150mm		590.HEMB8003	1
	3P+N	KF1	DIN-NH	IP65	315x410x150mm		590.HEMD8005	1
	3P+N	KF1	BS	IP65	315x410x150mm		590.HEMB8005	1

Fuses not supplied.

Handle padlockable in OFF position only (3 padlocks).

Blank sides.



ISOLATORS-HR Series

ISOLATORS-HR (High Rating) is a complete range of fuse switch-disconnectors with painted sheet steel enclosure with hinged door.

The width of the enclosure allows the wiring of cables of large sections, necessary for high power applications and with long power lines, while the high electrical performance guarantees absolute resistance to short circuits caused by high currents.

The fuse switch-disconnectors are a compact solution for protection against overloads and short circuits, which adds to the characteristics of disconnection and operation under load.

technical sheet p. 815

■ FOR GENERAL USE - TOP/BOTTOM



Type: GENERAL

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
100A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KGED10003	1
	3P	KF2	BS	IP65	300x500x200mm		590.KGEB10003	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KGED10005	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KGEB10005	1
125A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KGED12503	1
	3P	KF2	BS	IP65	300x500x200mm		590.KGEB12503	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KGED12505	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KGEB12505	1
160A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KGED16003	1
	3P	KF2	BS	IP65	300x500x200mm		590.KGEB16003	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KGED16005	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KGEB16005	1
200A	3P	KF3	DIN-NH	IP65	400x600x200mm		590.KGED20003	1
	3P	KF3	BS	IP65	400x600x200mm		590.KGEB20003	1
	3P+N	KF3	DIN-NH	IP65	400x600x200mm		590.KGED20005	1
	3P+N	KF3	BS	IP65	400x600x200mm		590.KGEB20005	1
250A	3P	KF3	DIN-NH	IP65	400x600x200mm		590.KGED25003	1
	3P	KF3	BS	IP65	400x600x200mm		590.KGEB25003	1
	3P+N	KF3	DIN-NH	IP65	400x600x200mm		590.KGED25005	1
	3P+N	KF3	BS	IP65	400x600x200mm		590.KGEB25005	1
315A	3P	KF4	DIN-NH	IP65	500x700x250mm		590.KGED31503	1
	3P	KF4	BS	IP65	500x700x250mm		590.KGEB31503	1
	3P+N	KF4	DIN-NH	IP65	500x700x250mm		590.KGED31505	1
	3P+N	KF4	BS	IP65	500x700x250mm		590.KGEB31505	1
400A	3P	KF4	DIN-NH	IP65	500x700x250mm		590.KGED40003	1
	3P	KF4	BS	IP65	500x700x250mm		590.KGEB40003	1
	3P+N	KF4	DIN-NH	IP65	500x700x250mm		590.KGED40005	1
	3P+N	KF4	BS	IP65	500x700x250mm		590.KGEB40005	1
630A	3P	KF5	DIN-NH	IP65	600x800x300mm		590.KGED63003	1
	3P	KF5	BS	IP65	600x800x300mm		590.KGEB63003	1
	3P+N	KF5	DIN-NH	IP65	600x800x300mm		590.KGED63005	1
	3P+N	KF5	BS	IP65	600x800x300mm		590.KGEB63005	1

Fuses not supplied.
 Handle padlockable in OFF position only (3 padlocks).
 TOP/BOTTOM = Top/Bottom connection.
 Gland plate cable entry on bottom side.

■ FOR GENERAL USE - BOTTOM/BOTTOM



Type: GENERAL

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
100A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KGED10003B	1
	3P	KF2	BS	IP65	300x500x200mm		590.KGEB10003B	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KGED10005B	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KGEB10005B	1
125A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KGED12503B	1
	3P	KF2	BS	IP65	300x500x200mm		590.KGEB12503B	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KGED12505B	1
160A	3P+N	KF2	BS	IP65	300x500x200mm		590.KGEB12505B	1
	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KGED16003B	1
	3P	KF2	BS	IP65	300x500x200mm		590.KGEB16003B	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KGED16005B	1
200A	3P+N	KF2	BS	IP65	300x500x200mm		590.KGEB16005B	1
	3P	KF3	DIN-NH	IP65	400x600x250mm		590.KGED20003B	1
	3P	KF3	BS	IP65	400x600x250mm		590.KGEB20003B	1
	3P+N	KF3	DIN-NH	IP65	400x600x250mm		590.KGED20005B	1
250A	3P+N	KF3	BS	IP65	400x600x250mm		590.KGEB20005B	1
	3P	KF3	DIN-NH	IP65	400x600x250mm		590.KGED25003B	1
	3P	KF3	BS	IP65	400x600x250mm		590.KGEB25003B	1
	3P+N	KF3	DIN-NH	IP65	400x600x250mm		590.KGED25005B	1
	3P+N	KF3	BS	IP65	400x600x250mm		590.KGEB25005B	1

Fuses not supplied.

Handle padlockable in OFF position only (3 padlocks).

Gland plate cable entry on bottom side.

BOTTOM/BOTTOM = Bottom/Bottom connection with busbar.

■ FOR EMERGENCY USE - TOP/BOTTOM



Type: EMERGENCY

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
100A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KEMD10003	1
	3P	KF2	BS	IP65	300x500x200mm		590.KEMB10003	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KEMD10005	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KEMB10005	1
125A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KEMD12503	1
	3P	KF2	BS	IP65	300x500x200mm		590.KEMB12503	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KEMD12505	1
160A	3P+N	KF2	BS	IP65	300x500x200mm		590.KEMB12505	1
	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KEMD16003	1
	3P	KF2	BS	IP65	300x500x200mm		590.KEMB16003	1
200A	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KEMD16005	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KEMB16005	1
	3P	KF3	DIN-NH	IP65	400x600x200mm		590.KEMD20003	1
	3P	KF3	BS	IP65	400x600x200mm		590.KEMB20003	1
250A	3P+N	KF3	DIN-NH	IP65	400x600x200mm		590.KEMD20005	1
	3P+N	KF3	BS	IP65	400x600x200mm		590.KEMB20005	1
	3P	KF3	DIN-NH	IP65	400x600x200mm		590.KEMD25003	1
	3P	KF3	BS	IP65	400x600x200mm		590.KEMB25003	1
315A	3P+N	KF3	DIN-NH	IP65	400x600x200mm		590.KEMD25005	1
	3P+N	KF3	BS	IP65	400x600x200mm		590.KEMB25005	1
	3P	KF4	DIN-NH	IP65	500x700x250mm		590.KEMD31503	1
	3P	KF4	BS	IP65	500x700x250mm		590.KEMB31503	1
400A	3P+N	KF4	DIN-NH	IP65	500x700x250mm		590.KEMD31505	1
	3P+N	KF4	BS	IP65	500x700x250mm		590.KEMB31505	1
	3P	KF4	DIN-NH	IP65	500x700x250mm		590.KEMD40003	1
	3P	KF4	BS	IP65	500x700x250mm		590.KEMB40003	1
630A	3P+N	KF4	DIN-NH	IP65	500x700x250mm		590.KEMD40005	1
	3P+N	KF4	BS	IP65	500x700x250mm		590.KEMB40005	1
	3P	KF5	DIN-NH	IP65	600x800x300mm		590.KEMD63003	1
	3P	KF5	BS	IP65	600x800x300mm		590.KEMB63003	1
630A	3P+N	KF5	DIN-NH	IP65	600x800x300mm		590.KEMD63005	1
	3P+N	KF5	BS	IP65	600x800x300mm		590.KEMB63005	1

Fuses not supplied.
 Handle padlockable in OFF position only (3 padlocks).
 TOP/BOTTOM = Top/Bottom connection.
 Gland plate cable entry on bottom side.








Accessories

Door locking kit, auxiliary contacts and terminal cover are useful additions to ISOLATORS Series of switch-disconnectors

CONTACT BLOCKS



Description	Colour	Switch size	Code	
NC CONTACT		F1 Y1 D1	590.PL004001 ^{1) 2)}	10/60
NO CONTACT		F1 Y1 D1	590.PL004002 ^{1) 3)}	10/60
AUXILIARY CONTACT 1NO+1NC		KF1 KF2 K1 K2	590.PL006011 ⁴⁾	10
		KF3 KF5 K3 K5 K6	590.PL006012 ⁴⁾	10
		KF4 K4	590.PL006013 ⁴⁾	10
AUXILIARY CONTACT 2NA+2NC		KF1 KF2 K1 K2	590.PL006021 ⁴⁾	10
		KF3 KF5 K3 K5 K6	590.PL006022 ⁴⁾	10
		KF4 K4	590.PL006023 ⁴⁾	10

¹⁾ Snap catch.

²⁾ NC=Normally closed.

³⁾ NO=Normally open.

⁴⁾ Break before main contacts.





CHANGE-OVER SWITCHES

ISOLATORS-TP SERIES

p. 362

Enclosed change-over switches I-0-II in thermoplastic enclosure



ISOLATORS-AL SERIES

p. 363

Enclosed change-over switches I-0-II in die-cast aluminium enclosure



ISOLATORS-INOX SERIES

p. 364

Enclosed change-over switches I-0-II in stainless steel enclosure



ISOLATORS-HR SERIES

p. 365

Enclosed change-over switches I-0-II in metal enclosure with hinged door



ACCESSORIES

p. 366

Installation accessories






ISOLATORS-TP Series

ISOLATORS-TP is a complete range of I-0-II change-over switches with highly resistant thermoplastic enclosure and is suitable for most industrial and tertiary applications, thanks to the high IP degree of protection.

The high-visibility knob ensures an always optimal grip.

The large internal wiring space ensures easy wiring operations.




















The enclosed I-0-II change-over switches offer the possibility of managing normal and/or emergency lines, as well as the possibility of reversing the motors.

 technical sheet p. 839

■ FOR GENERAL USE - I-0-II



Type: **GENERAL**

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	3P	C1	IP65	155x210x107mm		590.GE1603-C	1/5
	3P+N	C1	IP65	155x210x107mm		590.GE1605-C	1/5
25A	3P	C1	IP65	155x210x107mm		590.GE2503-C	1/5
	3P+N	C1	IP65	155x210x107mm		590.GE2505-C	1/5
32A	3P	C1	IP65	155x210x107mm		590.GE3203-C	1/5
	3P+N	C1	IP65	155x210x107mm		590.GE3205-C	1/5
40A	3P	C1	IP65	155x210x107mm		590.GE4003-C	1/5
	3P+N	C1	IP65	155x210x107mm		590.GE4005-C	1/5
63A	3P	C2	IP55	228x308x128mm		590.GE6303-C	1
	3P+N	C2	IP55	228x308x128mm		590.GE6305-C	1
80A	3P	C2	IP55	228x308x128mm		590.GE8003-C	1
	3P+N	C2	IP55	228x308x128mm		590.GE8005-C	1
100A	3P	C2	IP55	228x308x128mm		590.GE10003-C	1
	3P+N	C2	IP55	228x308x128mm		590.GE10005-C	1
125A	3P	C3	IP55	308x388x128mm		590.GE12503-C	1
	3P+N	C3	IP55	308x388x128mm		590.GE12505-C	1
160A	3P	C3	IP55	308x388x128mm		590.GE16003-C	1
	3P+N	C3	IP55	308x388x128mm		590.GE16005-C	1

Handle padlockable in OFF position only (3 padlocks).
Blank sides.



ISOLATORS-AL Series

ISOLATORS-AL is a complete range of enclosed I-0-II change-over switches with die-cast aluminum enclosure protected with polyurethane epoxy paints.

For this reason, it is particularly suitable for applications where high resistance to chemicals, humidity and dust (IP 65 or IP66) is required, as well as maximum mechanical resistance to stress (IK10).

The enclosed I-0-II change-over switches offer the possibility of managing normal and/or emergency lines, as well as the possibility of reversing the motors.

technical sheet p. 800

■ FOR GENERAL USE - I-0-II



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	3P	C1	IP66	150x210x107mm		590.HGE1603-C	1/5
	3P+N	C1	IP66	150x210x107mm		590.HGE1605-C	1/5
25A	3P	C1	IP66	150x210x107mm		590.HGE2503-C	1/5
	3P+N	C1	IP66	150x210x107mm		590.HGE2505-C	1/5
32A	3P	C1	IP66	150x210x107mm		590.HGE3203-C	1/5
	3P+N	C1	IP66	150x210x107mm		590.HGE3205-C	1/5
40A	3P	C1	IP66	150x210x107mm		590.HGE4003-C	1/5
	3P+N	C1	IP66	150x210x107mm		590.HGE4005-C	1/5
63A	3P	C2	IP65	264x315x122mm		590.HGE6303-C	1
	3P+N	C2	IP65	264x315x122mm		590.HGE6305-C	1
80A	3P	C2	IP65	264x315x122mm		590.HGE8003-C	1
	3P+N	C2	IP65	264x315x122mm		590.HGE8005-C	1
100A	3P	C2	IP65	264x315x122mm		590.HGE10003-C	1
	3P+N	C2	IP65	264x315x122mm		590.HGE10005-C	1
125A	3P	C3	IP65	315x410x150mm		590.HGE12503-C	1
	3P+N	C3	IP65	315x410x150mm		590.HGE12505-C	1
160A	3P	C3	IP65	315x410x150mm		590.HGE16003-C	1
	3P+N	C3	IP65	315x410x150mm		590.HGE16005-C	1

Handle padlockable in OFF position only (3 padlocks).


Blank sides.

Gland plate cable entry on bottom side.



ISOLATORS-INOX Series




















ISOLATORS-INOX is a complete range of enclosed I-0-II change-over switches with AISI304L stainless steel casing (on request AISI316L) and specific solutions to prevent the accumulation of dirt, thus guaranteeing mechanical and environmental performance unaltered over time. ISOLATORS-INOX are the best choice where maximum hygiene is required together with excellent resistance to corrosion due to aggressive detergents such as in the food and pharmaceutical industries, or to high salt or chemical concentrations such as in ports and in particular industrial environments or, again, in the presence of chlorine as in swimming pools. The enclosed I-0-II change-over switches offer the possibility of managing normal and/or emergency lines, as well as the possibility of reversing the motors.

 technical sheet p. 824

■ FOR GENERAL USE - I-0-II



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	3P	C1	IP65	250x280x120mm		590.SGE1603-C	1
	3P+N	C1	IP65	250x280x120mm		590.SGE1605-C	1
25A	3P	C1	IP65	250x280x120mm		590.SGE2503-C	1
	3P+N	C1	IP65	250x280x120mm		590.SGE2505-C	1
32A	3P	C1	IP65	250x280x120mm		590.SGE3203-C	1
	3P+N	C1	IP65	250x280x120mm		590.SGE3205-C	1
40A	3P	C1	IP65	250x280x120mm		590.SGE4003-C	1
	3P+N	C1	IP65	250x280x120mm		590.SGE4005-C	1
63A	3P	C2	IP65	250x280x120mm		590.SGE6303-C	1
	3P+N	C2	IP65	250x280x120mm		590.SGE6305-C	1
80A	3P	C2	IP65	250x280x120mm		590.SGE8003-C	1
	3P+N	C2	IP65	250x280x120mm		590.SGE8005-C	1
100A	3P	C2	IP65	250x280x120mm		590.SGE10003-C	1
	3P+N	C2	IP65	250x280x120mm		590.SGE10005-C	1
125A	3P	C3	IP65	300x400x150mm		590.SGE12503-C	1
	3P+N	C3	IP65	300x400x150mm		590.SGE12505-C	1
160A	3P	C3	IP65	300x400x150mm		590.SGE16003-C	1
	3P+N	C3	IP65	300x400x150mm		590.SGE16005-C	1

Handle padlockable in OFF position only (3 padlocks).
Blank sides.



ISOLATORS-HR Series

ISOLATORS-HR (High Rating) is a complete range of enclosed I-0-II change-over switches with painted sheet steel enclosure with hinged door.

The width of the enclosure allows the wiring of cables of large sections, necessary for high power applications and with long power lines, while the high electrical performance guarantees absolute resistance to short circuits caused by high currents.

The enclosed I-0-II change-over switches offer the possibility of managing normal and/or emergency lines, as well as the possibility of reversing the motors.

technical sheet p. 818



■ FOR GENERAL USE - I-0-II



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
100A	3P	KA1	IP65	400x500x200mm		590.KGE10003-C	1
	3P+N	KA1	IP65	400x500x200mm		590.KGE10005-C	1
125A	3P	KA1	IP65	400x500x200mm		590.KGE12503-C	1
	3P+N	KA1	IP65	400x500x200mm		590.KGE12505-C	1
160A	3P	KA2	IP65	500x700x250mm		590.KGE16003-C	1
	3P+N	KA2	IP65	500x700x250mm		590.KGE16005-C	1
200A	3P	KA2	IP65	600x800x300mm		590.KGE20003-C	1
	3P+N	KA2	IP65	600x800x300mm		590.KGE20005-C	1
250A	3P	KA2	IP65	600x800x300mm		590.KGE25003-C	1
	3P+N	KA2	IP65	600x800x300mm		590.KGE25005-C	1
315A	3P	KA3	IP65	800x800x300mm		590.KGE31503-C	1
	3P+N	KA3	IP65	800x800x300mm		590.KGE31505-C	1
400A	3P	KA3	IP65	800x800x300mm		590.KGE40003-C	1
	3P+N	KA3	IP65	800x800x300mm		590.KGE40005-C	1
500A	3P	KA3	IP65	800x800x300mm		590.KGE50003-C	1
	3P+N	KA3	IP65	800x800x300mm		590.KGE50005-C	1
630A	3P	KA4	IP65	1000x1000x300mm		590.KGE63003-C	1
	3P+N	KA4	IP65	1000x1000x300mm		590.KGE63005-C	1

Handle padlockable in OFF position only (3 padlocks).
Blank sides.




Accessories

Door locking kit, auxiliary contacts and terminal cover are useful additions to ISOLATORS Series of switch-disconnectors.

CONTACT BLOCKS



Description	Switch size	Notes	Code	
AUXILIARY CONTACT 1NO+1NC	KA1 KA2 KS1 KS2		590.PL006011-C	1/10
	KA3 KA4 KA5 KA6 KS3 KS4 KS5 KS6		590.PL006012-C	1/10
CHANGE OVER CONTACT	F1 Y3 Y4 Y5 C1 C2 C3 D3 D5	15A 250V~ - 10A 415V~	590.PL005	50
AUXILIARY CONTACT 2NA+2NC	KA1 KA2 KS1 KS2		590.PL006021-C	1/10
	KA3 KA4 KA5 KA6 KS3 KS4 KS5 KS6		590.PL006022-C	1/10

Break before main contacts.





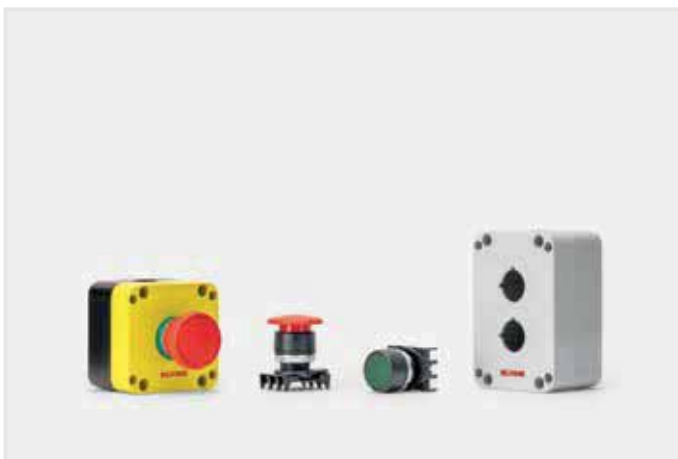
AUXILIARY CONTROL DEVICES

TOP22 SERIES

p. 370

Command and control devices





TOP22 Series






TOP22 is a range of control auxiliaries able to offer suitable spaces for rapid wiring, allowing customized compositions and quick interchangeability.

The emergency buttons, complying with the EN 418 Standards, are equipped with a snap-lock device that does not allow the button to implement the stop function before being in the locked position.

 technical sheet p. 841

■ AUXILIARY CONTROL DEVICES >> PUSH BUTTONS >> PUSH BUTTONS - FLUSH BUTTON






Description	Colour	Type	Flange	Code	
PUSH BUTTON		FLUSH	D22MM	590.PPRN5	10
		FLUSH	D22MM	590.PPRN8	10
		FLUSH	D22MM	590.PPRN1	10
		FLUSH	D22MM	590.PPRN2	10

Fixing by metal ring nut-hole diameter 22mm.
Clamping of the baseplate to the equipment by swing lever.
Provided with contact carrier base plate.
Contacts not provided.

■ AUXILIARY CONTROL DEVICES >> PUSH BUTTONS >> PUSH BUTTONS - PROTRUDING BUTTON






Description	Colour	Type	Flange	Code	
PUSH BUTTON		PROTRUDING	D22MM	590.PPSN8	10
		PROTRUDING	D22MM	590.PPSN1	10

Fixing by metal ring nut-hole diameter 22mm.
Clamping of the baseplate to the equipment by swing lever.
Provided with contact carrier base plate.
Contacts not provided.

■ AUXILIARY CONTROL DEVICES >> PUSH BUTTONS >> PUSH BUTTONS - ILLUMINATED FLUSH BUTTON



Description	Colour	Type	Flange	Code	
PUSH BUTTON		ILLUMINATED FLUSH	D22MM	590.PPRL5	10
		ILLUMINATED FLUSH	D22MM	590.PPRL2	10

Fixing by metal ring nut-hole diameter 22mm.
Clamping of the baseplate to the equipment by swing lever.
Provided with contact carrier base plate.
Contacts not provided.

AUXILIARY CONTROL DEVICES >> PUSH BUTTONS >> MUSHROOM-HEAD EMERGENCY PUSH BUTTONS



Description	Colour	Type	Diameter	Flange	Code	
EMERGENCY PUSH BUTTON		RELEASE BY ROTATION	ø40mm	D22MM	590.PPFN1R4N	10
		RELEASE BY ROTATION	ø60mm	D22MM	590.PPFN1R6N	10
		RELEASE BY KEY	ø40mm	D22MM	590.PPFN1C4N	10
		WITHOUT LOCKING	ø40mm	D22MM	590.PPFN1M4N	10

Fixing by metal ring nut-hole diameter 22mm.
Clamping of the baseplate to the equipment by swing lever.
Provided with contact carrier base plate.
Contacts not provided.
According to EN60418.

AUXILIARY CONTROL DEVICES >> SELECTORS >> SELECTORS - LEVER SELECTORS



Description	Colour	Type	Flange	Code	
LEVER SELECTOR		2 PULSE POSITIONS	D22MM	590.PSLN8D2	10
		2 STEADY POSITIONS	D22MM	590.PSLN8D0	10
		3 PULSE POSITIONS	D22MM	590.PSLN8T3	10
		3 STEADY POSITIONS	D22MM	590.PSLN8T0	10

Fixing by metal ring nut-hole diameter 22mm.
Clamping of the baseplate to the equipment by swing lever.
Provided with contact carrier base plate.
Contacts not provided.

AUXILIARY CONTROL DEVICES >> SELECTORS >> SELECTORS - KEY SELECTORS



Description	Colour	Type	Flange	Code	
KEY SELECTOR		2 STEADY POSITIONS	D22MM	590.PSCR8D0C	10
		3 STEADY POSITIONS	D22MM	590.PSCR8T0C	10

Fixing by metal ring nut-hole diameter 22mm.
Clamping of the baseplate to the equipment by swing lever.
Provided with contact carrier base plate.
Contacts not provided.
Key drawing when on "zero" position.

AUXILIARY CONTROL DEVICES >> ENBLOC PILOT LAMPS (LED 220V)



Description	Colour	Diameter	Flange	Code	
PILOT LAMP		ø22mm	D22MM	590.PLML5L220	10
		ø22mm	D22MM	590.PLML4L220	10
		ø22mm	D22MM	590.PLML1L220	10
		ø22mm	D22MM	590.PLML2L220	10
		ø22mm	D22MM	590.PLML3L220	10

Fixing by metal ring nut-hole diameter 22mm.
Clamping of the baseplate to the equipment by swing lever.



■ AUXILIARY CONTROL DEVICES >> CONTACT BLOCKS



Description	Colour	Code	
LAMPHOLDER		590.PL004007 ^{1) 5)}	10/60
NC CONTACT		590.PL004001 ^{1) 2)}	10/60
NO CONTACT		590.PL004002 ^{1) 3)}	10/60
CHANGE OVER CONTACT		590.PL004005 ⁴⁾	10
CHANGE OVER CONTACT		590.PL004006 ⁴⁾	10

¹⁾ Snap catch.

²⁾ NC=Normally closed.

³⁾ NO=Normally open.

⁴⁾ Break before main contacts.

⁵⁾ Maximum direct power supply 250V with max 2W bulbs..

■ AUXILIARY CONTROL DEVICES >> ACCESSORIES



Description	Colour	Diameter	Flange	Code	
CAP		ø22mm	D22MM	590.PTRN8	10/100
PIN WRENCH				590.PCF	10
EMERGENCY MARKER				590.PTE/A	100
EMERGENCY MARKER				590.PTE/I	10/100
LEGEND PLATE				590.PPTN8	10/100
NEUTRAL LABEL				590.PTA00	10/100

■ AUXILIARY CONTROL DEVICES >> BLANK PLATES




Description	Colour	Flange	Code	
FLANGE ADAPTER		70X87MM	654.0101Y	25
FLANGE ADAPTER		70X87MM	654.0101	25
FLANGE ADAPTER		70X87MM	654.0102	25

With gasket.

For components TOP22 Series (ø22mm).


■ CONTROL STATIONS >> ENCLOSURES



Description	No. of places	Code	
ENCLOSURE	1 MOD.	590.PR01K	12


Empty enclosures for auxiliary control equipment.



Description	No. of places	Code	
ENCLOSURE	2 MOD.	590.PR02K	10


Empty enclosures for auxiliary control equipment.



Description	No. of places	Code	
ENCLOSURE	3 MOD.	590.PR03K	10


Empty enclosures for auxiliary control equipment.



Description	No. of places	Code	
ENCLOSURE	4 MOD.	590.PR04K	1

Empty enclosures for auxiliary control equipment.




Description	No. of places	Code	
ENCLOSURE	6 MOD.	590.PR06K	1

Empty enclosures for auxiliary control equipment.


■ CONTROL STATIONS >> COMPLETE PUSH-BUTTON PANEL



Description	No. of places	Code	
COMPLETE PUSH BUTTON PANEL	1 MOD.	590.PR01RN8	12


Enclosures complete with control and indicator lamp.



Description	No. of places	Code	
COMPLETE PUSH BUTTON PANEL	2 MOD.	590.PR02A	10

Enclosures complete with control and indicator lamp.



Description	No. of places	Code	
COMPLETE PUSH BUTTON PANEL	3 MOD.	590.PR03A	10

Enclosures complete with control and indicator lamp.


■ CONTROL STATIONS >> PUSH-BUTTON PANEL - Ø60-90MM



Description	No. of places	Type	Code	
EMERGENCY PUSH BUTTON	1 MOD.	RELEASE BY ROTATION	590.PR01R6N	12


Supplied with 1 NC contact block.
Mushroom push-buttons for emergency stop.



Description	No. of places	Type	Code	
EMERGENCY PUSH BUTTON	1 MOD.	UNSTABLE	590.PG1M9W01	12

Supplied with 1 NC contact block.
Mushroom push-buttons for emergency stop.
Spring terminals.



Description	No. of places	Type	Code	
COMPLETE PUSH BUTTON PANEL	1 MOD.		590.PG8M9W10	12

Enclosures complete with control and indicator lamp.
Supplied with 1 NO contact block.

■ CONTROL STATIONS >> EMERGENCY PUSH-BUTTON PANEL



AUXILIARY CONTROL DEVICES
TOP22 SERIES



Description	No. of places	Type	Code	
EMERGENCY PUSH BUTTON	1 MOD.	RELEASE BY ROTATION	590.PR01R4N	12

Supplied with 1 NC contact block.
Mushroom push-buttons for emergency stop.



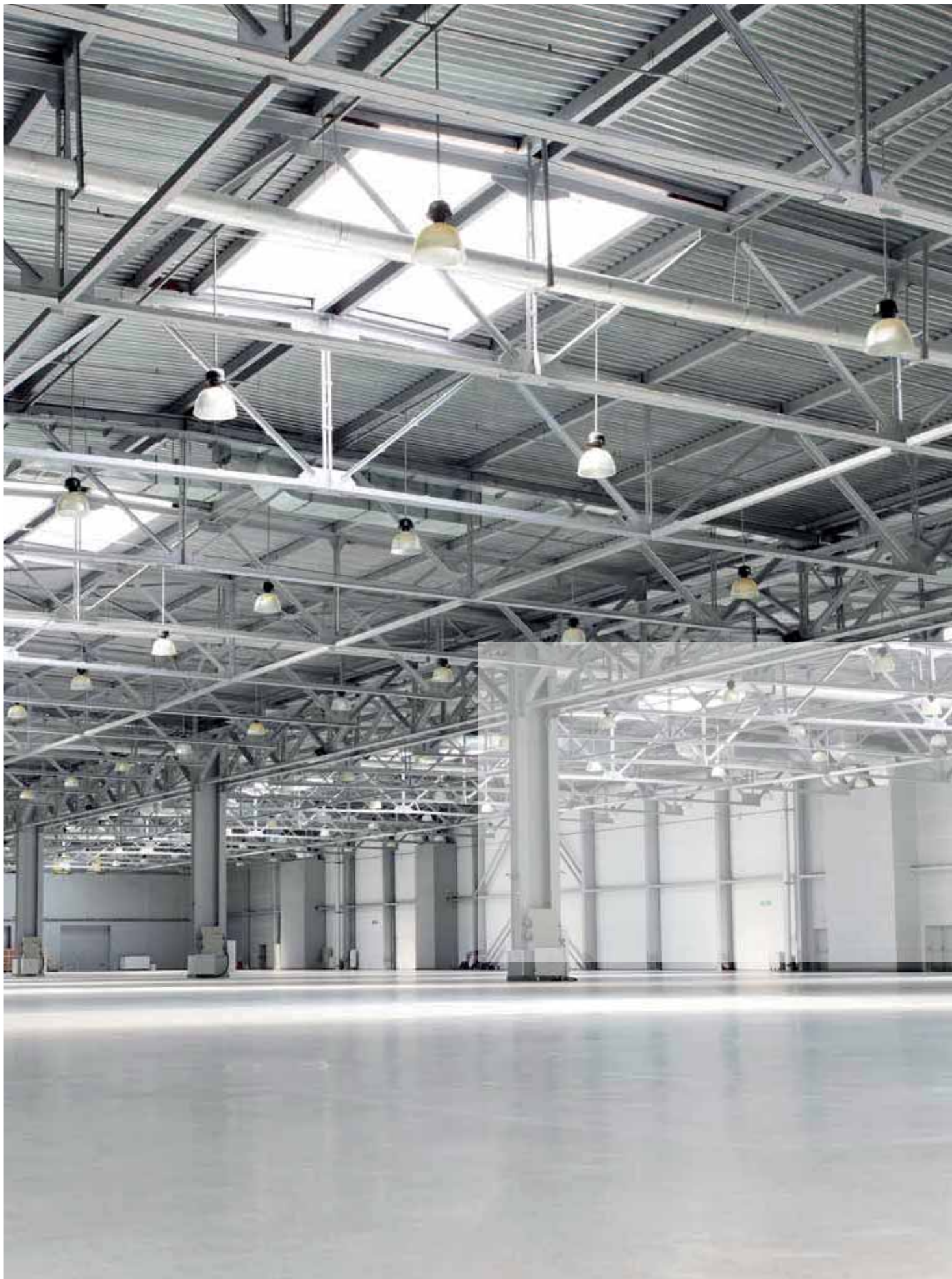
Description	No. of places	Type	Code	
EMERGENCY PUSH BUTTON	1 MOD.	RELEASE BY ROTATION	590.PR01R4S	12

Supplied with 1 NC contact block.
Mushroom push-buttons for emergency stop.



Description	No. of places	Type	Code	
EMERGENCY PUSH BUTTON	1 MOD.	RELEASE BY KEY	590.PR01C4N	12

Supplied with 1 NC contact block.
Mushroom push-buttons for emergency stop.





EMPTY ENCLOSURES



1.6 EMPTY ENCLOSURES
Consumer units



CONSUMER UNITS

DOMINO IP66 SERIES

p. 380

Surface mounting watertight consumer units



DOMINO IP40 SERIES

p. 388

Surface or flush mounting consumer units



FLAT SERIES

p. 402

Flush mounting consumer units with flat door



EMERGENCY SERIES

p. 404


Emergency consumer units





DOMINO IP66 Series

DOMINO IP66 is a complete range of watertight consumer units for surface installation, from 2 up to 64 DIN modules, modular and combinable, DOMINO IP66 consumer units are characterized by a high flexibility of use and considerable expansion possibilities.

 technical sheet p. 847

Technical information

Main characteristics



- 01** Terminal block housing possibility
- 02** Enclosure in halogen-free materials
- 03** Window equipped with triangular key (Yale key on request)
- 04** Blank sides with drilling point marks
- 05** Rapid lead captive stainless steel screws (sealing kit on request)
- 06** Spacious enclosure to increase dissipating power and cabling space
- 07** Depth-adjustable DIN rails
- 08** Base-cover coupling by means of hinges

Modularity

The distribution assemblies and consumer units of the DOMINO IP66 Series are characterized by mutually modular elements. What defines the modularity is the height (M) of the enclosure or its width (DIN). Distribution assemblies and consumer units with the same height can be placed side by side and connected to each other by means of specific connection kits. Distribution assemblies and consumer units with the same width can be put on top each other always by means of specific connection kits.

	4 DIN	8 DIN	12 DIN	16 DIN	24 DIN
M150			672.1001 672.1301	672.1300 672.1200 672.1100	
M190	672.2004	672.2008			
M250			672.2012	672.2016	
M340	672.2300 672.2301 672.2200 672.2100				
M400			672.3300 672.3302 672.3200 672.3100 672.4024	672.4316 672.4216 672.4116 672.4032	
M550				672.5616 672.5416 672.5316 672.5116 672.5048	672.5822 672.5522 672.5622 672.5122
M700				672.7064	

Product code reading

Consumer units Additional features
6 7 2 . 2 0 1 2 . A B C D

A Window
 1: tinted window (standard)

B Self-adhesive label for identification data
 0: without label
 1: with label

C Locking kit
 0: with triangular key
 2: Yale key locking kit



D Terminal block
 IP00
 0: without connection device
 1: 1 [5x10 mm² - 5x16 mm²]
 2: 2 [5x10 mm² - 5x16 mm²]
 3: n° = DIN



Consumer units

■ CONSUMER UNITS IP66 >> 2 DIN






No. modules	Dimensions (hxbxd)	Power	Colour	Code	
2 MOD.	135x76x102mm	6W		672.2002	1/24

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66
Modularity: M135

■ CONSUMER UNITS IP66 >> 4 DIN



No. modules	Dimensions (hxbxd)	Power	Colour	Code	
4 MOD.	190x112x106mm	10W		672.2004	1/16
		10W		672.2004.1102 ¹⁾	1/16





Power dissipation calculated in conformity with CEI 23-49 italian standards.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66
Modularity: M190

■ CONSUMER UNITS IP66 >> 8 DIN



No. modules	Dimensions (hxbxd)	Power	Colour	Code	
8 MOD.	190x184x106mm	14W		672.2008	1/10
		14W		672.2008.1101 ²⁾	1/10
		14W		672.2008.1102 ¹⁾	1/10

Power dissipation calculated in conformity with CEI 23-49 italian standards.





¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

IP: IP66
Modularity: M190

■ CONSUMER UNITS IP66 >> 12 DIN



No. modules	Dimensions (hxbxd)	Power	Colour	Code	
12 MOD.	250x256x140mm	22W		672.2012	1/9
		22W		672.2012.1101 ²⁾	1/9
		22W		672.2012.1102 ¹⁾	1/9

Power dissipation calculated in conformity with CEI 23-49 italian standards.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

IP: IP66
Modularity: M250

■ CONSUMER UNITS IP66 >> 16 DIN



CONSUMER UNITS
DOMINO IP66 SERIES



No. modules	Dimensions (hxbxd)	Power	Colour	Code	
16 MOD.	250x328x140mm	28W		672.2016	1/6
		28W		672.2016.1101 ²⁾	1/6
		28W		672.2016.1102 ¹⁾	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

IP: IP66
Modularity: M250

■ CONSUMER UNITS IP66 >> 24 DIN



No. modules	Dimensions (hxbxd)	Power	Colour	Code	
24 MOD.	400x256x140mm	30W		672.4024	1/6
		30W		672.4024.1102 ¹⁾	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66
Modularity: M400

■ CONSUMER UNITS IP66 >> 32 DIN



No. modules	Dimensions (hxbxd)	Power	Colour	Code	
32 MOD.	400x328x140mm	47W		672.4032	1/4
		47W		672.4032.1102 ¹⁾	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66
Modularity: M400

■ CONSUMER UNITS IP66 >> 48 DIN



No. modules	Dimensions (hxbxd)	Power	Colour	Code	
48 MOD.	550x328x140mm	54W		672.5048	1/3
		54W		672.5048.1102 ¹⁾	1/3

Power dissipation calculated in conformity with CEI 23-49 italian standards.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66
Modularity: M550

CONSUMER UNITS IP66 >> 64 DIN



No. modules	Dimensions (hxbxd)	Power	Colour	Code	
64 MOD.	700x328x140mm	60W		672.7064	1
		60W		672.7064.1102¹⁾	1

Power dissipation calculated in conformity with CEI 23-49 Italian standards.

¹⁾ 1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66
Modularity: M700

ACCESSORIES >> WALL MOUNTING BRACKETS KIT



Description	Suitable for	Notes	Colour	Code	
WALL MOUNTING BRACKETS KIT	SCABOX K2 DOMINO IP66 24 DIN	{4 pz.}		654.0023	10



Description	Suitable for	Notes	Colour	Code	
WALL MOUNTING BRACKETS KIT	DOMINO IP66	{4 pz.}		654.0020	10

ACCESSORIES >> CONNECTION KIT



Description	Suitable for	Notes	Colour	Code	
CONNECTION KIT	DOMINO IP66	PG21		654.0038	25
	DOMINO IP66	PG36		654.0040	25

ACCESSORIES >> COVER SEALING KIT (2 PIECES)


Description	Suitable for	Colour	Code	
COVER SEALING KIT	DOMINO IP66		654.0030	25

ACCESSORIES >> YALE KEY KIT


Description	Suitable for	Code	
YALE KEY KIT	DOMINO IP66	654.0070	10

For door (2 pieces).
 Unique Yale keys, the same key opens all locks.

ACCESSORIES >> RIDGET PROFILE FOR DIN RAIL


Description	Suitable for	Notes	No. modules	Dimensions	Colour	Code	
DIN RAIL BRACKET	1 x EVOLUTION		1 MOD.	28,5mm		654.0091	12/120



Description	Suitable for	Notes	No. modules	Dimensions	Colour	Code	
DIN RAIL BRACKET	2 x EVOLUTION		2 MOD.	53mm		654.0092	12/120



Description	Suitable for	Notes	No. modules	Dimensions	Colour	Code	
RIDGED PROFILE FOR DIN RAIL	ELEVATION 18mm - LENGTH 320mm			DIN 35x7,5mm OMEGA		654.0090	20/100

■ ACCESSORIES >> DIN RAIL ADJUSTABLE HEIGHT



Description	Notes	No. modules	Code	
DIN RAIL KIT	DOMINO IP66	12 MOD.	654.0751	10
	DOMINO IP66	16 MOD.	654.0750	10
	DOMINO IP66	24 MOD.	654.0753	10
	DOMINO IP66	2x12 MOD.	654.0752	10

With mounting brackets.

■ ACCESSORIES >> BLANK PLATE FOR DIN MODULES



Description	Notes	No. modules	Colour	Code	
BLANK PLATE FOR DIN MODULES	9x45mm	1/2 MOD.		654.0420	25/400

When put between the modular devices these plates help to dissipate heat.
To be fixed on DIN rail.



Description	Notes	No. modules	Colour	Code	
BLANK PLATE FOR DIN MODULES	18x45mm	1 MOD.		654.0410	25/250

When put between the modular devices these plates help to dissipate heat.
To be fixed on DIN rail.



Description	Notes	No. modules	Colour	Code	
BLANK PLATE FOR DIN MODULES	73x49mm	4 MOD.		654.0400	25

When put between the modular devices these plates help to dissipate heat.

■ DOMINO TERMINAL BLOCKS >> TERMINAL BLOCKS FOR DIN RAIL



Description	Type	IP	Colour	Code	
TERMINAL BLOCK	HORIZONTAL	IP20		654.0359	10

Terminals: 1x (5x10mm² and 5x16mm²).
Phase R-S-T and earth/neutral terminal blocks.



Description	Type	IP	Colour	Code	
TERMINAL BLOCK	VERTICAL	IP20		654.0358	10

Terminals: 1x (5x10mm² and 5x16mm²).
Phase R-S-T and earth/neutral terminal blocks.

DOMINO TERMINAL BLOCKS >> MODULAR TERMINAL BLOCKS - IP20 >> X2


Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 8 DIN DOMINO IP66 12-24 DIN	IP20		654.0361	10

Insulated by a plastic cover for the connection of the flexible cables.
 There is special left for one additional terminal block.
 For earth, phase and neutral conductors.



Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 8 DIN DOMINO IP66 12-24 DIN	IP20		654.0361C	10

Insulated by a plastic cover for the connection of the flexible cables.
 For earth, phase and neutral conductors.
 Complete terminal block, supplied with one additional terminal block art. 654.0360.

DOMINO TERMINAL BLOCKS >> MODULAR TERMINAL BLOCKS - IP20 >> X3


Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 12-24 DIN DOMINO IP66 16-32-48-64 DIN	IP20		654.0362	10

Insulated by a plastic cover for the connection of the flexible cables.
 For earth, phase and neutral conductors.
 There is special left for two additional terminal blocks.



Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 12-24 DIN DOMINO IP66 16-32-48-64 DIN	IP20		654.0362C	10

Insulated by a plastic cover for the connection of the flexible cables.
 For earth, phase and neutral conductors.
 Complete terminal block, supplied with two additional terminal blocks art. 654.0360.

DOMINO TERMINAL BLOCKS >> MODULAR TERMINAL BLOCKS - IP20 >> ADDITIONAL


Description	Notes	IP	Colour	Code	
TERMINAL BLOCK	EXTRA	IP20		654.0360	10


Insulated by a plastic cover for the connection of the flexible cables.
 For earth, phase and neutral conductors.



DOMINO IP40 Series

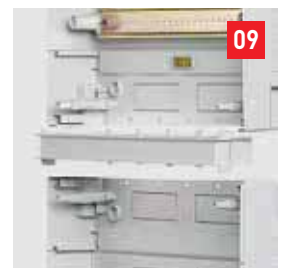
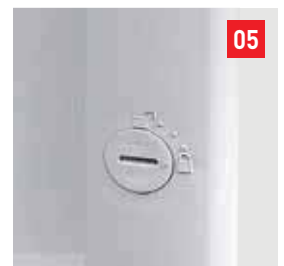
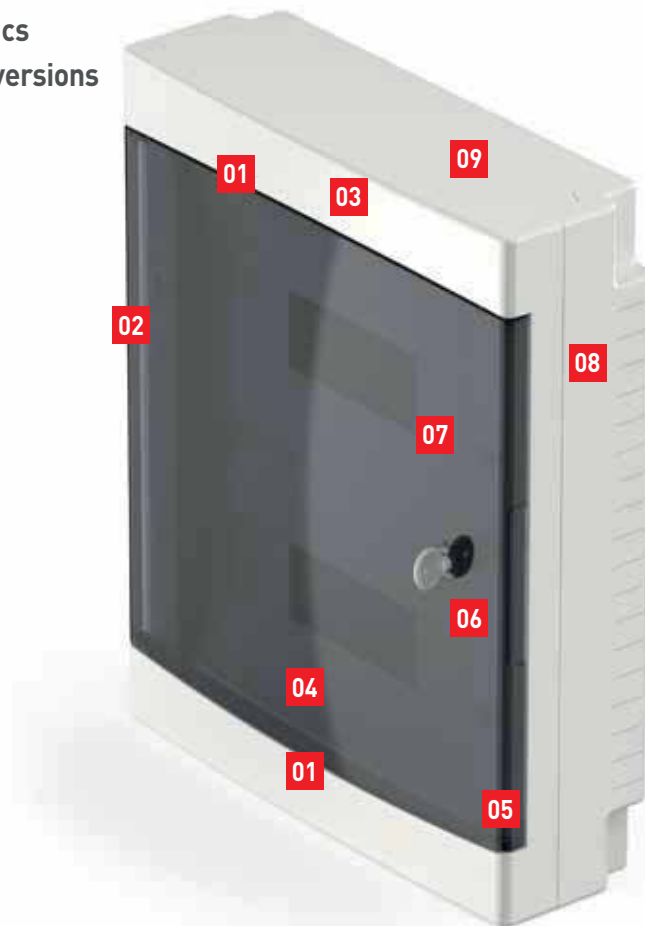
DOMINO IP40 is a range of consumer units for surface or flush installation, available in configuration from 2 to 54 modules and featured by modular elements, easily attachable each other. Available with tinted door or blind version without door.

In flush mounting versions, from 4 to 54 DIN modules, they are featured by extreme modularity: the flush mounting box with knockouts allows an easy laying of the undercurrent tubes.

 technical sheet p. 846

Technical information

Main characteristics surface mounting versions

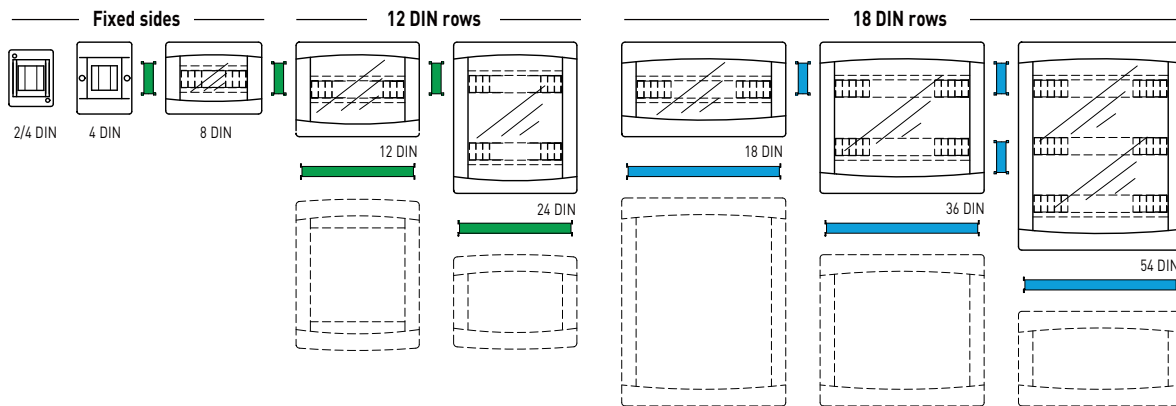


- 01** Terminal block housing possibility
- 02** Reversible window with opening angle greater than 180°
- 03** Enclosure in halogen-free materials
- 04** Spirit level
- 05** Cover closing device with ¼ turn thermoplastic screws
- 06** Window equipable with triangular key (Yale key on request)
- 07** DIN rail on removable frame to facilitate cabling operations
- 08** Spacious enclosure to increase dissipating power and cabling space
- 09** Removable wall with the possibility of joining multiple consumer units units by means of junction kits

Modularity - Surface mounting versions

The surface mounting consumer units of the DOMINO IP40 Series are characterized by modular elements. What characterizes the modularity is the number of DIN modules per row. Consumer units with the same number of DIN modules per row can be overlapped and connected to each other by means of specific connection kits. Consumer units coupling can be done also horizontally by means of specific connection kits.

AVAILABLE MODELS - (SURFACE MOUNTING VERSIONS)



Art. 654.0041
Horizontal connection kit -
12 DIN row

Art. 654.0043
Vertical connection kit -
12 DIN row




Art. 654.0042
Horizontal connection kit -
18 DIN row

Art. 654.0044
Vertical connection kit -
18 DIN row



■ SURFACE MOUNTING VERSION >> MODULAR CONSUMER UNITS >> WITHOUT WINDOW



No. modules	Dimensions (hxbxd)	Power	Colour	Code	
2/4 MOD.	130x97x84mm	9W		673.2102B	1/36
		9W		673.2102	1/36

Power dissipation calculated in conformity with CEI 23-49 italian standards.




(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.0012: without window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.0011: without window, without label, without locking kit, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

IP: IP40 Modularity: 2/4 DIN



No. modules	Dimensions (hxbxd)	Power	Colour	Code	
4+1/2 MOD.	190x135x108mm	11W		673.2104B	1/24
		11W		673.2104	1/24

Power dissipation calculated in conformity with CEI 23-49 italian standards.





(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.0012: without window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.0011: without window, without label, without locking kit, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

IP: IP40 Modularity: 4 DIN



No. modules	Dimensions (hxbxd)	Power	Colour	Code	
8+2 MOD.	190x254x108mm	18W		673.2108B	1/12
		18W		673.2108B.0012¹⁾	1/10
		18W		673.2108	1/12

Power dissipation calculated in conformity with CEI 23-49 italian standards.





(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.0012: without window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.0011: without window, without label, without locking kit, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

IP: IP40 Modularity: 8 DIN



No. modules	Dimensions (hxbxd)	Power	Colour	Code	
12+2 MOD.	250x326x108mm	25W (50W*)		673.2112B	1/7
		25W (50W*)		673.2112B.0012¹⁾	1/6
		25W (50W*)		673.2112	1/7

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.0012: without window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.0011: without window, without label, without locking kit, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

IP: IP40 Modularity: 12 DIN



IP: IP40
Modularity: 18 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
18+2 MOD.	250x434x140mm	43W (85W*)		673.2118B	1/6
		43W (85W*)		673.2118B.0012 ¹⁾	1
		43W (85W*)		673.2118	1/6
		43W (85W*)		673.2118.0011 ²⁾	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.0012: without window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.0011: without window, without label, without locking kit, with 1 IP00 terminal block (5x10mm² - 5x16mm²).



IP: IP40
Modularity: 24 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
24+4 MOD.	400x326x108mm	41W (87W*)		673.4124B	1/5
		41W (87W*)		673.4124B.0012 ¹⁾	1
		41W (87W*)		673.4124	1/5

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.0012: without window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.0011: without window, without label, without locking kit, with 1 IP00 terminal block (5x10mm² - 5x16mm²).



IP: IP40
Modularity: 36 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
36+4 MOD.	400x434x140mm	75W (108W*)		673.4136B	1/4
		75W (108W*)		673.4136B.0012 ¹⁾	1
		75W (108W*)		673.4136	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.0012: without window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.0011: without window, without label, without locking kit, with 1 IP00 terminal block (5x10mm² - 5x16mm²).



IP: IP40
Modularity: 54 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
54+6 MOD.	550x434x140mm	103W (140W*)		673.5154B	1/2
		103W (140W*)		673.5154B.0012 ¹⁾	1
		103W (140W*)		673.5154	1/2

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.0012: without window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.0011: without window, without label, without locking kit, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

Product code reading

Consumer units Additional features

6 7 3 . 2 1 0 8 B . A B C D

A

Window



0: without window

B

Self-adhesive label for identification data



0: without label
1: with label

C

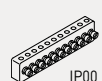
Locking kit



1: no

D

Terminal block



0: without connection device
1: 1 (5x10 mm² - 5x16 mm²)
2: 2 (5x10 mm² - 5x16 mm²)
3: n° = DIN

■ SURFACE MOUNTING VERSION >> MODULAR CONSUMER UNITS >> WITH WINDOW



IP: IP40
Modularity: 8 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
8+1 MOD.	190x254x108mm	17W		673.2008B	1/12
		17W		673.2008B.1101 ²⁾	1/12
		17W		673.2008B.2010 ³⁾	1/12
		17W		673.2008B.2012 ⁴⁾	1/10
		17W		673.2008	1/12
		17W		673.2008.1102 ¹⁾	1/12

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

³⁾.2010: white window, without label, without locking kit, without terminal block.

⁴⁾.2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).



IP: IP40
Modularity: 12 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
12+1 MOD.	250x326x108mm	24W (48W*)		673.2012B	1/7
		24W (48W*)		673.2012B.1101 ²⁾	1/7
		24W (48W*)		673.2012B.2010 ³⁾	1/7
		24W (48W*)		673.2012B.2012 ⁴⁾	1/6
		24W (48W*)		673.2012	1/7
		24W (48W*)		673.2012.1102 ¹⁾	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

³⁾.2010: white window, without label, without locking kit, without terminal block.

⁴⁾.2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).



IP: IP40
Modularity: 18 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
18+1 MOD.	250x434x140mm	42W (74W*)		673.2018B	1/6
		42W (74W*)		673.2018B.1101 ²⁾	1/6
		42W (74W*)		673.2018B.2010 ³⁾	1/6
		42W (74W*)		673.2018B.2012 ⁴⁾	1
		42W (74W*)		673.2018	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

³⁾.2010: white window, without label, without locking kit, without terminal block.

⁴⁾.2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).


IP: IP40
Modularity: 24 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
24+4 MOD.	400x326x108mm	35W (63W*)		673.4024B	1/5
		35W (63W*)		673.4024B.1102 ¹⁾	1/5
		35W (63W*)		673.4024B.2010 ³⁾	1/5
		35W (63W*)		673.4024B.2012 ⁴⁾	1
		35W (63W*)		673.4024	1/5

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(*) Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

³⁾.2010: white window, without label, without locking kit, without terminal block.

⁴⁾.2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP40
Modularity: 36 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
36+4 MOD.	400x434x140mm	57W (96W*)		673.4036B	1/4
		57W (96W*)		673.4036B.1102 ¹⁾	1/4
		57W (96W*)		673.4036B.2010 ³⁾	1/4
		57W (96W*)		673.4036B.2012 ⁴⁾	1
		57W (96W*)		673.4036	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(*) Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

³⁾.2010: white window, without label, without locking kit, without terminal block.

⁴⁾.2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP40
Modularity: 54 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
54+5 MOD.	550x434x140mm	75W (125W*)		673.5054B	1/2
		75W (125W*)		673.5054B.1101 ²⁾	1/2
		75W (125W*)		673.5054B.2010 ³⁾	1/2
		75W (125W*)		673.5054B.2012 ⁴⁾	1
		75W (125W*)		673.5054	1/2

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(*) Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

³⁾.2010: white window, without label, without locking kit, without terminal block.

⁴⁾.2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

Product code reading

Consumer units	Additional features
6 7 3 . 2 0 0 8 B .	A B C D

A Window

1: tinted window (standard)
2: white window

B Self-adhesive label for identification data

0: without label
1: with label

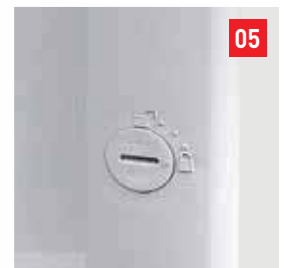
C Locking kit

0: with triangular key
2: Yale key locking kit

D Terminal block

0: without connection device
1: 1 (5x10 mm² - 5x16 mm²)
2: 2 (5x10 mm² - 5x16 mm²)
3: n° = DIN

 Technical information

Main characteristics
flush mounting
versions


- | | |
|---|---|
| <p>01 Enclosure in halogen-free materials</p> <p>02 Reversible window with opening angle greater than 180°</p> <p>03 Spirit level</p> <p>04 Terminal block housing possibility</p> <p>05 Cover closing device with ¼ turn thermoplastic screws</p> | <p>06 Window equipable with triangular key (yale key on request)</p> <p>07 DIN rail on removable frame to facilitate cabling operations</p> <p>08 Pre-fractured walls on all sides to allow the entry of concealed pipes with the possibility of joining multiple consumer units using connection kits</p> |
|---|---|

Product code reading

Consumer units

Additional features

6 7 5 . 2 0 0 8 B . A B C D
A

Window



- 0:** without window
1: tinted window (standard)
2: white window

BSelf-adhesive label
for identification data

- 0:** without label
1: with label

C

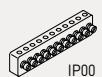
Locking kit



- 0:** with triangular key
1: no
2: Yale key locking kit

D

Terminal block

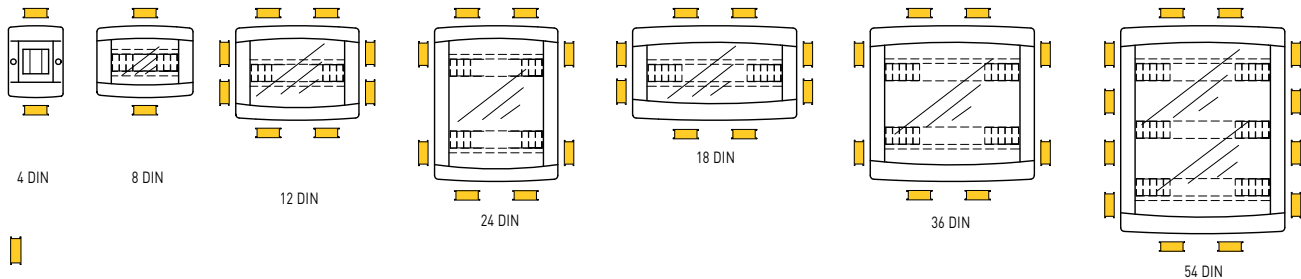


- 0:** without connection device
1: 1 (5x10 mm² - 5x16 mm²)
2: 2 (5x10 mm² - 5x16 mm²)
3: n° = DIN

Modularity - Flush mounting versions

Flush mounting consumer units of the Domino IP40 Series are characterized by modular elements that can be connected to each other by means of specific couplers.

AVAILABLE MODELS - (FLUSH MOUNTING VERSIONS)



Art. 654.0045
Connection kit flush mounting

FLUSH MOUNTING VERSION >> MODULAR CONSUMER UNITS >> WITH WINDOW



IP: IP40
Modularity: 4 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
4+1/2 MOD.	180x150x75mm	17W		675.2104B ⁵⁾	1/38
		17W		675.2104 ⁵⁾	1/38

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

³⁾.2010: white window, without label, without locking kit, without terminal block.

⁴⁾.2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

⁵⁾Without window.



IP: IP40
Modularity: 8 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
8+1 MOD.	210x254x75mm	21W		675.2008B	1/10
		21W		675.2008B.1101 ²⁾	1/10
		21W		675.2008B.2010 ³⁾	1/10
		21W		675.2008B.2012 ⁴⁾	1/6
		21W		675.2008	1/10
		21W		675.2008.1102 ¹⁾	1/10
		21W		675.2008.1102 ¹⁾	1/10

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

³⁾.2010: white window, without label, without locking kit, without terminal block.

⁴⁾.2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

⁵⁾Without window.



IP: IP40
Modularity: 12 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
12+1 MOD.	270x326x75mm	32W		675.2012B	1/7
		32W		675.2012B.1101 ²⁾	1/7
		32W		675.2012B.2010 ³⁾	1/7
		32W		675.2012B.2012 ⁴⁾	1/4
		32W		675.2012	1/7
		32W		675.2012.1102 ¹⁾	1/7

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(* Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾.1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

³⁾.2010: white window, without label, without locking kit, without terminal block.

⁴⁾.2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

⁵⁾Without window.



IP: IP40
Modularity: 18 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
18+1 MOD.	270x434x75mm	36W		675.2018B	1/7
		36W		675.2018B.1102 ¹⁾	1/7
		36W		675.2018B.2010 ³⁾	1/7
		36W		675.2018B.2012 ⁴⁾	1
		36W		675.2018	1/7

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(*) Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

1).1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

2).1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

3).2010: white window, without label, without locking kit, without terminal block.

4).2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

5) Without window.



IP: IP40
Modularity: 24 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
24+4 MOD.	420x326x95mm	52W (74W*)		675.4024B	1/5
		52W (74W*)		675.4024B.1102 ¹⁾	1/5
		52W (74W*)		675.4024B.2010 ³⁾	1/5
		52W (74W*)		675.4024B.2012 ⁴⁾	1
		52W (74W*)		675.4024	1/5

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(*) Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

1).1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

2).1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

3).2010: white window, without label, without locking kit, without terminal block.

4).2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

5) Without window.



IP: IP40
Modularity: 36 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
36+4 MOD.	420x434x95mm	61W		675.4036B	1/3
		61W		675.4036B.1102 ¹⁾	1/3
		61W		675.4036B.2010 ³⁾	1/3
		61W		675.4036B.2012 ⁴⁾	1
		61W		675.4036	1/3

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(*) Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

1).1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

2).1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

3).2010: white window, without label, without locking kit, without terminal block.

4).2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

5) Without window.



IP: IP40
Modularity: 54 DIN

No. modules	Dimensions (hxbxd)	Power	Colour	Code	
54+3 MOD.	570x434x95mm	71W		675.5054B	1/2
		71W		675.5054B.1102 ¹⁾	1/2
		71W		675.5054B.2010 ³⁾	1/2
		71W		675.5054B.2012 ⁴⁾	1
		71W		675.5054	1/2

Power dissipation calculated in conformity with CEI 23-49 italian standards.

(*) Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

1).1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

2).1101: tinted window (standard), with label, with triangular key, with 1 IP00 terminal block (5x10mm² - 5x16mm²).

3).2010: white window, without label, without locking kit, without terminal block.

4).2012: white window, without label, without locking kit, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

5) Without window.

■ ACCESSORIES >> CONNECTION KIT DOMINO IP40 SURFACE MOUNTING



Description	Notes	No. modules	Colour	Code	
CONNECTION KIT	LATERAL	18/36/54 MOD.		654.0042B	6/60
	LATERAL	18/36/54 MOD.		654.0042	6/60
	LATERAL	12/24 MOD.		654.0041B	6/60
	LATERAL	12/24 MOD.		654.0041	6/60
	TOP/BOTTOM	18/36/54 MOD.		654.0044B	6
	TOP/BOTTOM	18/36/54 MOD.		654.0044	6
	TOP/BOTTOM	12/24 MOD.		654.0043B	6
	TOP/BOTTOM	12/24 MOD.		654.0043	6

■ ACCESSORIES >> CONNECTION KIT DOMINO IP40 FLUSH MOUNTING



Description	Suitable for	Colour	Code	
ADAPTOR			654.0046	200



Description	Suitable for	Colour	Code	
CONNECTION KIT	DOMINO IP40 12-24 DIN DOMINO IP40 18-36-54 DIN		654.0045	6/72

■ ACCESSORIES >> COVER SEALING KIT (2 PIECES)



Description	Suitable for	Colour	Code	
COVER SEALING KIT	DOMINO IP40		654.0033	25



■ ACCESSORIES >> YALE KEY KIT



Description	Suitable for	Code	
YALE KEY KIT	DOMINO IP40 MBOX (WIN)	654.0072	10

For door (2 pieces).

For DIN window. Unique Yale keys, the same key opens all locks.

■ ACCESSORIES >> RIDGET PROFILE FOR DIN RAIL



Description	Suitable for	Notes	No. modules	Dimensions	Colour	Code	
DIN RAIL BRACKET	1 x EVOLUTION		1 MOD.	28,5mm		654.0091	12/120



Description	Suitable for	Notes	No. modules	Dimensions	Colour	Code	
DIN RAIL BRACKET	2 x EVOLUTION		2 MOD.	53mm		654.0092	12/120



Description	Suitable for	Notes	No. modules	Dimensions	Colour	Code	
RIDGED PROFILE FOR DIN RAIL		ELEVATION 18mm - LENGTH 320mm		DIN 35x7,5mm OMEGA		654.0090	20/100

■ ACCESSORIES >> BLANK PLATE FOR DIN MODULES



Description	Notes	No. modules	Colour	Code	
BLANK PLATE FOR DIN MODULES	9x45mm	1/2 MOD.		654.0420	25/400

When put between the modular devices these plates help to dissipate heat.
To be fixed on DIN rail.



Description	Notes	No. modules	Colour	Code	
BLANK PLATE FOR DIN MODULES	18x45mm	1 MOD.		654.0410	25/250

When put between the modular devices these plates help to dissipate heat.
To be fixed on DIN rail.



Description	Notes	No. modules	Colour	Code	
BLANK PLATE FOR DIN MODULES	73x49mm	4 MOD.		654.0400B	25

When put between the modular devices these plates help to dissipate heat.



Description	Notes	No. modules	Colour	Code	
BLANK PLATE FOR DIN MODULES	73x49mm	4 MOD.		654.0400	25

When put between the modular devices these plates help to dissipate heat.

■ ACCESSORIES >> TRANSFORMERS



Description	Notes	Dimensions	Code	
SAFETY TOROIDAL TRANSFORMER	150VA	∅170x∅45xh25mm L=270mm	654.0210	1
	300VA	∅170x∅39xh38mm L=270mm	654.0220	1

Cables: black 220V~, red 24V~.
Safety Extra Low Voltage (SELV).
F class.

■ DOMINO TERMINAL BLOCKS >> TERMINAL BLOCKS FOR DIN RAIL



Description	Type	IP	Colour	Code	
TERMINAL BLOCK	HORIZONTAL	IP20	■	654.0359	10

Terminals: 1x (5x10mm² and 5x16mm²).
Phase R-S-T and earth/neutral terminal blocks.



Description	Type	IP	Colour	Code	
TERMINAL BLOCK	VERTICAL	IP20	■	654.0358	10

Terminals: 1x (5x10mm² and 5x16mm²).
Phase R-S-T and earth/neutral terminal blocks.

■ DOMINO TERMINAL BLOCKS >> MODULAR TERMINAL BLOCKS - IP20 >> X2



Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 8 DIN DOMINO IP66 12-24 DIN	IP20	■	654.0361	10

Insulated by a plastic cover for the connection of the flexible cables.
There is special left for one additional terminal block.
For earth, phase and neutral conductors.



Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 8 DIN DOMINO IP66 12-24 DIN	IP20	■	654.0361C	10

Insulated by a plastic cover for the connection of the flexible cables.
For earth, phase and neutral conductors.
Complete terminal block, supplied with one additional terminal block art. 654.0360.

DOMINO TERMINAL BLOCKS >> MODULAR TERMINAL BLOCKS - IP20 >> X3


Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 12-24 DIN DOMINO IP66 16-32-48-64 DIN	IP20		654.0362	10

Insulated by a plastic cover for the connection of the flexible cables.
 For earth, phase and neutral conductors.
 There is special left for two additional terminal blocks.



Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 12-24 DIN DOMINO IP66 16-32-48-64 DIN	IP20		654.0362C	10

Insulated by a plastic cover for the connection of the flexible cables.
 For earth, phase and neutral conductors.
 Complete terminal block, supplied with two additional terminal blocks art. 654.0360.

DOMINO TERMINAL BLOCKS >> MODULAR TERMINAL BLOCKS - IP20 >> X4


Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 18-36-54 DIN	IP20		654.0364	10

Insulated by a plastic cover for the connection of the flexible cables.
 For earth, phase and neutral conductors.
 There is special left for three additional terminal blocks.



Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 18-36-54 DIN	IP20		654.0364C	10

Insulated by a plastic cover for the connection of the flexible cables.
 For earth, phase and neutral conductors.
 Complete terminal block, supplied with three additional terminal blocks Art. 654.0360.

DOMINO TERMINAL BLOCKS >> MODULAR TERMINAL BLOCKS - IP20 >> ADDITIONAL


Description	Notes	IP	Colour	Code	
TERMINAL BLOCK	EXTRA	IP20		654.0360	10

Insulated by a plastic cover for the connection of the flexible cables.
 For earth, phase and neutral conductors.

DOMINO TERMINAL BLOCKS >> TERMINAL BLOCKS WITHOUT INSULATED BASE - IP00


Description	Suitable for	IP	Code	
TERMINAL BLOCK	DOMINO IP40 MBOX2 MBOX3 BLOCK4	IP00	654.0349	10/100

Terminals: 1x (5x10mm² and 5x16mm²).
 Earth/neutral terminal blocks.

1.6 EMPTY ENCLOSURES


Consumer units



FLAT Series

FLAT Series is a range of flush mounting consumer units, in 4 sizes from 12 to 48 DIN modules, featured by metallic gate with reduced protrusion from the wall.

They are available equipped with a flush box for brick wall or plasterboard.

 technical sheet p. 851

Technical information

Main characteristics



- 01** Low profile frame
- 02** Door can be equipped with a yale key (on request).
- 03** Wall-flush door in painted steel
- 04** Reversible door
- 05** Terminal blocks as standard
- 06** Versions available with box for brick walls or plasterboard (GW 850°C)
- 07** Cover removal handles
- 08** Flush mounting box removable upper and lower walls with knockout

ENCLOSURES >> GW650°C (SUITABLE BRICK WALLS)



No. modules	Dimensions	Power	Colour	IP40	
12+2 MOD.	343x368x90mm	25W		677.1012.1 ¹⁾	1
24+4 MOD.	443x368x90mm	41W		677.2024.1 ¹⁾	1
36+6 MOD.	568x368x90mm	54W		677.3036.2 ²⁾	1
48+8 MOD.	753x368x91mm	75W		677.4048.2 ²⁾	1
60+10 MOD.	878x368x93mm	75W		677.5060.2 ²⁾	1

Materials: Thermoplastic enclosure - Painted metal door.

¹⁾.1 = 1x terminal block 2x(2x16mm² + 14x10mm²).

²⁾.2 = 2x terminal block 2x(2x16mm² + 14x10mm²).

ENCLOSURES >> GW850°C (SUITABLE FOR PLASTERBOARD WALLS)



No. modules	Dimensions	Power	Colour	IP40	
12+2 MOD.	343x368x90mm	25W		677.1012.1-HW ¹⁾	1
24+4 MOD.	443x368x90mm	41W		677.2024.1-HW ¹⁾	1
36+6 MOD.	568x368x90mm	54W		677.3036.2-HW ²⁾	1
48+8 MOD.	753x368x91mm	75W		677.4048.2-HW ²⁾	1
60+10 MOD.	878x368x93mm	75W		677.5060.2-HW ²⁾	1

Materials: Thermoplastic enclosure - Painted metal door.

¹⁾.1 = 1x terminal block 2x(2x16mm² + 14x10mm²).

²⁾.2 = 2x terminal block 2x(2x16mm² + 14x10mm²).

ACCESSORIES AND COMPONENTS




Description	Suitable for	Notes	Code	
TERMINAL BLOCK	FLAT 12 DIN INC.	2x(2x16mm ² + 14x10mm ²)	654.0377	1/25
YALE KEY KIT		FOR METALLIC DOOR	654.0074	10
WALL MOUNTING BRACKETS KIT		(4 pz.)	654.0026	1/15
KIT BRACKETS FOR PLASTER WALL			654.0025	1/50





EMERGENCY Series

EMERGENCY is a range of emergency switchboards, for surface or flush mounting, made of self-extinguishing thermoplastic material and resistant to abnormal heat and fire up to 650°C.

 technical sheet p. 849



EMERGENCY SWITCHBOARDS



Installation	Dimensions	Notes	Colour	Code	
FLUSH MOUNTING	100x100x50mm			676.25100	13



With 1 NO contact and 1 NC contact (2A, 250V).
Complete with glass-breaking hammer.
Can be mounted in flush mounting box with centre-to-centre distance 83.5 mm.
With illuminated push button (24V incandescent or 250V fluorescent bayonet lamp -12V).



Installation	Dimensions	Notes	Colour	Code	
SURFACE MOUNTING	100x100x50mm			676.35100	14



With 1 NO contact and 1 NC contact (2A, 250V).
Complete with glass-breaking hammer.
With illuminated push button (24V incandescent or 250V fluorescent bayonet lamp -12V).



Installation	Dimensions	Notes	Colour	Code	
SURFACE MOUNTING	205x220x140mm			676.35205	6

Equipped with flange to facilitate junctions.
With bottom plate.




Installation	Dimensions	Notes	Colour	Code	
SURFACE MOUNTING	205x220x140mm	6 DIN		676.35201	6


Equipped with flange to facilitate junctions.

■ KIT ACCESSORIES




Description	Dimensions	Code	
METAL FIXING BRACKETS		676.10103	20



Description	Dimensions	Code	
BREAKABLE GLASS	100x100mm	676.10101	10



Description	Dimensions	Code	
GLASS BREAKER		676.10102	10







CABINETS FOR AUTOMATION AND DISTRIBUTION

EASYBOX SERIES

p. 408


Surface mounting waterproof modular cabinets for distribution





EASYBOX Series

EASYBOX is a range of surface mounting cabinets for automation and distribution, in 5 different sizes from 24 to 140 DIN modules, available with enclosure in high resistance thermoplastic material, in metal painted with epoxy resin or in stainless steel. Based on a concept of absolute modularity, the different configurations are obtained through the coupling of a few components. Available with tinted or blind door.

 technical sheet p. 848

Technical information

Main characteristics



- 01** Possibility of assembling a blank gray internal door in technopolymer material, reversible with snap-in closure and triangular key (Yale key on request)
- 02** Door equipped with triangular key (Yale key on request)
- 03** Reversible door with 180° opening angle and snap-in fixing on pins
- 04** Door available tinted or blank grey colored in technopolymer (LT), with window in painted metal (MV) or blank in stainless steel (AI)
- 05** Possibility of fixing DIN rails on different heights or modular plates in galvanized steel for fixing non-modular elements
- 06** Quick-fixing tilting frame to speed up wiring operations. Removable for work bench assembly and wiring.
- 07** Enclosure available in 5 different sizes in the following materials: technopolymer (LT), metal painted with epoxy resin (MV), stainless steel (AI)
- 08** Blank sides for vertical entries with cable glands, pipes or conduits

Enclosure versions



LT (technopolymer) type 3
(460x520x245mm) enclosure
with tinted door.



LT (technopolymer) type 4
(460x670x245mm) enclosure
with blank grey door.



LT (technopolymer) type 4
(460x670x245mm) enclosure
with blank grey door.



LT (technopolymer) type 4
(460x670x245mm) enclosure
with mounting plate and internal door.



Al (stainless steel) type 4
(460x670x245mm) enclosure
with blind door.



MV (painted metal) type 4
(460x670x245mm) enclosure
with door with transparent window.



■ WATERTIGHT CABINETS >> BASE >> IP65


Horizontal modularity	Dimensions	Possible formats		Code		
		Variant A	Variant B			
M320 12 DIN for row	Type 1 320x370x210 2 rows	1+ 1	 24 DIN	1/2+ 1+ 1/2	 12 DIN	LT 655.0010 1
						MV 655.0110 1
	Type 2 460x370x245 2 rows	1+ 1	 40 DIN	1/2+ 1+ 1/2	 20 DIN	LT 655.0020 1
						MV 655.0120 1
M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1	 60 DIN	1/2+ 1+ 1+ 1/2	 40 DIN	LT 655.0030 1
						MV 655.0130 1
	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1	 80 DIN	1/2+ 1+ 1+ 1+ 1/2	 60 DIN	LT 655.0040 1
						MV 655.0140 1
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1	 140 DIN	1/2+ 1+ 1+ 1+ 1+ 1/2	 105 DIN	LT 655.0050 1
						MV 655.0150 1

¹⁾ Base supplied with blank door already mounted.

Key:

LT = Thermoplastic alloy

MV = Varnished metal

AI = Stainless steel

■ WATERTIGHT CABINETS >> DOOR >> IP65



Blank grey

Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M320 12 DIN for row	Type 1 320x370x210 2 rows	1+ 1 	1/2+ 1+ 1/2 	LT 655.0011	1
				MV 655.0111	1
	Type 2 460x370x245 2 rows	1+ 1 	1/2+ 1+ 1/2 	LT 655.0021	1
				MV 655.0121	1
M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1 	1/2+ 1+ 1+ 1/2 	LT 655.0031	1
				MV 655.0131	1
	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1 	1/2+ 1+ 1+ 1+ 1/2 	LT 655.0041	1
				MV 655.0141	1
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1 	1/2+ 1+ 1+ 1+ 1+ 1/2 	LT 655.0051	1
				MV 655.0151	1



With window tinted (LT) with marine window (MV)

Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M320 12 DIN for row	Type 1 320x370x210 2 rows	1+ 1 	1/2+ 1+ 1/2 	LT 655.0012	1
				MV 655.0112	1
	Type 2 460x370x245 2 rows	1+ 1 	1/2+ 1+ 1/2 	LT 655.0022	1
				MV 655.0122	1
M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1 	1/2+ 1+ 1+ 1/2 	LT 655.0032	1
				MV 655.0132	1
	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1 	1/2+ 1+ 1+ 1+ 1/2 	LT 655.0042	1
				MV 655.0142	1
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1 	1/2+ 1+ 1+ 1+ 1+ 1/2 	LT 655.0052	1
				MV 655.0152	1

Key:
 LT = Thermoplastic alloy
 MV = Varnished metal
 AI = Stainless steel



CABINETS FOR AUTOMATION AND DISTRIBUTION
EASYBOX SERIES

■ WATERTIGHT CABINETS >> MOUNTING PLATE >> IP65


In thermoplastic material

Horizontal modularity	Dimensions	Possible formats		Code			
		Variant A	Variant B				
M320 12 DIN for row	Type 1 320x370x210 2 rows	1+ 1	 24 DIN	1/2+ 1+ 1/2	 12 DIN	655.0014 267x294x4,5 1/4	
		1+ 1	 40 DIN	1/2+ 1+ 1/2			 20 DIN
	M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1	 60 DIN	1/2+ 1+ 1+ 1/2	 40 DIN	655.0034 407x444x4,5 1/2
			1+ 1+ 1+ 1	 80 DIN	1/2+ 1+ 1+ 1/2	 60 DIN	
	M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1	 140 DIN	1/2+ 1+ 1+ 1+ 1/2	 105 DIN	655.0054 679x633x4,5 1



Stainless steel
smooth zinc-coated

Horizontal modularity	Dimensions	Possible formats		Code			
		Variant A	Variant B				
M320 12 DIN for row	Type 1 320x370x210 2 rows	1+ 1	 24 DIN	1/2+ 1+ 1/2	 12 DIN	Ⓢ 655.0015 267x294 1/4	
		1+ 1	 40 DIN	1/2+ 1+ 1/2	 20 DIN		Ⓢ 655.0025 407x294 1/4
	M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1	 60 DIN	1/2+ 1+ 1+ 1/2	 40 DIN	Ⓢ 655.0035 407x444 1/2
			1+ 1+ 1+ 1	 80 DIN	1/2+ 1+ 1+ 1/2	 60 DIN	
	M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1	 140 DIN	1/2+ 1+ 1+ 1+ 1/2	 105 DIN	655.0055 679x633 1

■ WATERTIGHT CABINETS >> INTERNAL DOOR >> IP65



Blank grey

Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M320 12 DIN for row	Type 1 320x370x210 2 rows	1+ 1 	1/2+ 1+ 1/2 	655.0016	1/8
		24 DIN	12 DIN		
	Type 2 460x370x245 2 rows	1+ 1 	1/2+ 1+ 1/2 	655.0026	1/9
		40 DIN	20 DIN		
M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1 	1/2+ 1+ 1+ 1/2 	655.0036	1/9
		60 DIN	40 DIN		
	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1 	1/2+ 1+ 1+ 1+ 1/2 	655.0046	1/9
		80 DIN	60 DIN		
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1 	1/2+ 1+ 1+ 1+ 1+ 1/2 	655.0056	1
		140 DIN	105 DIN		

■ WATERTIGHT CABINETS >> BUSBAR BOTTOM PLATE >> IP65



Mounting plate

Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1 	1/2+ 1+ 1+ 1+ 1+ 1/2 	655.00550	1
		140 DIN	105 DIN	267x633x2	



Internal door

Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1 	1/2+ 1+ 1+ 1+ 1+ 1/2 	655.00560	1
		140 DIN	105 DIN		

CABINETS FOR AUTOMATION AND DISTRIBUTION

EASYBOX SERIES

■ WATERTIGHT CABINETS >> UPRIGHT >> IP65



Couple

Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M320 12 DIN for row	Type 1 320x370x210 2 rows	1+ 1 	1/2+ 1+ 1/2 	Ⓢ 655.0019	1/8
	Type 2 460x370x245 2 rows	1+ 1 	1/2+ 1+ 1/2 		
M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1 	1/2+ 1+ 1+ 1/2 	Ⓢ 655.0039	1/10
	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1 	1/2+ 1+ 1+ 1+ 1/2 		
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1 	1/2+ 1+ 1+ 1+ 1/2 	Ⓢ 655.0059	1

■ WATERTIGHT CABINETS >> STANDARD PANEL WITH DIN VENT-HOLE >> IP65



1 module -
With DIN rail

Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M320 12 DIN for row	Type 1 320x370x210 2 rows	1+ 1 	1/2+ 1+ 1/2 	Ⓢ 655.32020	1/5
	Type 2 460x370x245 2 rows	1+ 1 	1/2+ 1+ 1/2 		
M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1 	1/2+ 1+ 1+ 1/2 	Ⓢ 655.46020	1/4
	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1 	1/2+ 1+ 1+ 1+ 1/2 		
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1 	1/2+ 1+ 1+ 1+ 1/2 	655.75020	1

■ WATERTIGHT CABINETS >> MODULAR PLATE >> IP65



1 module - In metal, with brackets

Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M320 12 DIN for row	Type 1 320x370x210 2 rows	1+ 1 24 DIN	1/2+ 1+ 1/2 12 DIN	Ⓜ 655.32011	1/8
	Type 2 460x370x245 2 rows	1+ 1 40 DIN	1/2+ 1+ 1/2 20 DIN		
M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1 60 DIN	1/2+ 1+ 1+ 1/2 40 DIN	Ⓜ 655.46011	1/8
	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1 80 DIN	1/2+ 1+ 1+ 1+ 1/2 60 DIN		
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1 140 DIN	1/2+ 1+ 1+ 1+ 1+ 1/2 105 DIN	655.75011	1















2 modules - In metal, with brackets













Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M320 12 DIN for row	Type 1 320x370x210 2 rows	1+ 1 24 DIN	1/2+ 1+ 1/2 12 DIN	Ⓜ 655.32012	1/4
	Type 2 460x370x245 2 rows	1+ 1 40 DIN	1/2+ 1+ 1/2 20 DIN		
M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1 60 DIN	1/2+ 1+ 1+ 1/2 40 DIN	Ⓜ 655.46012	1/4
	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1 80 DIN	1/2+ 1+ 1+ 1+ 1/2 60 DIN		
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1 140 DIN	1/2+ 1+ 1+ 1+ 1+ 1/2 105 DIN	655.75012	1



■ WATERTIGHT CABINETS >> DIN RAIL >> IP65

Horizontal modularity	Dimensions	Possible formats		Code		
		Variant A	Variant B			
 M320 12 DIN for row 1 module - With brackets	Type 1 320x370x210 2 rows	1+ 1  24 DIN	1/2+ 1+ 1/2  12 DIN	Ⓢ 655.32010	1/10	
	Type 2 460x370x245 2 rows	1+ 1  40 DIN	1/2+ 1+ 1/2  20 DIN			
	M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1  60 DIN	1/2+ 1+ 1+ 1/2  40 DIN	Ⓢ 655.46010	1/12
	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1  80 DIN	1/2+ 1+ 1+ 1+ 1/2  60 DIN			
	M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1  140 DIN	1/2+ 1+ 1+ 1+ 1+ 1/2  105 DIN	655.75010	1

■ WATERTIGHT CABINETS >> STANDARD PLAIN PANEL >> IP65

Horizontal modularity	Dimensions	Possible formats		Code		
		Variant A	Variant B			
 M320 12 DIN for row 1 module - h= 150 mm	Type 1 320x370x210 2 rows	1+ 1  24 DIN	1/2+ 1+ 1/2  12 DIN	Ⓢ 655.32021	1/8	
	Type 2 460x370x245 2 rows	1+ 1  40 DIN	1/2+ 1+ 1/2  20 DIN			
	M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1  60 DIN	1/2+ 1+ 1+ 1/2  40 DIN	Ⓢ 655.46021	1/10
	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1  80 DIN	1/2+ 1+ 1+ 1+ 1/2  60 DIN			
	M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1  140 DIN	1/2+ 1+ 1+ 1+ 1+ 1/2  105 DIN	655.75021	1

■ WATERTIGHT CABINETS >> STANDARD PLAIN PANEL >> IP65



1/2 module -
half module
(2 pieces)
h= 75 mm

Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M320 12 DIN for row	Type 1 320x370x210 2 rows	1+ 1 24 DIN	1/2+ 1+ 1/2 12 DIN	655.32022	1/10
	Type 2 460x370x245 2 rows	1+ 1 40 DIN	1/2+ 1+ 1/2 20 DIN		
M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1 60 DIN	1/2+ 1+ 1+ 1/2 40 DIN	655.46022	1/10
	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1 80 DIN	1/2+ 1+ 1+ 1+ 1/2 60 DIN		
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1 140 DIN	1/2+ 1+ 1+ 1+ 1+ 1/2 105 DIN	655.75022	1 (1 pezzo)

■ WATERTIGHT CABINETS >> STANDARD PLAIN PANEL >> IP65



1/4 module -
Quarter module
(2 pieces)
h= 37,5 mm

Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1 140 DIN	1/2+ 1+ 1+ 1+ 1+ 1/2 105 DIN	655.75023	1



■ WATERTIGHT CABINETS >> PANEL FOR MOULDED-CASE CIRCUIT BREAKER >> IP65


Includes metal plate with DIN rail

Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M320 12 DIN for row	Type 1 320x370x210 2 rows	1+ 1 24 DIN	1/2+ 1+ 1/2 12 DIN	655.32024	1/5
	Type 2 460x370x245 2 rows	1+ 1 40 DIN	1/2+ 1+ 1/2 20 DIN		
M460 20 DIN for row	Type 3 460x520x245 3 rows	1+ 1+ 1 60 DIN	1/2+ 1+ 1+ 1/2 40 DIN	Ⓢ 655.46024	1/4
	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1 80 DIN	1/2+ 1+ 1+ 1+ 1/2 60 DIN		
M750 35 DIN for row	Type 5 755x715x345 4 rows	1+ 1+ 1+ 1 140 DIN	1/2+ 1+ 1+ 1+ 1+ 1/2 105 DIN	655.75024	1

■ WATERTIGHT CABINETS >> SPECIAL INTERNAL DOOR PANEL >> IP65


Lock supplied

Horizontal modularity	Dimensions	Possible formats		Code	
		Variant A	Variant B		
M460 20 DIN for row	Type 2 460x370x245 2 rows	1+ 1 40 DIN	1/2+ 1+ 1/2 20 DIN	Ⓢ 655.46025	1/9
	Type 3 460x520x245 3 rows	1+ 1+ 1 60 DIN	1/2+ 1+ 1+ 1/2 40 DIN		
M460 20 DIN for row	Type 4 460x670x245 4 rows	1+ 1+ 1+ 1 80 DIN	1/2+ 1+ 1+ 1+ 1/2 60 DIN		

KIT ACCESSORIES



Description	For enclosures	Code	
	Fixing into pole max Ø 300mm couple in metal		
	Type 2, 3 e 4	655.46090	1/3
	Type 5	655.75090	1



Description	Colour	Code	
Triangular key kit		655.900	1/10



Description	Colour	Code	
Yale key kit		655.910	1/10
	transparent fumè	655.911	1/10



Description	Colour	Code	
Accessory kit for padlocking (LT)		655.920 ¹⁾	1/10

¹⁾ Not suitable for metal doors. Padlock not supplied.



Description	Code	
Additional brackets kit	655.930	1/10



Description	Code	
Ventilation kit IP54 - 230V~	655.950	1

DOCUMENT HOLDER



Description	Code	
Document holder	655.960	1/10

SURFACE MOUNTING BRACKETS



Description	Code	
Metal surface mounting brackets (MV e AI) - 4 pieces	655.970	1/10

MV = Varnished metal AI= Stainless steel.



1.6 EMPTY ENCLOSURES
Junction boxes



JUNCTION BOXES

SCABOX SERIES

p. 422

Surface mounting junction boxes



CUBIK SERIES

p. 426

Surface mounting junction boxes GW 960°C



WBOX SERIES

p. 427

Flush mounting junction boxes



ALUBOX SERIES

p. 430

Surface mounting junction boxes in die-cast aluminium



BEEBOX SERIES

p. 431

Surface mounting enclosure for devices fixing






SCABOX Series

SCABOX is a range of junction boxes made of halogen-free, shock-proof and self-extinguishing thermoplastic material.





SCABOX junction boxes for electrical diverting are available in a wide variety of sizes and configurations: with or without cable sleeves, with high base for a greater wiring space and with transparent cover to guarantee the inspection of the cabling and the devices housed inside.

The base-cover coupling is guaranteed by stainless steel or plastic quarter-turn captive screws, while the IP rating is ensured by the co-molded gasket, integral with the cover and unlosable, for a constant protection against dust and liquids over time.

 technical sheet p. 857










■ JUNCTION BOXES >> BOX WITH CABLE SLEEVES >> CLIPPED BLANK COVER - IP55



Description	Dimensions	GW	IP	Entries	Colour	Code	
JUNCTION BOX	80x80x40mm	GW 650°C	IP55	7xØ23mm		680.003	60
	ø65x40mm	GW 650°C	IP55	4xØ23mm		680.001	100
	ø80x40mm	GW 650°C	IP55	4xØ23mm		680.002	100

■ JUNCTION BOXES >> BOX WITH CABLE SLEEVES >> SCREW BLANK COVER - IP55



Description	Dimensions	GW	IP	Entries	Colour	Code	
JUNCTION BOX	100x100x50mm	GW 650°C	IP55	6xØ29mm		685.004	48
	120x80x50mm	GW 650°C	IP55	6xØ29mm		685.005	54
	150x110x70mm	GW 650°C	IP55	10xØ29mm		685.006¹⁾	40
	190x140x70mm	GW 650°C	IP55	10xØ38mm		685.007¹⁾	24
	240x190x90mm	GW 650°C	IP55	12xØ38mm		685.008^{1) 2)}	12
	300x220x120mm	GW 650°C	IP55	12xØ38mm		685.009^{1) 2)}	6
	380x300x120mm	GW 650°C	IP55	12xØ48mm		685.010^{1) 2)}	4
	460x380x130mm	GW 650°C	IP55	14xØ48mm		685.011^{2) 3)}	





¹⁾ It is possible to use the wall mounting brackets kit item 654.0021 (K1).

²⁾ Suitable for the hinges mounting.

³⁾ It is possible to use the wall mounting brackets kit item 654.0023 (K2).

■ JUNCTION BOXES >> BOX WITH CABLE SLEEVES >> ¼ TURN SCREW BLANK COVER - IP55



Description	Dimensions	GW	IP	Entries	Colour	Code	
JUNCTION BOX	100x100x50mm	GW 650°C	IP55	7xØ29mm		689.004	48
	120x80x50mm	GW 650°C	IP55	6xØ29mm		689.005	54
	150x110x70mm	GW 650°C	IP55	10xØ29mm		689.006	40

■ JUNCTION BOXES >> BOX WITH BLANK SIDES - LOWER BOX >> SCREW BLANK COVER - IP56



Description	Dimensions	GW	IP	Colour	Code	
JUNCTION BOX	100x100x50mm	GW 650°C	IP56	■	686.204	40
	120x80x50mm	GW 650°C	IP56	■	686.205	42
	150x110x70mm	GW 650°C	IP56	■	686.206¹⁾	48
	190x140x70mm	GW 650°C	IP56	■	686.207¹⁾	30
	240x190x90mm	GW 650°C	IP56	■	686.208^{1) 2)}	16
	300x220x120mm	GW 650°C	IP56	■	686.209^{1) 2)}	8
	380x300x120mm	GW 650°C	IP56	■	686.210^{1) 2)}	4
	460x380x130mm	GW 650°C	IP56	■	686.211^{2) 3)}	1

¹⁾ It is possible to use the wall mounting brackets kit item 654.0021 (K1).
²⁾ Suitable for the hinges mounting.
³⁾ It is possible to use the wall mounting brackets kit item 654.0023 (K2).

■ JUNCTION BOXES >> BOX WITH BLANK SIDES - LOWER BOX >> ¼ TURN SCREW BLANK COVER - IP55



Description	Dimensions	GW	IP	Colour	Code	
JUNCTION BOX	100x100x50mm	GW 650°C	IP55	■	689.204	40
	120x80x50mm	GW 650°C	IP55	■	689.205	42
	150x110x70mm	GW 650°C	IP55	■	689.206	48

■ JUNCTION BOXES >> BOX WITH BLANK SIDES - LOWER BOX >> SCREW CLEAR COVER - IP56



Description	Dimensions	GW	IP	Colour	Code	
JUNCTION BOX	100x100x50mm	GW 650°C	IP56	■	686.224	40
	120x80x50mm	GW 650°C	IP56	■	686.225	42
	150x110x70mm	GW 650°C	IP56	■	686.226¹⁾	48
	190x140x70mm	GW 650°C	IP56	■	686.227¹⁾	30
	240x190x90mm	GW 650°C	IP56	■	686.228^{1) 2)}	16
	300x220x120mm	GW 650°C	IP56	■	686.229^{1) 2)}	8
	380x300x120mm	GW 650°C	IP56	■	686.230^{1) 2)}	4
	460x380x130mm	GW 650°C	IP56	■	686.231^{2) 3)}	

¹⁾ It is possible to use the wall mounting brackets kit item 654.0021 (K1).
²⁾ Suitable for the hinges mounting.
³⁾ It is possible to use the wall mounting brackets kit item 654.0023 (K2).

■ JUNCTION BOXES >> BOX WITH BLANK SIDES - HIGHER BOX >> SCREW BLANK COVER - IP56



Description	Dimensions	GW	IP	Colour	Code	
JUNCTION BOX	100x100x80mm	GW 650°C	IP56	■	686.404	24
	240x190x125mm	GW 650°C	IP56	■	686.408²⁾	6
	300x220x170mm	GW 650°C	IP56	■	686.409²⁾	6
	380x300x170mm	GW 650°C	IP56	■	686.410^{1) 2)}	3
	460x380x180mm	GW 650°C	IP56	■	686.411^{2) 3)}	

¹⁾ It is possible to use the wall mounting brackets kit item 654.0021 (K1).
²⁾ Suitable for the hinges mounting.
³⁾ It is possible to use the wall mounting brackets kit item 654.0023 (K2).

JUNCTION BOXES
SCABOX SERIES

Junction boxes

■ JUNCTION BOXES >> BOX WITH BLANK SIDES - HIGHER BOX >> SCREW CLEAR COVER - IP56



Description	Dimensions	GW	IP	Colour	Code	
JUNCTION BOX	100x100x80mm	GW 650°C	IP56		686.424	24
	240x190x125mm	GW 650°C	IP56		686.428²⁾	6
	300x220x170mm	GW 650°C	IP56		686.429²⁾	6
	380x300x170mm	GW 650°C	IP56		686.430^{1) 2)}	1/3
	460x380x180mm	GW 650°C	IP56		686.431^{2) 3)}	

¹⁾ It is possible to use the wall mounting brackets kit item 654.0021 (K1).

²⁾ Suitable for the hinges mounting.

³⁾ It is possible to use the wall mounting brackets kit item 654.0023 (K2).

■ MOUNTING PLATE



Description	Dimensions	Colour	Code	
MOUNTING PLATE	190x140mm		654.0787	1/30
	240x190mm		654.0788	1/20
	300x220mm		654.0789	1/15
	380x300mm		654.0790	1/10
	460x380mm		654.0791	10

■ WALL MOUNTING KIT



Description	Notes	Colour	Code	
FIXING PLUG	ø6mm M7		654.0022	100/2.000

Suitable for SCABOX, CUBIK and CUBOX clipped cover box.



Description	Notes	Colour	Code	
WALL MOUNTING BRACKETS KIT	[4 pz.]		654.0021	10



Description	Notes	Colour	Code	
WALL MOUNTING BRACKETS KIT	[4 pz.]		654.0023	10

■ KIT ACCESSORIES





JUNCTION BOXES
SCABOX SERIES



Description	Notes	Colour	Code	
HINGES KIT			654.0085	20



Description	Notes	Colour	Code	
COVER SEALING KIT	MBOX - SCABOX (2 pz.)		654.0032	25



Description	Notes	Colour	Code	
SEALING CAPS	(12 pz.)		654.0080	10/100

For providing total insulation e according to EN 60439-1.
Only for surface mounting enclosure.



CUBIK Series

CUBIK is a range of junction boxes made of impact-resistant and self-extinguishing thermoplastic material.

The high resistance to heat (GW 960 °C), is clearly identified by the red color of the housing.

The base-cover coupling is guaranteed by plastic quarter-turn captive screws, while the IP rating is ensured by the co-molded gasket, integral with the cover and unlosable, for a constant protection against dust and liquids over time.

technical sheet p. 845

■ BOX WITH CABLE SLEEVES (CLIPPED COVER) - IP55 >> GLOW WIRE 960°C



Description	Dimensions	GW	IP	Entries	Colour	Code	
JUNCTION BOX	80x80x40mm	GW 960°C	IP55	7xØ23mm		688.003.R ¹⁾	60
	80x80x40mm	GW 960°C	IP55	7xØ23mm		688.003	60
	ø65x40mm	GW 960°C	IP55	4xØ23mm		688.001	100
	ø80x40mm	GW 960°C	IP55	4xØ23mm		688.002	100

¹⁾Box base red colored.

■ BOX WITH CABLE SLEEVES (¼ TURN PLASTIC SCREW COVER) - IP55 >> GLOW WIRE 960°C



Description	Dimensions	GW	IP	Entries	Colour	Code	
JUNCTION BOX	100x100x50mm	GW 960°C	IP55	7xØ29mm		688.004.R ¹⁾	48
	100x100x50mm	GW 960°C	IP55	7xØ29mm		688.004	48
	120x80x50mm	GW 960°C	IP55	6xØ29mm		688.005.R ¹⁾	54
	120x80x50mm	GW 960°C	IP55	6xØ29mm		688.005	54
	150x110x70mm	GW 960°C	IP55	10xØ29mm		688.006.R ¹⁾	40
	150x110x70mm	GW 960°C	IP55	10xØ29mm		688.006	40

¹⁾Box base red colored.

■ BOX WITH BLANK SIDES (¼ TURN PLASTIC SCREW COVER) - IP55 >> GLOW WIRE 960°C



Description	Dimensions	GW	IP	Colour	Code	
JUNCTION BOX	100x100x50mm	GW 960°C	IP55		688.204.R ¹⁾	40
	100x100x50mm	GW 960°C	IP55		688.204	40
	120x80x50mm	GW 960°C	IP55		688.205.R ¹⁾	42
	120x80x50mm	GW 960°C	IP55		688.205	42
	150x110x70mm	GW 960°C	IP55		688.206.R ¹⁾	48
	150x110x70mm	GW 960°C	IP55		688.206	48

¹⁾Box base red colored.

■ KIT ACCESSORIES



Description	Notes	Colour	Code	
FIXING PLUG	ø6mm M7		654.0022	100/2.000

Suitable for SCABOX, CUBIK and CUBOX clipped cover box.



WBOX Series

WBOX is a range of flush-mounting junction boxes made of high-strength technopolymer, used for diverting in industry, tertiary and domestic sector.

The WBOX series is completed by a wide range of accessories and spare parts such as covers, protective covers and internal separators available in different sizes.

technical sheet p. 858

■ TELEPHONE FLUSH MOUNTING BOX



Description	Dimensions	Colour	Code	
FLUSH MOUNTING BOX	70x70mm		875.4301	12/60

Provided complete with box, cover and screws.

■ FLUSH MOUNTING ROUND BOX Ø65MM >> FLUSH JUNCTION BOXES



Description	Dimensions	Colour	Code	
FLUSH MOUNTING BOX	ø65mm		875.4201	500

Provided without cover and screw.

■ FLUSH MOUNTING ROUND BOX Ø65MM >> COVER



Description	Dimensions	Colour	Code	
COVER WITH FASTENERS	ø65mm		875.4501	50/600
	ø80mm		875.4502	40/480

Supplied as spare parts.

Junction boxes

■ FLUSH MOUNTING BOX 3 MODULES >> FLUSH MOUNTING JUNCTION BOXES



Description	Dimensions	Colour	Code	
FLUSH MOUNTING BOX	83,5mm		875.4303	300

Provided without cover and screw.
Suitable for UNIBOX Series frame (ref. 136.5023 and 136.5023.AT).

■ FLUSH MOUNTING BOX 3 MODULES >> COVER (SCREWS NOT INCLUDED)



Description	Dimensions	Colour	Code	
COVER	83,5mm		180.692	12/72

■ FLUSH MOUNTING BOX 3 MODULES >> PROTECTIVE COVER



Description	Dimensions	Colour	Code	
PROTECTIVE COVER	108x74mm		875.4603	120

For 3-module boxes item 875.4303.
Clip cover.

■ FLUSH MOUNTING JUNCTION BOXES >> FLUSH MOUNTING JUNCTION BOXES



Description	Dimensions	Colour	Code	
FLUSH MOUNTING BOX	92x92x45mm		875.4410	170
	118x96x50mm		875.4411	120
	118x96x70mm		875.4411P	90
	153x98x70mm		875.4412	70
	160x130x70mm		875.4413	44
	196x152x70mm		875.4414 ¹⁾	40
	294x152x70mm		875.4415 ¹⁾	24
	392x152x70mm		875.4416 ¹⁾	20
	480x160x70mm		875.4417 ¹⁾	12

Provided complete with box, cover and screws.

¹⁾ Provided without separator.

■ FLUSH MOUNTING JUNCTION BOXES >> SEPARATOR



Description	Dimensions	Colour	Code	
SEPARATOR	152mm		875.4490	25/200
	160mm		875.4491	25/200

Application: to divide electric circuits.

■ FLUSH MOUNTING JUNCTION BOXES >> COVER (SCREWS NOT INCLUDED)



Description	Dimensions	Colour	Code	
COVER (WITHOUT SCREWS)	92x92mm		875.4510	100
	118x96mm		875.4511	160
	153x98mm		875.4512	140
	160x130mm		875.4513	80
	196x152mm		875.4514	60
	294x152mm		875.4515	40
	392x152mm		875.4516	30
	480x160mm		875.4517	24
SCREWS FOR COVERS	3x19mm		875.4500	1/120

■ FLUSH MOUNTING JUNCTION BOXES >> PROTECTIVE COVER



Description	Dimensions	Colour	Code	
PROTECTIVE COVER	92x92mm		875.4610	100
	118x96mm		875.4611	160
	153x98mm		875.4612	140
	160x130mm		875.4613	80
	196x152mm		875.4614	60
	294x152mm		875.4615	40
	392x152mm		875.4616	30
	480x160mm		875.4617	24


Clip cover.



ALUBOX Series









ALUBOX is a range of die-cast aluminum junction boxes designed to meet specific requirements in terms of robustness.

Due to its high mechanical strength and resistance to climatic and environmental stresses, the ALUBOX series is particularly suitable for installation in aggressive environments such as heavy industry, on-board installation for industrial automation, in thermal, chemical and petrochemicals plants.

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ENCLOSURES - IP66/IP67



Description	Dimensions	IP	Colour	Code	
JUNCTION BOX	100x100x58mm	IP66/IP67/IP69		653.00 ¹⁾	1/32
	140x115x60mm	IP66/IP67/IP69		653.01 ¹⁾	1/24
	166x142x64mm	IP66/IP67/IP69		653.02 ¹⁾	1/16
	192x168x80mm	IP66/IP67/IP69		653.03 ²⁾	1/12
	253x217x93mm	IP66/IP67/IP69		653.04 ²⁾	1/6
	314x264x122mm	IP66/IP67/IP69		653.05 ²⁾	1/2
	410x315x150mm	IP66/IP67		653.07 ²⁾	1

Enclosure and cover in die-cast aluminium.

Externally varnished.








With stainless steel screws for attaching cover and self-tapping zinccoated steel screws for earthing the enclosure and cover.

¹⁾ Counter-sunk head screw.

²⁾ Flat head screw.

MOUNTING PLATES











Description	Dimensions	Colour	Code	
MOUNTING PLATE	140x115x60mm		653.011	1/40
	166x142x64mm		653.012	1/20
	192x168x80mm		653.013	1/20
	253x217x93mm		653.014	1/10
	314x264x122mm		653.015	1/10
	410x315x150mm		653.017	1/5

Zinc-coated steel plate.

With zinc-coated steel self-tapping screws for attaching the plate.

DIN RAIL KIT



Description	Dimensions	Colour	Code	
DIN RAIL KIT	100x100x58mm		653.020	1/25
	140x115x60mm		653.021	1/25
	166x142x64mm		653.022	1/20
	192x168x80mm		653.023	1/25
	253x217x93mm		653.024	1/20
	314x264x122mm		653.025	1/30
	410x315x150mm		653.027	1/50



BEEBOX Series

BEEBOX is a range of surface mounting enclosures made of shockproof and self-extinguishing technopolymer with reversible honeycomb cover. Available in three different sizes: single, double and quadruple.

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ENCLOSURES



Description	Dimensions	IP	Colour	Code	
SURFACE MOUNTING ENCLOSURE	150x200x40mm	IP41		639.1040	26
	150x200x60mm	IP41		639.1060	38
	150x200x80mm	IP41		639.1080	25
	200x300x120mm	IP41		639.2120	8
	200x300x40mm	IP41		639.2040	24
	200x300x60mm	IP41		639.2060	18
	200x300x80mm	IP41		639.2080	12
	300x400x120mm	IP41		639.4120	4
	300x400x60mm	IP41		639.4060	8
	300x400x80mm	IP41		639.4080	6

With honeycomb front panel.

1.6 EMPTY ENCLOSURES
Distribution assemblies



DISTRIBUTION ASSEMBLIES

MBOX SERIES

p. 434

Empty enclosures for distribution assemblies for construction site



IMPACT SERIES

p. 438

Shockproof empty enclosures for distribution assemblies



DOMINO IP66 SERIES

p. 440

Empty enclosures for modular distribution assemblies



BLOCK SERIES

p. 458

Empty enclosures for compact distribution assemblies



ENERBOX SERIES

p. 466

Empty enclosures for distribution assemblies with front and side sockets



ADAPTO SERIES

p. 469

Empty enclosures for suspended distribution assemblies






MBOX Series

MBOX is a range of empty enclosures made of shock-resistant thermoplastic material for distribution assemblies for construction site. The series includes three different enclosures: MBOX2, MBOX3 and MBOX5 with IP66 protection rating. The extreme compactness of the enclosures and the retractable handle make the distribution assembly easily transportable inside the construction site area.

The high number of DIN modules that can be installed makes the MBOX series extremely flexible and suitable to meet all system requirements.


MBOX distribution assemblies can be equipped with industrial sockets, watertight domestic socket outlets or with interlocked socket outlets up to 63A.

 technical sheet p. 856

■ EMPTY ENCLOSURES - MBOX2 >> EMPTY ENCLOSURES



IP: IP66

Dimensions	Type	Notes	No. modules	Power	Code	
440x365x290mm	WITHOUT DOOR	4 OMNIA	16 DIN (2x8)	27W	656.0024-000	1
440x365x290mm	WITHOUT DOOR	4 OMNIA + KIT LUX	16 DIN (2x8)	27W	656.0024-000L ²⁾	1
440x365x290mm	WITHOUT DOOR	6 OPTIMA	16 DIN (2x8)	29W	656.0026-000 ¹⁾	1
440x365x290mm	WITHOUT DOOR	6 OPTIMA + KIT LUX	16 DIN (2x8)	29W	656.0026-000L ^{1) 2)}	1

Power dissipation calculated in conformity with CEI 23-49 italian standards.


¹⁾With cut-outs to contain 16A (70x87mm) socket or, with suitable adaption, 32A (84x106mm) socket and DOMOPLUS Series.

²⁾Complete with lights kit.

■ EMPTY ENCLOSURES - MBOX2 >> EMPTY ENCLOSURES - WITH EMERGENCY PUSH BUTTON



IP: IP66

Dimensions	Type	Notes	No. modules	Power	Code	
440x365x290mm	WITHOUT DOOR	4 OMNIA	16 DIN (2x8)	27W	656.0924-000	1
440x365x290mm	WITHOUT DOOR	4 OMNIA + KIT LUX	16 DIN (2x8)	27W	656.0924-000L ²⁾	1
440x365x290mm	WITHOUT DOOR	6 OPTIMA	16 DIN (2x8)	29W	656.0926-000 ¹⁾	1
440x365x290mm	WITHOUT DOOR	6 OPTIMA + KIT LUX	16 DIN (2x8)	29W	656.0926-000L ^{1) 2)}	1

Power dissipation calculated in conformity with CEI 23-49 italian standards.

¹⁾With cut-outs to contain 16A (70x87mm) socket or, with suitable adaption, 32A (84x106mm) socket and DOMOPLUS Series.

²⁾Complete with lights kit.

■ EMPTY ENCLOSURES - MBOX3 >> EMPTY ENCLOSURES


Dimensions	Type	Notes	No. modules	Code	
475x520x380mm	WITH DOOR	6 OMNIA	39 DIN (3x13)	657.0036-000	1
475x520x380mm	WITH DOOR	9 OPTIMA	39 DIN (3x13)	657.0038-000¹⁾	1
475x520x380mm	WITHOUT DOOR	4+1 63A OMNIA	39 DIN (3x13)	657.0035-000	1

Power dissipation calculated in conformity with CEI 23-49 italian standards.
 Complete with lights kit.

¹⁾With cut-outs to contain 16A (70x87mm) socket or, with suitable adaption, 32A (84x106mm) socket and DOMOPLUS Series.

IP: IP66
■ EMPTY ENCLOSURES - MBOX3 >> EMPTY ENCLOSURES - WITH EMERGENCY PUSH BUTTON


Dimensions	Type	Notes	No. modules	Code	
475x520x380mm	WITH DOOR	6 OMNIA	39 DIN (3x13)	657.0936-000	1
475x520x380mm	WITH DOOR	9 OPTIMA	39 DIN (3x13)	657.0938-000¹⁾	1
475x520x380mm	WITHOUT DOOR	4+1 63A OMNIA	39 DIN (3x13)	657.0935-000	1

Power dissipation calculated in conformity with CEI 23-49 italian standards.
 Complete with lights kit.

¹⁾With cut-outs to contain 16A (70x87mm) socket or, with suitable adaption, 32A (84x106mm) socket and DOMOPLUS Series.

IP: IP66
■ EMPTY ENCLOSURES - MBOX5 >> EMPTY ENCLOSURES


Dimensions	Type	Notes	No. modules	Code	
785x670x400mm	WITH DOOR	12 OMNIA	52 DIN (4x13)	658.0050-000	1

Power dissipation calculated in conformity with CEI 23-49 italian standards.
 Complete with lights kit.

IP: IP66
■ EMPTY ENCLOSURES - MBOX5 >> EMPTY ENCLOSURES - WITH EMERGENCY PUSH BUTTON


Dimensions	Type	Notes	No. modules	Code	
785x670x400mm	WITH DOOR	12 OMNIA	52 DIN (4x13)	658.0950-000	1

Power dissipation calculated in conformity with CEI 23-49 italian standards.
 Complete with lights kit.

IP: IP66

■ ACCESSORIES FOR ENCLOSURES >> DISCONNECTOR KIT - MBOX3



Description	Dimensions	Type	Notes	Code	
ISOLATOR KIT	MBOX3	WITH DOOR	100A	657.0343	1/10
	MBOX3	WITH DOOR	16-32-40A	657.0341	1/10
	MBOX3	WITH DOOR	63-80A	657.0342	1/10
	MBOX3	WITHOUT DOOR	100A	657.0333	1/10
	MBOX3	WITHOUT DOOR	16-32-40A	657.0331	1/10
	MBOX3	WITHOUT DOOR	63-80A	657.0332	1/10

Disconnecting kit complete with: yellow faceplate and handle. Suitable for backpanel switches 590.YA... (not provided).

■ ACCESSORIES FOR ENCLOSURES >> DISCONNECTOR KIT - MBOX5



Description	Dimensions	Type	Notes	Code	
ISOLATOR KIT	MBOX5	WITH DOOR	100A	658.0363	1/10
	MBOX5	WITH DOOR	16-32-40A	658.0361	1/10
	MBOX5	WITH DOOR	63-80A	658.0362	1/10
	MBOX5	WITHOUT DOOR	100A	658.0353	1/10
	MBOX5	WITHOUT DOOR	16-32-40A	658.0351	1/10
	MBOX5	WITHOUT DOOR	63-80A	658.0352	1/10

Disconnecting kit complete with: yellow faceplate and handle. Suitable for backpanel switches 590.YA... (not provided).

■ ACCESSORIES FOR ENCLOSURES >> YALE KEY KIT



Description	Suitable for	Code	
YALE KEY KIT	DOMINO IP40 MBOX (WIN)	654.0072 ^{1) 2)}	10
	MBOX3-5 (DOOR)	654.0071	10
LOCK KIT	MBOX3-5 (DOOR)	654.0078	1/10

¹⁾For door (2 pieces).

²⁾For DIN window. Unique Yale keys, the same key opens all locks.

■ ACCESSORIES FOR ENCLOSURES >> FUSE-TESTING KIT



Description	Dimensions	Code	
FUSE CHECKER	440x365x290mm	656.0420	1/10
	475x520x380mm	657.0421	1/10
	785x670x400mm	658.0422	1/10

Fuse-testing kit composed of fuse-testing device (654.0010) and facing with seat for fuse-tester and spare fuses.

■ ACCESSORIES FOR ENCLOSURES >> STAND KIT



Description	Suitable for	Dimensions	Code	
STAND KIT	MBOX2	440x365x290mm	656.0120	1
	MBOX3 MBOX5	656(M3)/916(M5)x695x1413mm	657.0121	1

■ ACCESSORIES FOR ENCLOSURES >> TURRET FIXING



Description	Dimensions	Code	
TURRET FIXING KIT	440x365x290mm	656.0220	1
MOUNTING/FIXING PLATE	440x365x290mm	656.0222	1
BACK CLOSING PLATE	440x365x290mm	656.0221	1

■ ACCESSORIES FOR ENCLOSURES >> ACCESSORIES AND COMPONENTS



Description	Suitable for	Code	
CABLE SUPPORT KIT	MBOX2	654.0051	1/10
ACCESSORIES KIT	MBOX3 MBOX5	654.0002 ¹⁾	1/10
WALL MOUNTING BRACKETS KIT	MBOX2 MBOX3 MBOX5	654.0024	1/10
LIGHT KIT FOR MBOX	MBOX2 MBOX3 MBOX5	654.0003	1/10

¹⁾ The kit includes: 5x35mm² terminal block, M40 cable gland, wall mounting brackets, blank plate for 4 DIN modules.

■ ACCESSORIES FOR ENCLOSURES >> APPLIANCE INLETS (KIT)



Poles	h	Volt	63A		125A	
3P+E	6	380-415	654.906396	1	654.912596	1
3P+N+E	6	346-415	654.906397	1	654.912597	1



IP: IP67




IMPACT Series

IMPACT is a range of empty enclosures for distribution assemblies in non-deformable rubber or polyethylene, self-extinguishing and with high resistance to impact and atmospheric and chemical agents.

The IMPACT Series enclosures guarantee safe use in the most adverse environmental conditions and in the presence of strong mechanical stresses, even continuous.


The black color of the enclosures makes them suitable also for use in the public entertainment sector where they are appreciated for their ease of movement through their comfortable handles.

Available in single-sided and double-sided version for the installation of industrial or domestic socket outlets.

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■ EMPTY ENCLOSURES >> TYPE 1



IP	Dimensions	Notes	No. modules	Code	
IP65	400x400x275mm	PORTABLE WITH HANDLE	2x12 MOD.	692.4201-00	1


■ EMPTY ENCLOSURES >> TYPE 2



IP	Dimensions	Notes	Code	
IP65	235x235x180mm	PORTABLE WITH HANDLE	692.4202-00	1


■ EMPTY ENCLOSURES >> TYPE 3



IP	Dimensions	Notes	No. modules	Code	
IP65	270x270x231mm	PORTABLE WITH HANDLE	10 MOD.	692.4203-00	1

■ EMPTY ENCLOSURES >> TYPE 4



IP	Dimensions	Notes	Code	
IP65	210x260x98mm	EMPTY ENCLOSURE	692.4204-00	1
	230x130x70mm	PORTABLE WITH HANDLE	692.4206-00	1
	380x130x83mm	PORTABLE WITH HANDLE	692.4205-00	1

■ EMPTY ENCLOSURES >> TYPE A - ONE FRONT UNITS



IP	Installation	Dimensions	No. modules	Power	Code	
IP54	PORTABLE	380x260x130mm	12 MOD.	20W	690.4200-00 ¹⁾	1
IP65	SURFACE MOUNTING	380x260x130mm	12 MOD.	20W	692.4200-00	1

¹⁾ Complete with handle (supplied in the accessory kit).

■ EMPTY ENCLOSURES >> TYPE B - TWO FRONT UNITS



IP	Installation	Dimensions	No. modules	Power	Code	
IP65	ON TURRET	325x260x196mm	8 MOD.	14W	692.4300-00	1

■ ACCESSORIES FOR ENCLOSURES >> KIT TUBULAR STAND



Description	Installation	Code	
TUBULAR STAND	ON TURRET	692.4330	1

■ ACCESSORIES FOR ENCLOSURES >> HANDLE KIT A



Description	Suitable for	Code	
HANDLE KIT	DOMINO IP66 GOMMA	654.0060	10

■ ACCESSORIES FOR ENCLOSURES >> KIT WINDOW A




Description	Installation	IP	Notes	No. modules	Code	
KIT FOR PADLOCKING					654.0077	1/10
WINDOW KIT	FLUSH MOUNTING	IP65	+ KIT DIN	6 MOD.	654.0141-06	10
	FLUSH MOUNTING	IP65	+ KIT DIN	8 MOD.	654.0141-08	10
	FLUSH MOUNTING	IP65	+ KIT DIN	12 MOD.	654.0141-12	10
	FLUSH MOUNTING	IP65		6 MOD.	654.0140-06	10
	FLUSH MOUNTING	IP65		8 MOD.	654.0140-08	10
	FLUSH MOUNTING	IP65		12 MOD.	654.0140-12	10
SCREW KNOBS KIT					654.0140	50





DOMINO IP66 Series

DOMINO IP66 is a complete range of watertight consumer units for surface installation, from 2 up to 64 DIN modules, modular and combinable, DOMINO IP66 consumer units are characterized by a high flexibility of use and considerable expansion possibilities.

 technical sheet p. 847

Technical information

Main characteristics



01 Window equipped with triangular key (Yale key on request)

02 Enclosure in halogen-free materials

03 Rapid lead captive stainless steel screws (sealing kit on request)

04 Base-cover coupling by means of hinges

05 Blank front panel or with cut-outs to install:

- OPTIMA Series industrial sockets up to 63A
- IP54 DOMO Series / IP66 DOMOPLUS Series domestic sockets
- OMNIA Series interlocked industrial sockets up to 63A / OMNIAPLUS Series interlocked domestic sockets

06 Spacious enclosure to facilitate cabling operations

07 Blank sides with drilling point marks

Compatibility

Flush mounting industrial socket outlets



Flush mounting domestic socket outlets



Flush mounting switched interlocked socket outlets




Modularity

The distribution assemblies and consumer units of the DOMINO IP66 Series are characterized by mutually modular elements. What defines the modularity is the height (M) of the enclosure or its width (DIN). Distribution assemblies and consumer units with the same height can be placed side by side and connected to each other by means of specific connection kits. Distribution assemblies and consumer units with the same width can be put on top each other always by means of specific connection kits.

	4 DIN	8 DIN	12 DIN	16 DIN	24 DIN
M150			672.1001 672.1301	672.1300 672.1200 672.1100	
M190	672.2004	672.2008			
M250			672.2012	672.2016	
M340		672.2300 672.2301 672.2200 672.2100			
M400			672.3300 672.3302 672.3200 672.3100 672.4024	672.4316 672.4216 672.4116 672.4032	
M550				672.5616 672.5416 672.5316 672.5116 672.5048	672.5822 672.5522 672.5622 672.5122
M700				672.7064	


MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH BLANK FRONT PANEL >> M150 >> BOX


Installation	Dimensions (hxbxd)	Power	Code	
SURFACE MOUNTING	150x256x115mm	18W	672.1101	1/6
	150x328x115mm	20W	672.1100	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66


MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH BLANK FRONT PANEL >> M340 >> 8 DIN


Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	340x184x106mm	8 MOD.	14W	672.2100	1/10

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66

MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH BLANK FRONT PANEL >> M400 >> 12 DIN



Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	400x256x140mm	12 MOD.	22W	672.3100	1/6
	400x256x140mm	12 MOD.	22W	672.3100.1102¹⁾	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66

MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH BLANK FRONT PANEL >> M400 >> 16 DIN


Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	400x328x140mm	16 MOD.	28W	672.4116	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66

■ MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH BLANK FRONT PANEL >> M550 >> 16 DIN



Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	550x328x140mm	16 MOD.	28W	672.5116	1/3
	550x328x140mm	16 MOD.	28W	672.5116.1102¹⁾	1/3

Power dissipation calculated in conformity with CEI 23-49 italian standards.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66

■ MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH BLANK FRONT PANEL >> M550 >> 24 DIN



Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	550x477x150mm	24 MOD.	28W	672.5122.1102¹⁾	1/3
	550x477x150mm	24 MOD.	36W	672.5122	1/3

Power dissipation calculated in conformity with CEI 23-49 italian standards.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66

■ MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OMNIA SERIES CUTOUTS >> M150 >> 2 OMNIA



Installation	Dimensions (hxbxd)	Power	Code	
SURFACE MOUNTING	150x328x115mm	20W	672.1200	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66

■ MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OMNIA SERIES CUTOUTS >> M340 >> 1 OMNIA - 8 DIN




Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	340x184x106mm	8 MOD.	14W	672.2200	1/10

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66




MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OMNIA SERIES CUTOUTS >> M400 >> 1 OMNIA - 12 DIN


Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	400x256x140mm	12 MOD.	22W	672.3200	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66


MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OMNIA SERIES CUTOUTS >> M400 >> 2 OMNIA - 16 DIN


Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	400x328x140mm	16 MOD.	28W	672.4216	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66


MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OMNIA SERIES CUTOUTS >> M550 >> 4 OMNIA - 16 DIN


Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	550x328x140mm	16 MOD.	28W	672.5416	1/3

Power dissipation calculated in conformity with CEI 23-49 italian standards.
Connection device to be fixed in the upper side.

IP: IP66

MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OMNIA SERIES CUTOUTS >> M550 >> 4 OMNIA + 2 OPTIMA - 24 DIN


Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	550x477x150mm	24 MOD.	36W	672.5622	1/3

Power dissipation calculated in conformity with CEI 23-49 italian standards.
Connection device to be fixed in the upper side.
With cutouts to contain 4 OMNIA Series 16A or 32A and 2 OPTIMA Series 16A or 32A.

IP: IP66

■ MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OMNIA SERIES CUTOUTS >> M550 (63A) >> 2+1(63A) OMNIA - 16 DIN



Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	550x328x140mm	16 MOD.	28W	672.5316	1/3

Power dissipation calculated in conformity with CEI 23-49 italian standards.
 Connection device to be fixed in the upper side.
 With cutouts to contain 2 OMNIA Series 16A or 32A and 1 OMNIA Series 63A.

IP: IP66



■ MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OMNIA SERIES CUTOUTS >> M550 (63A) >> 4+1(63A) OMNIA - 24 DIN



Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	550x477x150mm	24 MOD.	36W	672.5522	1/3

Power dissipation calculated in conformity with CEI 23-49 italian standards.
 Connection device to be fixed in the upper side.
 With cutouts to contain 4 OMNIA Series 16A or 32A and 1 OMNIA Series 63A.

IP: IP66

■ MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OPTIMA SERIES CUTOUTS >> M150 >> 2 SOCKETS



Installation	Dimensions (hxbxd)	Power	Code	
SURFACE MOUNTING	150x256x115mm	18W	672.1301	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.
 With cut-outs to contain 16A (70x87mm) socket or, with suitable adaption, 32A (84x106mm) socket and DOMOPLUS Series.

IP: IP66

■ MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OPTIMA SERIES CUTOUTS >> M150 >> 3 SOCKETS




Installation	Dimensions (hxbxd)	Power	Code	
SURFACE MOUNTING	150x328x115mm	20W	672.1300	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.
 With cut-outs to contain 16A (70x87mm) socket or, with suitable adaption, 32A (84x106mm) socket and DOMOPLUS Series.

IP: IP66

MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OPTIMA SERIES CUTOUTS >> M340 >> 2 SOCKETS - 8 DIN



Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	340x184x106mm	8 MOD.	14W	672.2300	1/10
	340x184x106mm	8 MOD.	14W	672.2300.1102¹⁾	1/10

Power dissipation calculated in conformity with CEI 23-49 italian standards.
With cut-outs to contain 16A (70x87mm) socket and DOMOPLUS Series.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66

MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OPTIMA SERIES CUTOUTS >> M340 >> 1 SOCKET 32A - 8 DIN



Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	340x184x106mm	8 MOD.	14W	672.2301	1/10
	340x184x106mm	8 MOD.	14W	672.2301.1102¹⁾	1/10

Power dissipation calculated in conformity with CEI 23-49 italian standards.
With cut-outs to contain 32A (84x106mm) socket.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66

MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OPTIMA SERIES CUTOUTS >> M400 >> 2 SOCKETS - 12 DIN


Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	400x256x140mm	12 MOD.	22W	672.3300²⁾	1/6
	400x256x140mm	12 MOD.	22W	672.3300.1102¹⁾	1/6


Power dissipation calculated in conformity with CEI 23-49 italian standards.
With cut-outs to contain 16A (70x87mm) socket or, with suitable adaption, 32A (84x106mm) socket and DOMOPLUS Series.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

²⁾Connection device to be fixed in the upper side.

IP: IP66

MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OPTIMA SERIES CUTOUTS >> M400 >> 1 SOCKET 63A - 12 DIN


Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	400x256x140mm	12 MOD.	22W	672.3302	1/6
	400x256x140mm	12 MOD.	22W	672.3302.1102¹⁾	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.
With cut-outs to contain 63A (100x110mm) socket.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66

■ MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OPTIMA SERIES CUTOUTS >> M400 >> 3 SOCKETS - 16 DIN



Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	400x328x140mm	16 MOD.	28W	672.4316	1/4
	400x328x140mm	16 MOD.	28W	672.4316.1102¹⁾	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.
With cut-outs to contain 16A (70x87mm) socket or, with suitable adaption, 32A (84x106mm) socket and DOMOPLUS Series.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66

■ MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OPTIMA SERIES CUTOUTS >> M550 >> 6 SOCKETS - 16 DIN



Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	550x328x140mm	16 MOD.	28W	672.5616	1/3
	550x328x140mm	16 MOD.	28W	672.5616.1102¹⁾	1/3

Power dissipation calculated in conformity with CEI 23-49 italian standards.
With cut-outs to contain 16A (70x87mm) socket or, with suitable adaption, 32A (84x106mm) socket and DOMOPLUS Series.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66

■ MODULAR ENCLOSURES - IP66 >> ENCLOSURES WITH OPTIMA SERIES CUTOUTS >> M550 >> 8 SOCKETS - 24 DIN



Installation	Dimensions (hxbxd)	No. modules	Power	Code	
SURFACE MOUNTING	550x477x150mm	24 MOD.	28W	672.5822.1102¹⁾	1/3
	550x477x150mm	24 MOD.	36W	672.5822	1/3


Power dissipation calculated in conformity with CEI 23-49 italian standards.
With cut-outs to contain 16A (70x87mm) socket or, with suitable adaption, 32A (84x106mm) socket and DOMOPLUS Series.

¹⁾.1102: tinted window (standard), with label, with triangular key, with 2 IP00 terminal blocks (5x10mm² - 5x16mm²).

IP: IP66



MODULAR ENCLOSURES - IP66 >> SINGLE COMPONENTS >> M150(X256) >> BASE


Installation	Dimensions (hxbxd)	Code	
SURFACE MOUNTING	150x256x115mm	674.1001	6

MODULAR ENCLOSURES - IP66 >> SINGLE COMPONENTS >> M150(X256) >> BLANK COVER


Dimensions (hxb)	Code	
150x256mm	674.1101	6

MODULAR ENCLOSURES - IP66 >> SINGLE COMPONENTS >> M150(X256) >> 2 SOCKETS 70X87MM


Dimensions (hxb)	Code	
150x256mm	674.1301	6

With cut-outs to contain 16A (70x87mm) socket or, with suitable adaption, 32A (84x106mm) socket and DOMOPLUS Series.

MODULAR ENCLOSURES - IP66 >> SINGLE COMPONENTS >> M150(X328) >> BASE


Installation	Dimensions (hxbxd)	Code	
SURFACE MOUNTING	150x328x115mm	674.1000	6

MODULAR ENCLOSURES - IP66 >> SINGLE COMPONENTS >> M150(X328) >> BLANK COVER


Dimensions (hxb)	Code	
150x328mm	674.1100	6

MODULAR ENCLOSURES - IP66 >> SINGLE COMPONENTS >> M150(X328) >> 2 OMNIA


Dimensions (hxb)	Code	
150x328mm	674.1200	6

MODULAR ENCLOSURES - IP66 >> SINGLE COMPONENTS >> M150(X328) >> 3 SOCKETS 70X87MM


Dimensions (hxb)	Code	
150x328mm	674.1300	6

With cut-outs to contain 16A (70x87mm) socket or, with suitable adaption, 32A (84x106mm) socket and DOMOPLUS Series.

ACCESSORIES FOR MODULAR ENCLOSURES >> PLATE FOR POLE MOUNTING


Description	Suitable for	Dimensions	Code	
MOUNTING/FIXING PLATE	DOMINO IP66 M340	DOMINO M340 [8DIN]	654.0655	4
	DOMINO IP66 M400	DOMINO M400 [12DIN]	654.0657	1
	DOMINO IP66 M400	DOMINO M400 [16DIN]	654.0651	1
	DOMINO IP66 M550	DOMINO M550 [16DIN]	654.0652	2
	DOMINO IP66 M700	DOMINO M700 [16DIN]	654.0656	4

ACCESSORIES FOR MODULAR ENCLOSURES >> PLATE WITH ROOF FOR POLE FIXING


Description	Suitable for	Dimensions	Code	
PLATE WITH PROTECTION ROOF	DOMINO IP66 M400	DOMINO M400 [16DIN]	654.0653	2
	DOMINO IP66 M550	DOMINO M550 [16DIN]	654.0654	2

■ ACCESSORIES FOR MODULAR ENCLOSURES >> TUBULAR SUPPORT




Description	Suitable for	Dimensions	Code	
METAL POLE	DOMINO IP66	ø80xh1250mm	654.0650	1

■ ACCESSORIES FOR MODULAR ENCLOSURES >> WALL MOUNTING BRACKETS KIT




Description	Installation	Suitable for	Notes	Code	
WALL MOUNTING BRACKETS KIT	SURFACE MOUNTING	DOMINO IP66	(4 pz.)	654.0020	10




Description	Installation	Suitable for	Notes	Code	
WALL MOUNTING BRACKETS KIT		SCABOX K2 DOMINO IP66 24 DIN	(4 pz.)	654.0023	10

■ ACCESSORIES FOR MODULAR ENCLOSURES >> ZINC-COATED STEEL MOUNTING PLATE



Description	Suitable for	Dimensions	Code	
MOUNTING PLATE	DOMINO IP66 M190	275x110mm	654.0700	1



Description	Suitable for	Dimensions	Code	
MOUNTING PLATE	DOMINO IP66 M250	275x180mm	654.0710	1/10

Can be mounted in DOMINO IP66 M400 and M550 enclosures
The plate comes with slots for fitting the safety transformer through cable ties (item 654.0210 or 654.0220).

ACCESSORIES FOR MODULAR ENCLOSURES >> CONNECTION KIT


Description	Suitable for	Notes	Code	
CONNECTION KIT	DOMINO IP66	PG21	654.0038	25
	DOMINO IP66	PG36	654.0040	25

ACCESSORIES FOR MODULAR ENCLOSURES >> STAND KIT


Description	Suitable for	Dimensions	Code	
STAND KIT	DOMINO IP66 M550 (16 DIN)	320x794x320mm	654.0615	1



Description	Suitable for	Dimensions	Code	
STAND KIT	DOMINO IP66 M550 - OMNIA OMNIA	376x691x70mm	654.0610	1
Folding				

ACCESSORIES FOR MODULAR ENCLOSURES >> COVER SEALING KIT (2 PIECES)


Description	Suitable for	Code	
COVER SEALING KIT	DOMINO IP66	654.0030	25

ACCESSORIES FOR MODULAR ENCLOSURES >> YALE KEY KIT


Description	Suitable for	Code	
YALE KEY KIT	DOMINO IP66	654.0070	10

For door (2 pieces).
 Unique Yale keys, the same key opens all locks.



■ ACCESSORIES FOR MODULAR ENCLOSURES >> HANDLE KIT





Description	Suitable for	Code	
HANDLE KIT	DOMINO IP66 GOMMA	654.0060	10

■ ACCESSORIES FOR MODULAR ENCLOSURES >> RIDGET PROFILE FOR DIN RAIL





Description	Suitable for	Notes	No. modules	Dimensions	Colour	Code	
DIN RAIL BRACKET	1 x EVOLUTION		1 MOD.	28,5mm		654.0091	12/120



Description	Suitable for	Notes	No. modules	Dimensions	Colour	Code	
DIN RAIL BRACKET	2 x EVOLUTION		2 MOD.	53mm		654.0092	12/120



Description	Suitable for	Notes	No. modules	Dimensions	Colour	Code	
RIDGED PROFILE FOR DIN RAIL		ELEVATION 18mm - LENGTH 320mm		DIN 35x7,5mm OMEGA		654.0090	20/100

■ ACCESSORIES FOR MODULAR ENCLOSURES >> DIN RAIL ADJUSTABLE HEIGHT



Description	Notes	No. modules	Code	
DIN RAIL KIT	DOMINO IP66	12 MOD.	654.0751	10
	DOMINO IP66	16 MOD.	654.0750	10
	DOMINO IP66	24 MOD.	654.0753	10
	DOMINO IP66	2x12 MOD.	654.0752	10

With mounting brackets.

■ ACCESSORIES FOR MODULAR ENCLOSURES >> BLANK PLATE FOR DIN MODULES



Description	Notes	No. modules	Code	
BLANK PLATE FOR DIN MODULES	9x45mm	1/2 MOD.	654.0420	25/400

When put between the modular devices these plates help to dissipate heat.
To be fixed on DIN rail.



Description	Notes	No. modules	Code	
BLANK PLATE FOR DIN MODULES	18x45mm	1 MOD.	654.0410	25/250

When put between the modular devices these plates help to dissipate heat.
To be fixed on DIN rail.



Description	Notes	No. modules	Code	
BLANK PLATE FOR DIN MODULES	73x49mm	4 MOD.	654.0400	25

When put between the modular devices these plates help to dissipate heat.



■ ACCESSORIES FOR MODULAR ENCLOSURES >> BLANK PLATES



Description	Flange	Notes	IP	Colour	Code	
BLANK PLATE FOR PANEL CUT OUTS	70X87MM		IP66		654.0100	25

With gasket.



Description	Flange	Notes	IP	Colour	Code	
FLANGE ADAPTER	84X106MM	84x106 --> 75x75	IP66		654.0108	1/5

With gasket.

■ ACCESSORIES FOR MODULAR ENCLOSURES >> BLANK PLATES - TOP22



Description	Suitable for	Flange	IP	Colour	Code	
FLANGE ADAPTER	1 x TOP22	70X87MM	IP66		654.0101Y	25

With gasket.
For components TOP22 Series (ø22mm).



Description	Suitable for	Flange	IP	Colour	Code	
FLANGE ADAPTER	1 x TOP22	70X87MM	IP66		654.0101	25

With gasket.
For components TOP22 Series (ø22mm).



Description	Suitable for	Flange	IP	Colour	Code	
FLANGE ADAPTER	2 x TOP22	70X87MM	IP66		654.0102	25

With gasket.
For components TOP22 Series (ø22mm).

■ ACCESSORIES FOR MODULAR ENCLOSURES >> BLANK PLATES - OMNIA



Description	IP	Notes	Code	
BLANK COVER	IP66	OMNIA	654.0120	6/72

IP66 when coupled with the relevant component.
Covers for OMNIA Series cutouts.



Description	IP	Notes	Code	
FLANGE ADAPTER	IP66	16A [70x87]	654.0125	1/6/72

IP66 when coupled with the relevant component.
Covers for OMNIA Series cutouts.



Description	IP	Notes	Code	
FLANGE ADAPTER	IP66	32A [84x106]	654.0126	1/6/72

IP66 when coupled with the relevant component.
Covers for OMNIA Series cutouts.



■ ACCESSORIES FOR MODULAR ENCLOSURES >> TRANSFORMERS



Description	Dimensions	Notes	Code	
SAFETY TOROIDAL TRANSFORMER	$\varnothing 170 \times \varnothing 39 \times h 38 \text{mm}$ L=270mm	300VA	654.0220	1
	$\varnothing 170 \times \varnothing 45 \times h 25 \text{mm}$ L=270mm	150VA	654.0210	1

Cables: black 220V-, red 24V-.
Safety Extra Low Voltage (SELV).
F class.

■ ACCESSORIES FOR MODULAR ENCLOSURES >> DOMESTIC KIT



Description	Suitable for	IP	Notes	Code	
FLUSH MOUNTING FRAME	EVOLUTION	IP55	EVOLUTION MODULES	570.5052	10/100

Modules snap into place.



Description	Suitable for	IP	Notes	Code	
FLUSH MOUNTING FRAME	BTICINO	IP55	B-TICINO MODULES	570.5012	10/100

Modules snap into place.

Manufactured with the authorization from Bticino spa company and is suitable to house "Living International", "Luna", "Light" and "Light Tech" modules which are registered trademarks owned by Bticino.



Description	Suitable for	IP	Notes	Code	
COVER WITH INSERT	EVOLUTION	IP55	EVOLUTION MODULES	654.0122	6

Modules snap into place.



Description	Suitable for	IP	Notes	Code	
COVER WITH INSERT	BTICINO	IP55	B-TICINO MODULES	654.0121	6

Modules snap into place.

Manufactured with the authorization from Bticino spa company and is suitable to house "Living International", "Luna", "Light" and "Light Tech" modules which are registered trademarks owned by Bticino.

■ DOMINO TERMINAL BLOCKS >> TERMINAL BLOCKS FOR DIN RAIL



Description	Type	IP	Colour	Code	
TERMINAL BLOCK	HORIZONTAL	IP20		654.0359	10

Terminals: 1x (5x10mm² and 5x16mm²).
Phase R-S-T and earth/neutral terminal blocks.





Description	Type	IP	Colour	Code	
TERMINAL BLOCK	VERTICAL	IP20		654.0358	10

Terminals: 1x (5x10mm² and 5x16mm²).
Phase R-S-T and earth/neutral terminal blocks.



■ DOMINO TERMINAL BLOCKS >> MODULAR TERMINAL BLOCKS - IP20 >> X2



Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 8 DIN DOMINO IP66 12-24 DIN	IP20		654.0361	10

Insulated by a plastic cover for the connection of the flexible cables.
There is special left for one additional terminal block.
For earth, phase and neutral conductors.





Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 8 DIN DOMINO IP66 12-24 DIN	IP20		654.0361C	10

Insulated by a plastic cover for the connection of the flexible cables.
For earth, phase and neutral conductors.
Complete terminal block, supplied with one additional terminal block art. 654.0360.



■ DOMINO TERMINAL BLOCKS >> MODULAR TERMINAL BLOCKS - IP20 >> X3



Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 12-24 DIN DOMINO IP66 16-32-48-64 DIN	IP20		654.0362	10

Insulated by a plastic cover for the connection of the flexible cables.
For earth, phase and neutral conductors.
There is special left for two additional terminal blocks.





Description	Suitable for	IP	Colour	Code	
TERMINAL BLOCK	DOMINO IP40 12-24 DIN DOMINO IP66 16-32-48-64 DIN	IP20		654.0362C	10

Insulated by a plastic cover for the connection of the flexible cables.
For earth, phase and neutral conductors.
Complete terminal block, supplied with two additional terminal blocks art. 654.0360.

■ DOMINO TERMINAL BLOCKS >> MODULAR TERMINAL BLOCKS - IP20 >> ADDITIONAL



Description	Notes	IP	Colour	Code	
TERMINAL BLOCK	EXTRA	IP20		654.0360	10

Insulated by a plastic cover for the connection of the flexible cables.
For earth, phase and neutral conductors.



BLOCK Series

BLOCK is a range of empty enclosures for distribution assemblies made of shockproof and self-extinguishing thermoplastic material, ideal for powering small and medium devices in the industrial, service and construction site sectors.

Available in four sizes, from 4 to 14 DIN, with cutouts for the installation of non-interlocked industrial sockets up to 32A and waterproof domestic socket outlets, or with a blind panel.

Easy to transport thanks to its compact size and convenient hidden tilting handle.

 technical sheet p. 844

Technical information

Main characteristics



01 Blank sides with drilling point marks

02 Window equipped with latch or triangular key

03 Quick-fit captive stainless steel screws

04 Blank front panel or with cut-outs to install:
 - OPTIMA Series industrial sockets up to 32A
 - IP54 DOMO Series / IP66 DOMOPLUS Series domestic sockets

05 Spacious enclosure to facilitate cabling operations

06 Retractable tilting handle, removable for fixed installation

Compatibility



Flush mounting industrial socket outlets



Flush mounting domestic socket outlets

■ EMPTY ENCLOSURES - BLANK PANEL >> BLOCK1 - 4 DIN



Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	110x280x95mm	4 MOD.	8W	632.1510-000	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66

■ EMPTY ENCLOSURES - BLANK PANEL >> BLOCK3



Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	136x440x85mm	0 MOD.	9W	632.3511-000	1/4


Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66



■ EMPTY ENCLOSURES - BLANK PANEL >> BLOCK3 - 6 DIN




Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	136x440x105mm	6 MOD.	9W	632.3510-000	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66

■ EMPTY ENCLOSURES - BLANK PANEL >> BLOCK4 - 11 DIN




Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	212x415x105mm	11 MOD.	14W	632.4510-000	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66

■ EMPTY ENCLOSURES - BLANK PANEL >> BLOCK4 - 11 DIN - YALE KEY




Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	212x415x105mm	11 MOD.	14W	632.4710-000	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66

■ EMPTY ENCLOSURES - BLANK PANEL >> BLOCK5 - 14 DIN



Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	272x414x110mm	14 MOD.	15W	632.5510-000	1/2

Power dissipation calculated in conformity with CEI 23-49 italian standards.

IP: IP66

■ EMPTY ENCLOSURES - WITH CUTOUTS 70X87 >> BLOCK1 - 1 SOCKET - 4 DIN


Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	110x280x95mm	4 MOD.	8W	632.1500-000	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.
 Does not accept COMMAND Series 63A switches and above.
 70x87mm cut-outs.



With cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series in the grey coloured positions

IP: IP66
■ EMPTY ENCLOSURES - WITH CUTOUTS 70X87 >> BLOCK3 - 3 SOCKETS - 6 DIN


Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	136x440x105mm	6 MOD.	9W	632.3500-000	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.
 70x87mm cut-outs.



With cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series in the grey coloured positions.

IP: IP66
■ EMPTY ENCLOSURES - WITH CUTOUTS 70X87 >> BLOCK3 - 4 SOCKETS


Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	136x440x85mm	0 MOD.	9W	632.3501-000	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.
 70x87mm cut-outs.



With cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series in the grey coloured positions.

IP: IP66
■ EMPTY ENCLOSURES - WITH CUTOUTS 70X87 >> BLOCK4 - 4 SOCKETS - 11 DIN


Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	212x415x105mm	11 MOD.	14W	632.4500-000	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.
 70x87mm cut-outs.




With cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series in the grey coloured positions.

IP: IP66

■ EMPTY ENCLOSURES - WITH CUTOUTS 70X87 >> BLOCK4 - 4 SOCKETS - 11 DIN - YALE KEY


IP: IP66

Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	212x415x105mm	11 MOD.	14W	632.4700-000	1/4


Power dissipation calculated in conformity with CEI 23-49 italian standards.
70x87mm cut-outs.



With cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series in the grey coloured positions.

■ EMPTY ENCLOSURES - WITH CUTOUTS 70X87 >> BLOCK5 - 5 SOCKETS - 14 DIN


IP: IP66

Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	272x414x110mm	14 MOD.	15W	632.5500-000	1/2


Power dissipation calculated in conformity with CEI 23-49 italian standards.
70x87mm cut-outs.



With cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series in the grey coloured positions.

■ EMPTY ENCLOSURES - WITH CUTOUTS 70X87 + 50X60 >> BLOCK1 - 3 SOCKETS - 4 DIN


IP: IP66

Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	110x280x95mm	4 MOD.	8W	632.1530-000	1/4


Power dissipation calculated in conformity with CEI 23-49 italian standards.
70x87mm cut-outs.
50x60 mm cut-outs.



With cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series in the grey coloured positions.

■ EMPTY ENCLOSURES - WITH CUTOUTS 70X87 + 50X60 >> BLOCK3 - 4 SOCKETS - 6 DIN


IP: IP66

Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	136x440x105mm	6 MOD.	9W	632.3520-000	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.
70x87mm cut-outs.
50x60 mm cut-outs.



With cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series in the grey coloured positions.

■ EMPTY ENCLOSURES - WITH CUTOUTS 70X87 + 50X60 >> BLOCK3 - 6 SOCKETS - 6 DIN

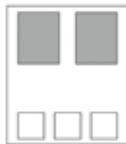

Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	136x440x105mm	6 MOD.	9W	632.3530-000	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.
50x60 mm cut-outs.

IP: IP66
■ EMPTY ENCLOSURES - WITH CUTOUTS 70X87 + 50X60 >> BLOCK4 - 5 SOCKETS - 11 DIN


Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	212x415x105mm	11 MOD.	14W	632.4520-000	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.
70x87mm cut-outs.
50x60 mm cut-outs.



With cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series in the grey coloured positions.

IP: IP66
■ EMPTY ENCLOSURES - WITH CUTOUTS 70X87 + 50X60 >> BLOCK4 - 6 SOCKETS - 11 DIN


Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	212x415x105mm	11 MOD.	14W	632.4530-000	1/4

Power dissipation calculated in conformity with CEI 23-49 italian standards.
70x87mm cut-outs.
50x60 mm cut-outs.



With cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series in the grey coloured positions. Red coloured knockouts don't accept P40 domestic socket outlet code 570.2051.

IP: IP66
■ EMPTY ENCLOSURES - WITH CUTOUTS 70X87 + 50X60 >> BLOCK5 - 7 SOCKETS - 14 DIN


Installation	Dimensions	No. modules	Power	Code	
SURFACE MOUNTING	272x414x110mm	14 MOD.	15W	632.5520-000	1/2

Power dissipation calculated in conformity with CEI 23-49 italian standards.
70x87mm cut-outs.
50x60 mm cut-outs.



With cut-outs to contain 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm) and DOMOPLUS Series in the grey coloured positions.

IP: IP66

■ ACCESSORIES >> BLANK PLATES



Description	Flange	IP	Colour	Code	
BLANK PLATE FOR PANEL CUT OUTS	70X87MM	IP66		654.0100	25

With gasket.



Description	Flange	IP	Colour	Code	
BLANK PLATE FOR PANEL CUT OUTS	50X60MM	IP66		654.0105	25

With gasket.

■ ACCESSORIES >> BLANK PLATES - TOP22



Description	Suitable for	Flange	IP	Colour	Code	
FLANGE ADAPTER	1 x TOP22	70X87MM	IP66		654.0101Y	25

With gasket.
For components TOP22 Series (ø22mm).



Description	Suitable for	Flange	IP	Colour	Code	
FLANGE ADAPTER	1 x TOP22	70X87MM	IP66		654.0101	25

With gasket.
For components TOP22 Series (ø22mm).



Description	Suitable for	Flange	IP	Colour	Code	
FLANGE ADAPTER	2 x TOP22	70X87MM	IP66		654.0102	25

With gasket.
For components TOP22 Series (ø22mm).

ACCESSORIES >> BLANK PLATE FOR DIN MODULES


Description	Notes	No. modules	Colour	Code	
BLANK PLATE FOR DIN MODULES	9x45mm	1/2 MOD.		654.0420	25/400

When put between the modular devices these plates help to dissipate heat.
To be fixed on DIN rail.



Description	Notes	No. modules	Colour	Code	
BLANK PLATE FOR DIN MODULES	18x45mm	1 MOD.		654.0410	25/250

When put between the modular devices these plates help to dissipate heat.
To be fixed on DIN rail.



Description	Notes	No. modules	Colour	Code	
BLANK PLATE FOR DIN MODULES	73x49mm	4 MOD.		654.0400	25

When put between the modular devices these plates help to dissipate heat.

ACCESSORIES >> TERMINAL BLOCKS WITHOUT INSULATED BASE - IP00


Description	Suitable for	IP	Code	
TERMINAL BLOCK	DOMINO IP40 MBOX2 MBOX3 BLOCK4	IP00	654.0349	10/100

Terminals: 1x (5x10mm² and 5x16mm²).
Earth/neutral terminal blocks.

ACCESSORIES >> TRANSFORMERS


Description	Dimensions	Notes	Code	
SAFETY TOROIDAL TRANSFORMER	ø170xø39xh38mm L=270mm	300VA	654.0207	1
	ø170xø45xh25mm L=270mm	150VA	654.0205	1

Cables: black 220V~, red 24V~.
Safety Extra Low Voltage (SELV).
F class.

ACCESSORIES >> SUPPORT KIT


Description	Suitable for	Code	
SUPPORT	BLOCK4	654.0600	2




ENERBOX Series

ENERBOX is a range of empty enclosures for distribution assemblies made of shockproof and self-extinguishing thermoplastic material, ideal for the supply of small and medium-sized equipments in the industrial and tertiary sector

Available in two sizes, 6 or 11 DIN, with blind panel or with cutouts for the installation of industrial sockets up to 63A and waterproof domestic standard socket outlets.

On the sides of the enclosures can be installed up to a maximum of 4 additional compact domestic standard socket outlets.

 technical sheet p. 850

Technical information

Main characteristics



For the installation of DOMO Series sockets ensuring double insulation:



- 01** Upper wall with knockouts
- 02** Blank panel or with cut-outs to install:
 - OPTIMA Series industrial sockets up to 63A
 - IP54 DOMO Series / IP66 DOMOPLUS Series domestic sockets
- 03** Blank bottom side
- 04** Side cut-outs or knockouts for the installation of up to 4 DOMO Series domestic standard IP54 sockets (50x60 flange).
- 05** Window closure with galvanised steel screw
- 06** Rapid lead captive stainless steel screws

Compatibility



Flush mounting industrial socket outlets



Flush mounting domestic socket outlets

■ EMPTY ENCLOSURES - BLANK PANEL >> ENCLOSURES 6 DIN



Installation	Dimensions	Type	Notes	No. modules	Power	Code	
SURFACE MOUNTING	285x145x107mm	PLAIN	4 DOMO	6 MOD.	9W	633.1010	1/12

Power dissipation calculated in conformity with CEI 23-49 italian standards.
Side knockouts (DOMO 50x60mm): 4 closed.

IP: IP55

■ EMPTY ENCLOSURES - BLANK PANEL >> ENCLOSURES 11 DIN



Installation	Dimensions	Type	Notes	No. modules	Power	Code	
SURFACE MOUNTING	285x235x107mm	PLAIN	4 DOMO	11 MOD.	15W	633.2020	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.
Side knockouts (DOMO 50x60mm): 4 closed.

IP: IP55

■ EMPTY ENCLOSURES - 70X87 >> ENCLOSURES 6 DIN



Installation	Dimensions	Notes	No. modules	Power	Code	
SURFACE MOUNTING	285x145x107mm	4 DOMO + 1x16-32A	6 MOD.	9W	633.1013	1/12
	285x145x107mm	4 DOMO + 1x63A	6 MOD.	9W	633.1014	1/12

Power dissipation calculated in conformity with CEI 23-49 italian standards.
Side knockouts (DOMO 50x60mm): 4 closed.

IP: IP55

■ EMPTY ENCLOSURES - 70X87 >> ENCLOSURES 11 DIN



Installation	Dimensions	Notes	No. modules	Power	Code	
SURFACE MOUNTING	285x235x107mm	4 DOMO + 1x16-32A + 1x63A	11 MOD.	15W	633.2026	1/6
	285x235x107mm	4 DOMO + 2x16-32A	11 MOD.	15W	633.2024	1/6
	285x235x107mm	4 DOMO + 2x63A	11 MOD.	15W	633.2025	1/6
	285x235x107mm	6 DOMO + 1x16-32A + 1x32A	11 MOD.	15W	633.2045	1/6
	285x235x107mm	6 DOMO + 2x16-32A	11 MOD.	15W	633.2044	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.
Side knockouts (DOMO 50x60mm): 4 closed.

IP: IP55

■ EMPTY ENCLOSURES - 70X87 + 50X60 >> ENCLOSURES 6 DIN



Installation	Dimensions	Notes	No. modules	Power	Code	
SURFACE MOUNTING	285x145x107mm	4 DOMO + 1x16-32A	6 MOD.	9W	633.1011	1/12
	285x145x107mm	4 DOMO + 1x63A	6 MOD.	9W	633.1012	1/12

Power dissipation calculated in conformity with CEI 23-49 italian standards.
Side knockouts (DOMO 50x60mm): 2 open - 2 closed.

IP: IP55

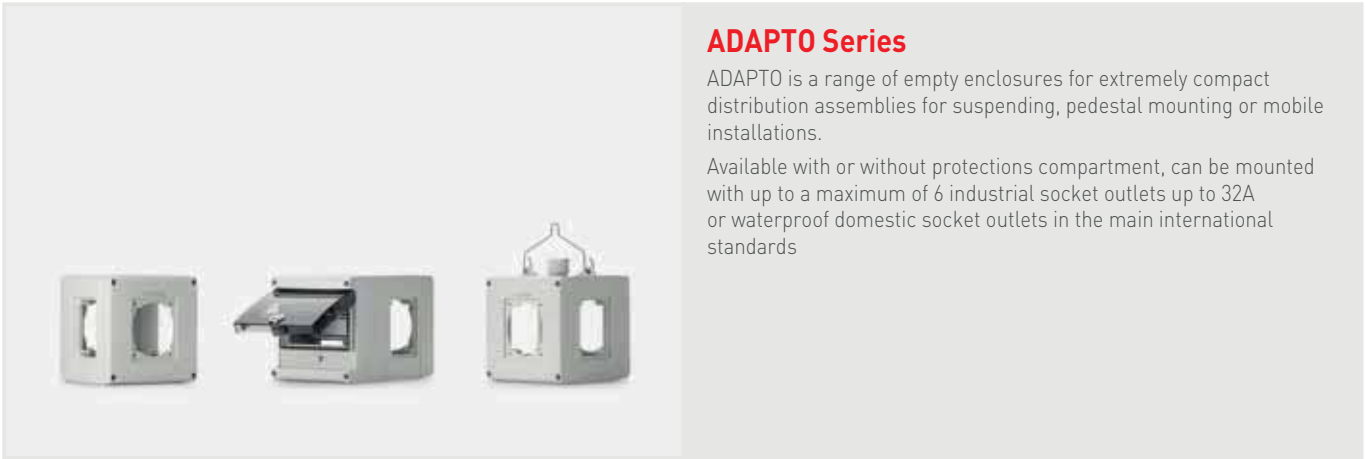
■ EMPTY ENCLOSURES - 70X87 + 50X60 >> ENCLOSURES 11 DIN



Installation	Dimensions	Notes	No. modules	Power	Code	
SURFACE MOUNTING	285x235x107mm	4 DOMO + 1x16-32A + 1x63A	11 MOD.	15W	633.2023	1/6
	285x235x107mm	4 DOMO + 2x16-32A	11 MOD.	15W	633.2021	1/6
	285x235x107mm	4 DOMO + 2x63A	11 MOD.	15W	633.2022	1/6

Power dissipation calculated in conformity with CEI 23-49 italian standards.
Side knockouts (DOMO 50x60mm): 2 open - 2 closed.

IP: IP55



ADAPTO Series

ADAPTO is a range of empty enclosures for extremely compact distribution assemblies for suspending, pedestal mounting or mobile installations.

Available with or without protections compartment, can be mounted with up to a maximum of 6 industrial socket outlets up to 32A or waterproof domestic socket outlets in the main international standards

■ EMPTY ENCLOSURES >> PORTABLE OR SUSPENDED



Installation	Dimensions	Notes	Code	
SUSPENDED	100x170x181mm	3x(75x75mm)+2x(50x60mm)	603.3005-000	1/10

Zinc-plated steel carrying handle.
 Equipped with PG21 cable gland, cable clamp and terminal block.



Installation	Dimensions	Notes	Code	
PORTABLE	160x120x80mm	1x(70x87mm) - 2x(50x60mm)	623.1000-000	1/10

IP54 when assembled together with the relevant component.



Installation	Dimensions	Notes	Code	
PORTABLE	200x150x80mm	1x(84x106mm) - 2x(50x60mm)	623.2000-000	1/10

IP54 when assembled together with the relevant component.



Installation	Dimensions	Notes	Code	
SUSPENDED	136x162x224mm	4x(70x87mm/84x106mm)	623.4500-000	1/4

Zinc-plated steel carrying handle.
 Equipped with PG21 cable gland, cable clamp and terminal block.
 IP66 when coupled with the relevant component.




Installation	Dimensions	Notes	Code	
SUSPENDED	136x227x224mm	3x(70x87mm/84x106mm) - 6 DIN	623.3500-000	1/4

Zinc-plated steel carrying handle.
 Equipped with PG21 cable gland, cable clamp and terminal block.
 IP66 when coupled with the relevant component.


■ EMPTY ENCLOSURES >> ELEVATED INSTALLATION



Installation	Dimensions	Notes	Code	
SURFACE MOUNTING	160x120x80mm	1x(70x87mm) - 2x(50x60mm)	625.1000-000	1/10


IP54 when assembled together with the relevant component.



Installation	Dimensions	Notes	Code	
SURFACE MOUNTING	200x150x80mm	1x(84x106mm) - 2x(50x60mm)	625.2000-000	1/10


IP54 when assembled together with the relevant component.



Installation	Dimensions	Notes	Code	
ON TURRET	136x162x150mm	4x(70x87mm/84x106mm)	625.4500-000	1/4

Equipped with PG21 cable gland, cable clamp and terminal block.
IP66 when coupled with the relevant component.
Tubular stand to be ordered separately.




Installation	Dimensions	Notes	Code	
ON TURRET	136x227x150mm	3x(70x87mm/84x106mm) - 6 DIN	625.3500-000	1/4

Equipped with PG21 cable gland, cable clamp and terminal block.
IP66 when coupled with the relevant component.
Tubular stand to be ordered separately.

■ ACCESSORIES >> ADAPTORS COUPLING KIT



Code	
692.4342	5

3-way and 4-way adaptors can be coupled together as shown in the drawing.
The kit includes all the screws, nuts, washers and seals required to couple together 3-way and 4-way adaptors.

■ ACCESSORIES >> TUBULAR STAND



Code	
692.4340	1

■ ACCESSORIES >> MOUNTING BRACKET FOR COMPRESSED AIR



				Code	
				654.0050	1/10

■ ACCESSORIES >> BLANK PLATES



Flange	IP	Colour	Code	
70X87MM	IP66		654.0100	25

With gasket.

■ ACCESSORIES >> BLANK PLATES - TOP22



Suitable for	Flange	IP	Colour	Code	
1 x TOP22	70X87MM	IP66		654.0101Y	25

With gasket.
For components TOP22 Series (ø22mm).



Suitable for	Flange	IP	Colour	Code	
1 x TOP22	70X87MM	IP66		654.0101	25

With gasket.
For components TOP22 Series (ø22mm).



Suitable for	Flange	IP	Colour	Code	
2 x TOP22	70X87MM	IP66		654.0102	25

For components TOP22 Series (ø22mm).

1.6 EMPTY ENCLOSURES
Distribution pedestal terminals



DISTRIBUTION PEDESTAL TERMINALS

KIOSK SERIES

p. 474

Empty enclosures for pedestal distribution of energy in public areas






KIOSK Series

KIOSK is a series of empty enclosures in shockproof and self-extinguishing technopolymer with high resistance to atmospheric and chemical agents.

Available in different sizes and configurations that can be equipped with industrial or domestic socket outlets and, on request, with water dispensers.

The red color versions, suitable for fire protection equipments, complete the range.

The metal versions are instead suitable to host BLOCK or DOMINO distribution assemblies for pedestal installation.

 technical sheet p. 853

■ EMPTY ENCLOSURES - METAL >> TYPE BLOCK4




Description	Dimensions	Type	Code	
EMPTY PILLAR BLOCK4	400x1250x220mm	SINGLE-FACE	659.BA5040-00	1

Pillar only, enclosures to be purchased separately.

■ EMPTY ENCLOSURES - METAL >> TYPE DOMINO




Description	IP	Dimensions	Type	Code	
EMPTY PILLAR	IP66	487x1235x375mm	SINGLE-FACE	659.DA5041-00	1
DOMINO METAL	IP66	487x1235x375mm	DOUBLE-FACE	659.DA5081-00	1
EMPTY PILLAR	IP66	487x1235x375mm	SINGLE-FACE	659.DB5041-00	1
DOMINO S.STEEL	IP66	487x1235x375mm	DOUBLE-FACE	659.DB5081-00	1

Pillar only, enclosures to be purchased separately.

■ EMPTY ENCLOSURES - PLAST >> TYPE SMART-C



Description	IP	Dimensions	Code	
EMPTY PILLAR SMART-C BASE	IP56	580x1400x450mm	659.SCBASE	1
EMPTY PILLAR SMART-C	IP56	580x1400x450mm	659.SC5041-00 ^{1) 2)}	1

¹⁾ Complete with lights kit.

²⁾ Structure not pre-drilled for the sockets.

EMPTY ENCLOSURES - PLAST >> TYPE SMART-K


Description	IP	Dimensions	Code	
EMPTY PILLAR SMART-K	IP56	340x810x260mm	659.SK5041-00 ^{1) 2)}	1
EMPTY PILLAR SMART-K BASE	IP56	340x810x260mm	659.SKBASE	1

¹⁾ Complete with lights kit.
²⁾ Structure not pre-drilled for the sockets.

EMPTY ENCLOSURES - PLAST >> TYPE SMART-X


Description	IP	Dimensions	Code	
EMPTY PILLAR SMART-X NO LIGHT	IP56	368x980x318mm	659.SX5040-00	1

Structure not pre-drilled for the sockets.
 Without lights kit.

EMPTY ENCLOSURES - FIRE >> TYPE SMART-C


Description	IP	Dimensions	Type	Code	
EMPTY PILLAR SMART-C FIRE	IP56	580x1400x450mm	FIRE EXTINGUISHER	659.SCFIRE-E ²⁾	1
	IP56	580x1400x450mm	FIRE HOSE	659.SCFIRE-M ¹⁾	1

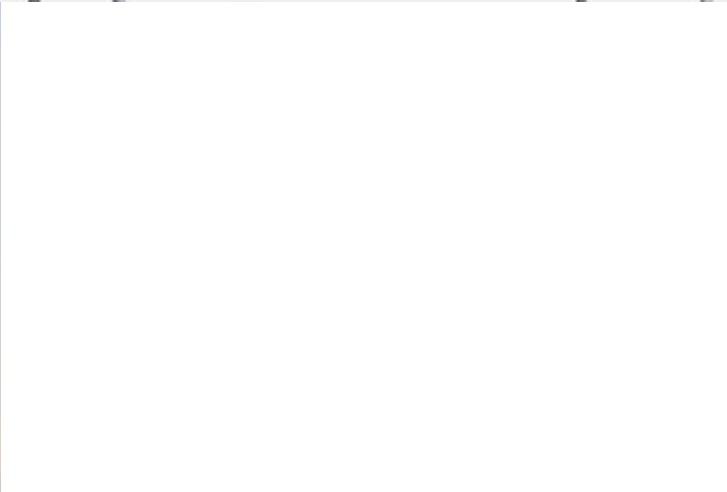
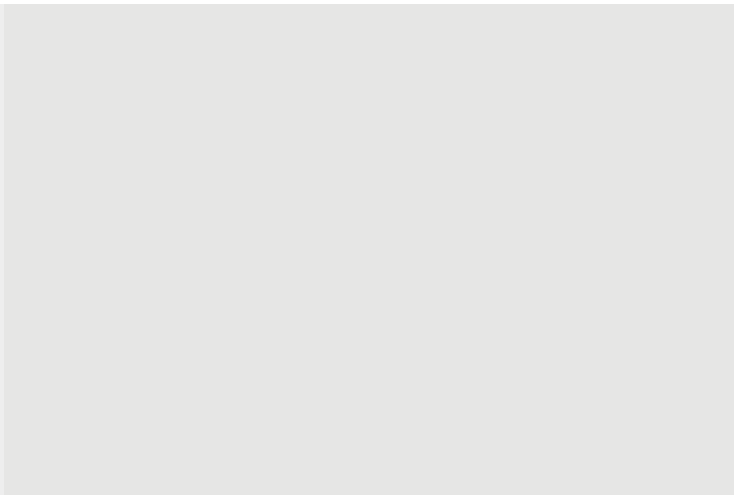
¹⁾ Fire hose included.
²⁾ Fire extinguisher not included.

EMPTY ENCLOSURES - FIRE >> TYPE SMART-K

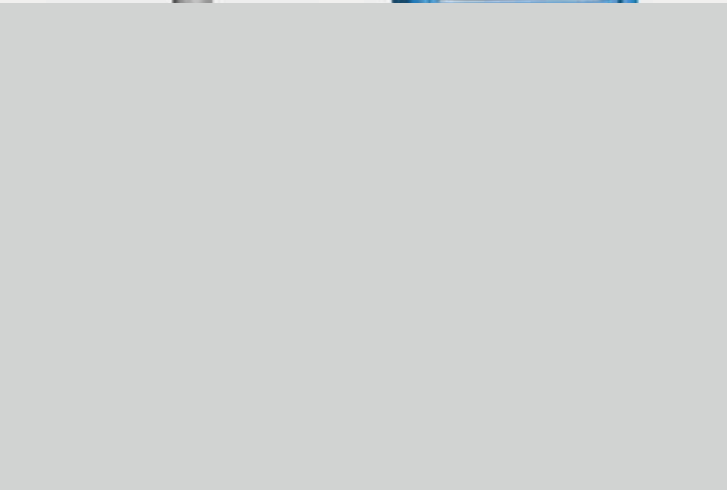

Description	IP	Dimensions	Type	Code	
EMPTY PILLAR SMART-K FIRE	IP56	340x810x260mm	FIRE EXTINGUISHER	659.SKFIRE-E ²⁾	1
	IP56	340x810x260mm	FIRE HOSE	659.SKFIRE-M ¹⁾	1

¹⁾ Fire hose included.
²⁾ Fire extinguisher not included.





DISTRIBUTION ASSEMBLIES



1.7 DISTRIBUTION ASSEMBLIES
Pre-assembled distribution assemblies



PRE-ASSEMBLED DISTRIBUTION ASSEMBLIES

MBOX SERIES

p. 482

Distribution assemblies for construction site



Applications: Construction site

MEGA SERIES

p. 503

Distribution assemblies on metallic structure



Applications: Shipyard | Major works yard | Commercial port
Container terminal

IMPACT SERIES

p. 504

Shockproof distribution assemblies



Applications: Construction site | Public entertainment

DOMINO SERIES

p. 508

Modular distribution assemblies



BLOCK SERIES

p. 514

Compact distribution assemblies



MOBIL SERIES

p. 520

Distribution assemblies on metal stand



Applications: Construction site

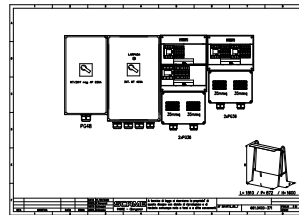
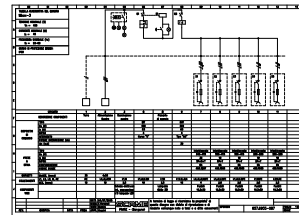
CUSTOMIZED SOLUTIONS

Scame offers a wide selection of preconfigured distribution boards, obtained from the installation of the various series of industrial and domestic flush-mounted socket outlets on the homologous versions of empty enclosures, however also in the catalog.

To this already rich selection is added the possibility of having your own distribution board or combination unit in a dedicated configuration according to specific needs.

Thanks to a rapid analysis and estimation service and a flexible production system, Scame is in fact able to quickly design, implement and supply customized and state-of-the-art solutions, accompanied by the relevant certificate of conformity.

For any customization request, please contact the Technical Information Center by sending an email to export@scame.com.



Dichiarazione di conformità del costruttore <small>Manufacturer's declaration of conformity</small>	
L'Azienda	Scame Piere S.p.A.
Indirizzo	Via Carlo Farini, 12
	36020 Piate (BG)
	Italia
dichiara sotto la propria responsabilità che dichiara under its own responsibility that:	
Il prodotto	QUADRO DI DISTRIBUZIONE ASC Serie MBOX3
Codice	657.6935-087
Numero di serie	99999999
prodotto il 12.05.2021 con le seguenti caratteristiche tecniche: Prodotto il 12.05.2021 with the following technical characteristics:	
Grado di protezione IP	IP65
Corrente nominale	40A
Tensione nominale	400V
Frequenza di impiego	50Hz - 60Hz
Polifasezza Leds	Classe I (EN 60325-1:1994+A1+A2)
È stato progettato e costruito in conformità alla Norma: Has been designed and constructed in conformity with the standard:	
EN 61439-4 (2013-03)	
Piate, 12.05.2021	
SCAME PIERE S.p.A. Direttore Tecnico Ing. Gianpaolo Ciampi	

MBOX Series



MEGA Series



IMPACT Series



KIOSK Series

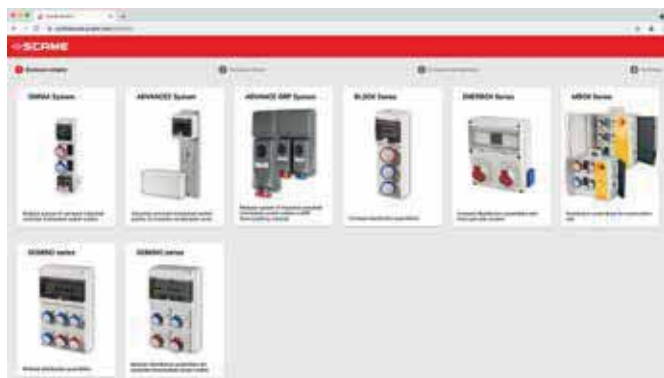


COMBIWIZARD

COMBIWIZARD is Scame's online configurator which, in a simple and intuitive way, allows you to compose your own battery of interlocked sockets or distribution board. Starting from the series of empty enclosures or modular bases, in a few simple guided steps, it is possible to select the compatible

sockets and devices to obtain the desired configuration valued at the list prices of the individual components. At the end of the process, by manually adding the switchg

01 Choose the series



04 Obtain the configuration valued at the current list prices and complete it with the other information



02 Choose your enclosure configuration



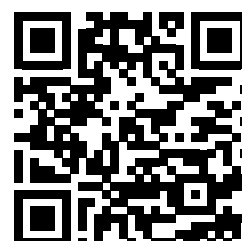
05 Print your selection to get the offer ready to be sent to your customer



03 Select the flange to get the compatible sockets



Click here to access COMBIWIZARD:





MBOX Series

MBOX is a range of distribution assemblies for construction site made of shock-resistant thermoplastic material.

The series includes three different versions: MBOX2, MBOX3 and MBOX5 with a maximum power of 90kW (160A) and IP66 protection rating, equipable with industrial socket outlets, with watertight domestic socket outlets, or with interlocked socket outlets up to 63A.

The extreme compactness of the enclosures and the retractable handle make the panels easily transportable. The lighting by means of a twilight sensor protects the safety of the operator even in conditions of poor visibility. Each panel is supplied with declaration of conformity and wiring scheme.

For any customization requirement is active a precise analysis and estimation service.

technical sheet p. 856

Technical information

Principali caratteristiche MBOX2



- 01** Compartment for sockets and protections that can be lit by means of a twilight sensor (optional in MBOX2)
- 02** Equipable with:
 - 4 x 16A-32A industrial interlocked sockets OMNIA Series / domestic interlocked sockets OMNIAPLUS Series
 - or
 - 6 x 16A-32A industrial socket OPTIMA Series / IP66 domestic sockets DOMOPLUS Series
- 03** Enclosure in shockproof and self-extinguishing material, resistant to atmospheric and chemical agents.
- 04** Possibility of emergency button
- 05** 16 DIN (8x2) consumer unit with housing for fuse test device
- 06** Protections compartment window closing by means of two latches and triangular central key (Yale on request)
- 07** Integrated tilting handle to facilitate handling of the panel
- 08** Power supply by terminal block or by cable with plug

Applications examples



Building construction site



Building construction site

Main characteristics MBOX3



- 01** Compartment for sockets and protections that can be lit by means of a twilight sensor
- 02** Equipable with:
 - 6 x 16A-32A industrial interlocked sockets OMNIA Series (4+1 of 63A in the version without door) / domestic interlocked sockets OMNIPLUS Series or
 - 9 x 16A-32A industrial sockets OPTIMA Series / IP66 domestic sockets DOMOPLUS Series
- 03** Enclosure in shockproof and self-extinguishing material, resistant to atmospheric and chemical agents. Versions available with or without door of the socket compartment
- 04** Possibility of emergency button or disconnecter as functional or emergency command
- 05** 39 DIN (13x3) consumer unit with housing for fuse test device
- 06** Protections compartment window closing by means of two latches and triangular central key (yale on request)
- 07** Integrated tilting handle to facilitate handling of the panel
- 08** Power supply by terminal block or inlet

1.7 DISTRIBUTION ASSEMBLIES

Pre-assembled distribution assemblies

Main characteristics MBOX5



01 Compartment for sockets and protections that can be lit by means of a twilight sensor

02 Equipable with:
- 12 x 16A-32A industrial interlocked sockets OMNIA Series / domestic interlocked sockets OMNIAPLUS Series
or
- 4 x 16A-32A industrial interlocked sockets OMNIA Series / domestic interlocked sockets OMNIAPLUS Series + 4 x 16A-32A-63A industrial interlocked sockets ADVANCE2 Series

03 Enclosure in shockproof and self-extinguishing material, resistant to atmospheric and chemical agents

04 Possibility of emergency button or disconnector as functional or emergency command

05 52 DIN (13x4) consumer unit with housing for fuse test device

06 Protections compartment window closing by means of two latches and triangular central key (yale on request).

07 Integrated tilting handles to facilitate handling of the panel

08 Power supply by terminal block or inlet

Applications examples



Building construction site



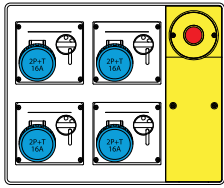
Building construction site








TWILIGHT ILLUMINATION

The insertion of a LED connected to a photosensor, standard on the MBOX3 and MBOX5 models, on request for MBOX2, guarantees, as the external light intensity falls, the lighting of the compartments containing the sockets and the protection and control devices.

This allows the product to be identified and used in poor lighting conditions: ideal for construction sites, MBOX is also perfect for campsites and parking areas.

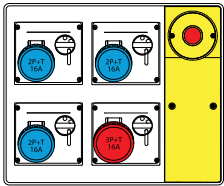









■ MBOX2 >> INTERLOCKED SOCKET OUTLETS WITHOUT FUSES


16A Sockets	32A Sockets	63A Sockets
  	 	 
2P+E 4		

1) Sockets protection	
MCB	4x 1P 16A

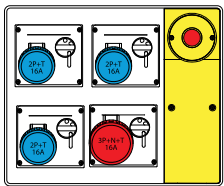
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 1P+E 16A	Terminal block	3kW	656.7924-054	656.7024-054
RCCB 2P 25A 30mA	2m cable and 2P+E 32A plug	3kW	656.7824-054	656.7124-054
MCB 1P+E 32A	Terminal block	6kW	656.7924-113 ¹⁾	656.7024-113 ¹⁾
RCCB 2P 40A 30mA	2m cable and 2P+E 32A plug	6kW	656.7824-113 ¹⁾	656.7124-113 ¹⁾










16A Sockets	32A Sockets	63A Sockets
  	 	 
2P+E 3	3P+E 1	

Sockets protection	
MCB	3x 1P 16A 1x 3P 16A

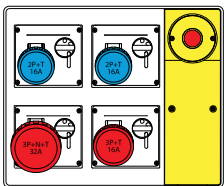
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.7924-109	656.7024-109
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.7824-109	656.7124-109










16A Sockets	32A Sockets	63A Sockets
  	 	 
2P+E 3	3P+N+E 1	

Sockets protection	
MCB	3x 1P 16A 1x 3P 16A

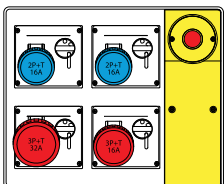
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	2m cable and 3P+N+E 32A plug	18kW	656.7824-457	
RCCB 4P 40A 30mA				










16A Sockets	32A Sockets	63A Sockets
  	 	 
2P+E 2	3P+E 1	3P+N+E 1

Sockets protection	
MCB	2x 1P 16A 1x 3P 16A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.7924-253	656.7024-253
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.7824-253	656.7124-253



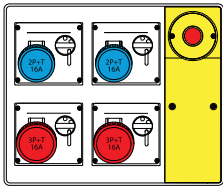
16A Sockets	32A Sockets	63A Sockets
  	 	 
2P+E 2	3P+E 1	3P+N+E 1

Sockets protection	
MCB	2x 1P 16A 1x 3P 16A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.7924-006	656.7024-006
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.7824-006	656.7124-006



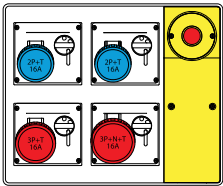
ASC distribution assemblies



16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+E				
2	2				

Sockets protection		
MCB	2x	2x
	1P 16A	3P 16A

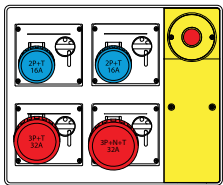
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.7924-008	656.7024-008
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.7824-008	656.7124-008



16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+E	3P+N+E			
2	1	1			

Sockets protection		
MCB	2x	2x
	1P 16A	3P 16A

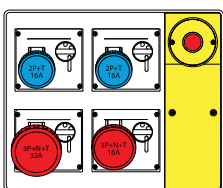
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.7924-056	656.7024-056
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW		656.7124-056



16A Sockets		32A Sockets		63A Sockets	
2P+E		3P+E	3P+N+E		
2		1	1		

Sockets protection		
MCB	2x	
	1P 16A	

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.7924-611	656.7024-611
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.7824-611	656.7124-611



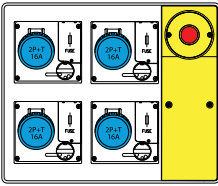
16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+N+E	3P+N+E			
2	1	1			

Sockets protection		
MCB	2x	1x
	1P 16A	3P 16A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.7924-273	656.7024-273
RCCB 4P 40A 30mA	Terminal block	18kW	656.7824-273	

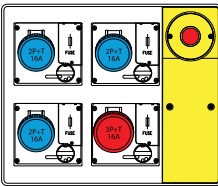


ASC distribution assemblies

■ MBOX2 >> INTERLOCKED SOCKET OUTLETS WITH FUSES


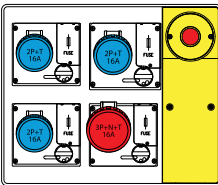
16A Sockets	32A Sockets	63A Sockets
2P+E		
4		

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 1P+E 32A	Terminal block	6kW	656.5924-113	656.5024-113
RCCB 2P 40A 30mA	2m cable and 2P+E 32A plug	6kW	656.5824-113	656.5124-113



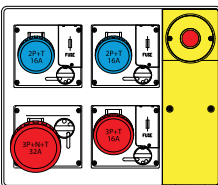
16A Sockets	32A Sockets	63A Sockets
2P+E	3P+E	
3	1	

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.5924-109	656.5024-109
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.5824-109	656.5124-109



16A Sockets	32A Sockets	63A Sockets
2P+E	3P+N+E	
3	1	

Protections	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	2m cable and 3P+N+E 32A plug	18kW	656.5824-457	656.5124-457
RCCB 4P 40A 30mA				

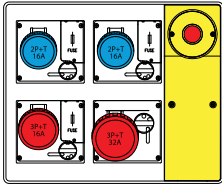


16A Sockets	32A Sockets	63A Sockets
2P+E	3P+E	3P+N+E
2	1	1

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.5924-253	656.5024-253
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.5824-253	656.5124-253

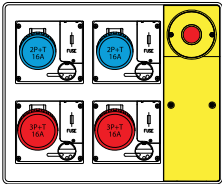


ASC distribution assemblies



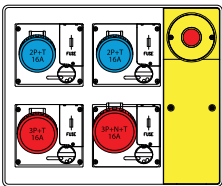
16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+E	3P+E			
2	1	1			

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.5924-006	656.5024-006
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.5824-006	656.5124-006



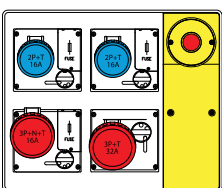
16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+E				
2	2				

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.5924-008	656.5024-008
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.5824-008	656.5124-008



16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+E	3P+N+E	3P+E		
2	1	1			

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.5924-056	656.5024-056
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW		656.5124-056



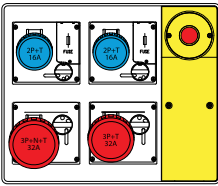
16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+N+E	3P+E	3P+E		
2	1	1			

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.5924-610	656.5024-610
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.5824-610	656.5124-610



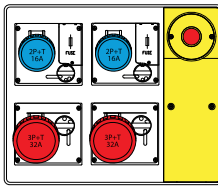
ASC distribution assemblies

■ MBOX2 >> INTERLOCKED SOCKET OUTLETS WITH FUSES



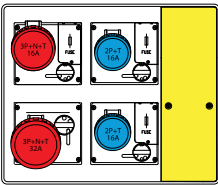
16A Sockets	32A Sockets	63A Sockets
2P+E 2	3P+E 1	3P+N+E 1

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.5924-611	656.5024-611
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.5824-611	656.5124-611



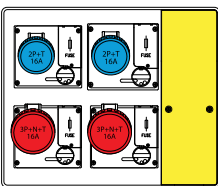
16A Sockets	32A Sockets	63A Sockets
2P+E 2	3P+E 2	

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.5924-612	656.5024-612
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.5824-612	656.5124-612



16A Sockets	32A Sockets	63A Sockets
2P+E 2	3P+N+E 1	3P+N+E 1

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW		656.5024-273
RCCB 4P 40A 30mA				



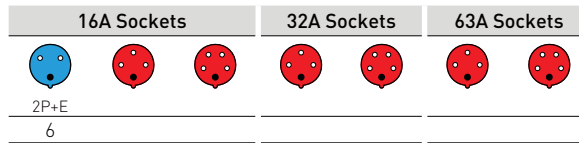
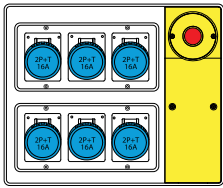
16A Sockets	32A Sockets	63A Sockets
2P+E 2	3P+N+E 2	

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A				
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW		656.5124-297



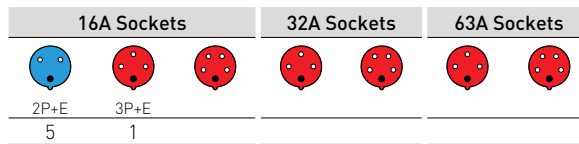
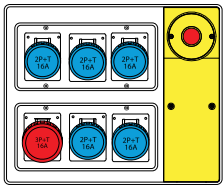
ASC distribution assemblies

■ MBOX2 >> INDUSTRIAL SOCKET



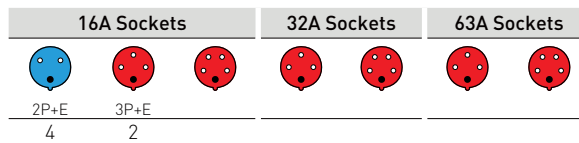
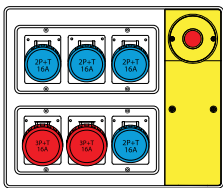
Sockets protection	
MCB	6x 1P 16A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 1P+E 16A	Terminal block	3kW	656.7926-636	656.7026-636
RCCB 2P 25A 30mA	2m cable and 2P+E 16A plug	3kW	656.7826-636	656.7126-636
MCB 4P 32A	Terminal block	18kW	656.7926-639	656.7026-639
RCCB 4P 40A 30mA	2m cable and 2P+E 16A plug	18kW	656.7826-639	656.7126-639



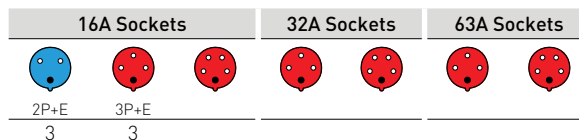
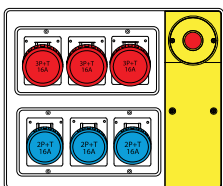
Sockets protection	
MCB	3x 1P 16A 1x 3P 16A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	656.7926-642	656.7026-642
RCCB 4P 40A 30mA	2m cable and 3P+N+E 32A plug	18kW	656.7826-642	656.7126-642



Sockets protection	
MCB	3x 1P 16A 1x 3P 16A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 16A	Terminal block	9kW	656.7926-637	656.7026-637
RCCB 4P 25A 30mA	2m cable and 3P+N+E 16A plug	9kW	656.7826-637	656.7126-637
MCB 4P 32A	Terminal block	18kW	656.7926-640	656.7026-640
RCCB 4P 40A 30mA	2m cable and 3P+N+E 16A plug	18kW	656.7826-640	656.7126-640



Sockets protection	
MCB	3x 1P 16A 1x 3P 16A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 16A	Terminal block	9kW	656.7926-638	656.7026-638
RCCB 4P 25A 30mA	2m cable and 3P+N+E 16A plug	9kW	656.7826-638	656.7126-638
MCB 4P 32A	Terminal block	18kW	656.7926-641	656.7026-641
RCCB 4P 40A 30mA	2m cable and 3P+N+E 16A plug	18kW	656.7826-641	656.7126-641

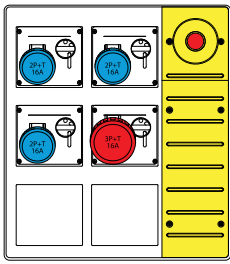


ASC distribution assemblies



PRE-ASSEMBLED DISTRIBUTION ASSEMBLIES
MBOX SERIES

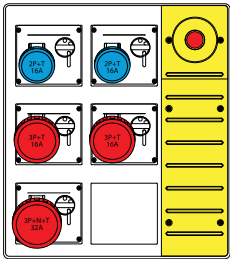
■ MBOX3 >> INTERLOCKED SOCKET OUTLETS WITHOUT FUSES



16A Sockets	32A Sockets	63A Sockets
2P+E 3	3P+E 1	

Sockets protection		
MCB	3x 1P 16A	1x 3P 16A

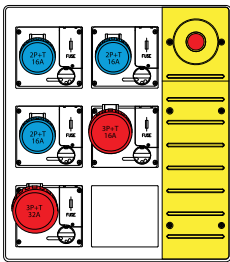
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	657.8934-109	657.8034-109
RCCB 4P 40A 30mA	Appliance inlet 3P+N+E 32A	18kW	657.8834-109	657.8134-109



16A Sockets	32A Sockets	63A Sockets
2P+E 2	3P+E 2	3P+N+E 1

Sockets protection		
MCB	2x 1P 16A	1x 3P 16A

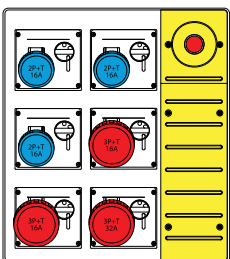
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.8935-087	657.8035-087
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.8835-087	657.8135-087



16A Sockets	32A Sockets	63A Sockets
2P+E 3	3P+E 1	3P+N+E 1

Sockets protection		
MCB	1x 3P 16A	1x 3P 32A

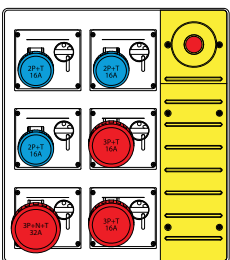
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.8935-013	
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 32A	35kW	657.8835-013	



16A Sockets	32A Sockets	63A Sockets
2P+E 3	3P+E 2	3P+N+E 1

Sockets protection		
MCB	3x 1P 16A	2x 3P 16A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.8936-022	657.8036-022
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.8836-022	657.8136-022



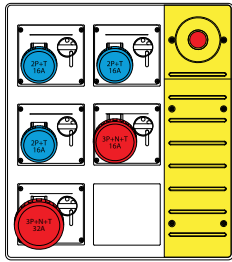
16A Sockets	32A Sockets	63A Sockets
2P+E 3	3P+E 2	3P+N+E 1

Sockets protection		
MCB		1x 3P 16A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	657.8936-069	657.8036-069
RCCB 4P 40A 30mA	Appliance inlet 3P+N+E 32A	18kW	657.8836-069	657.8136-069



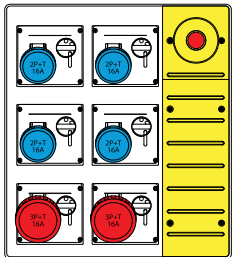
ASC distribution assemblies



16A Sockets	32A Sockets	63A Sockets
2P+E 3	3P+N+E 1	3P+N+E 1

Sockets protection		
MCB	3x 1P 16A	1x 3P 16A
		1x 3P 32A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.8935-883	
RCCB 4P 63A 30mA				

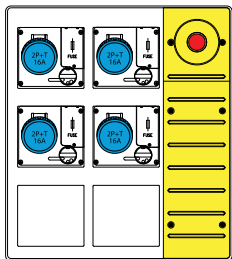


16A Sockets	32A Sockets	63A Sockets
2P+E 4	3P+E 2	

Sockets protection		
MCB	2x 1P 16A	1x 3P 16A

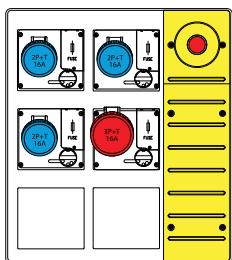
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	657.8936-067	657.8036-067
RCCB 4P 40A 30mA	Appliance inlet 3P+N+E 32A	18kW	657.8836-067	657.8136-067

■ MBOX3 >> INTERLOCKED SOCKET OUTLETS WITH FUSES



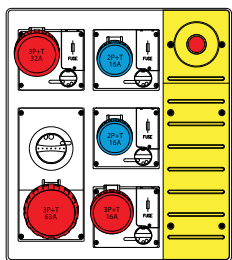
16A Sockets	32A Sockets	63A Sockets
2P+E 4		

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 1P+E 32A	Terminal block	6kW	657.6934-113	657.6034-113
RCCB 2P 40A 30mA	Appliance inlet 2P+E 32A	6kW	657.6834-113	657.6134-113



16A Sockets	32A Sockets	63A Sockets
2P+E 3	3P+E 1	

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	657.6934-109	657.6034-109
RCCB 4P 40A 30mA	Appliance inlet 3P+N+E 32A	18kW	657.6834-109	657.6134-109



16A Sockets	32A Sockets	63A Sockets
2P+E 2	3P+E 1	3P+E 1

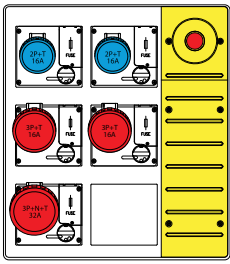
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.5935-017	657.5035-017
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.5835-017	657.5135-017

Without door



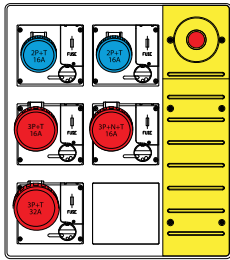
ASC distribution assemblies

■ MBOX3 >> INTERLOCKED SOCKET OUTLETS WITH FUSES



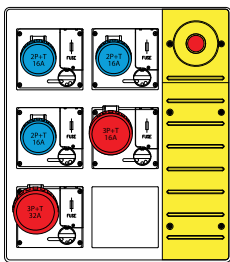
16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+E		3P+N+E		
2	2		1		

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.6935-087	657.6035-087
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.6835-087	657.6135-087



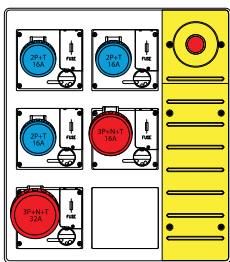
16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+E	3P+N+E	3P+N+E		
2	1	1	1		

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.6935-015	657.6035-015
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.6835-015	657.6135-015



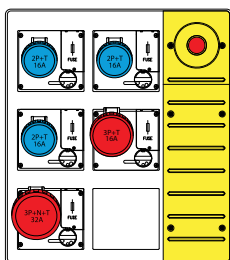
16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+E		3P+N+E		
3	1		1		

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.6935-013	657.6035-013
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.6835-013	657.6135-013



16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+N+E	3P+N+E	3P+N+E		
3	1		1		

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.6935-075	657.6035-075
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW		657.6135-075

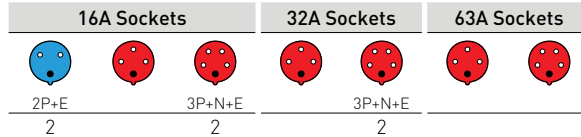
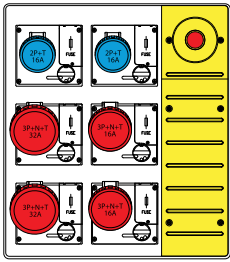


16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+E		3P+N+E		
3	1		1		

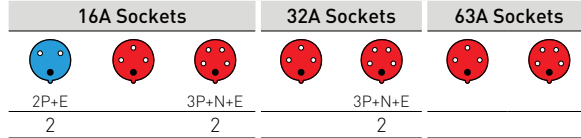
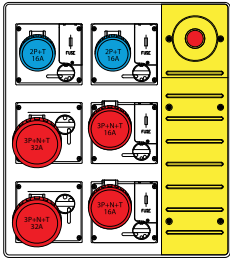
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.6935-213	657.6035-213
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.6835-213	657.6135-213



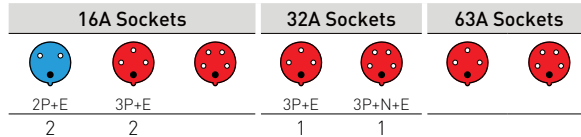
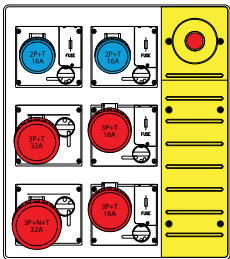
ASC distribution assemblies



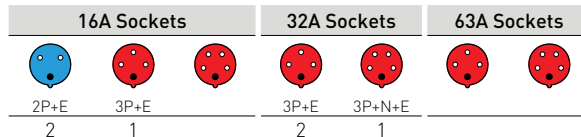
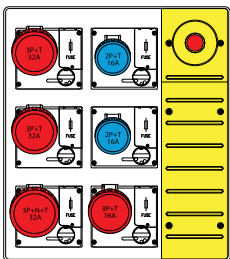
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.6936-027	657.6036-027
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.6836-027	657.6136-027



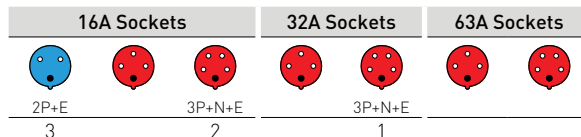
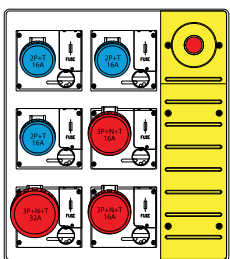
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	657.6936-042	657.6036-042
RCCB 4P 40A 30mA	Appliance inlet 3P+N+E 32A	18kW	657.6836-042	657.6136-042



Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	657.6936-045	657.6036-045
RCCB 4P 40A 30mA	Appliance inlet 3P+N+E 32A	18kW	657.6836-045	657.6136-045



Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.6936-048	657.6036-048
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 32A	35kW	657.6836-048	657.6136-048

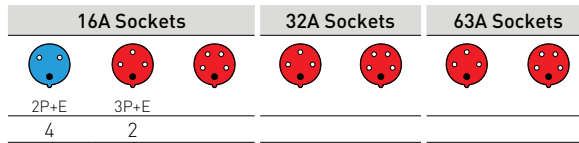
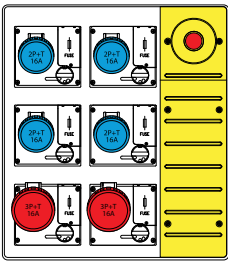


Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.6936-101	657.6036-101
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.6836-101	657.6136-101

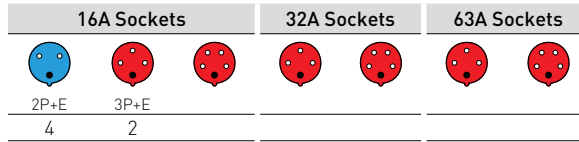
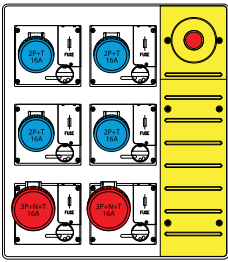


ASC distribution assemblies

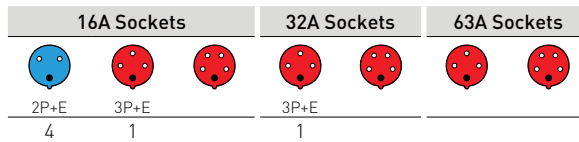
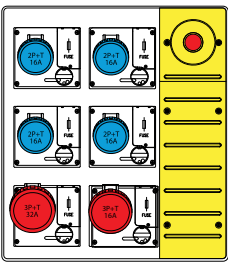
■ MBOX3 >> INTERLOCKED SOCKET OUTLETS WITH FUSES



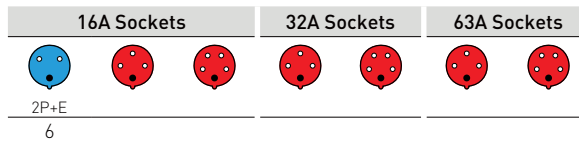
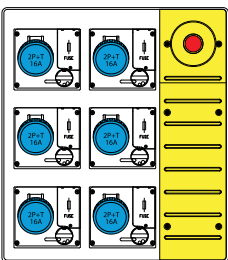
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	657.6936-067	657.6036-067
RCCB 4P 40A 30mA	Appliance inlet 3P+N+E 32A	18kW	657.6836-067	657.6136-067



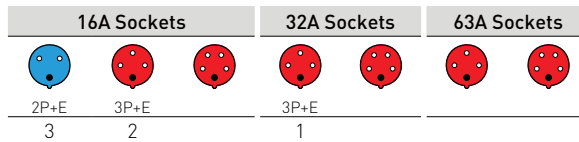
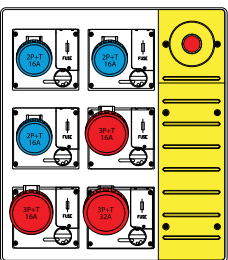
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 32A	Terminal block	18kW	657.6936-133	657.6036-133
RCCB 4P 40A 30mA	Appliance inlet 3P+N+E 32A	18kW	657.6836-133	657.6136-133



Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.6936-025	657.6036-025
RCCB 4P 63A 30mA				



Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 1P+E 32A	Terminal block	6kW	657.6936-057	657.6036-057
RCCB 2P 40A 30mA	Appliance inlet 2P+E 32A	6kW	657.6836-057	657.6136-057

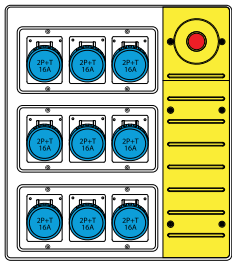


Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A	Terminal block	35kW	657.6936-022	657.6036-022
RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.6836-022	657.6136-022



ASC distribution assemblies

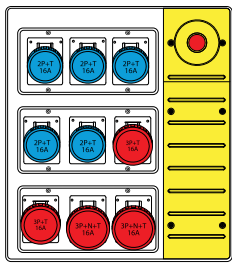
■ MBOX3 >> INDUSTRIAL SOCKET OUTLETS



16A Sockets	32A Sockets	63A Sockets
2P+E		
9		

Sockets protection	
MCB	9x 1P+E 16A

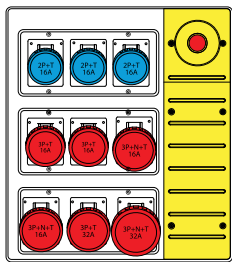
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.8839-825	



16A Sockets	32A Sockets	63A Sockets
2P+E 3P+E 3P+N+E		
5 2 2		

Sockets protection		
MCB	5x 1P+E 16A	1x 3P 16A 1x 4P 16A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.8839-826	



16A Sockets	32A Sockets	63A Sockets
2P+E 3P+E 3P+N+E	3P+E 3P+N+E	
3 2 2	1 1	

Sockets protection				
MCB	3x 1P+E 16A	1x 3P 16A	1x 4P 16A	1x 3P 32A 1x 4P 32A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A RCCB 4P 63A 30mA	Appliance inlet 3P+N+E 63A	35kW	657.8839-827	

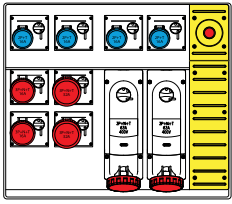


ASC distribution assemblies



PRE-ASSEMBLED DISTRIBUTION ASSEMBLIES
MBOX SERIES

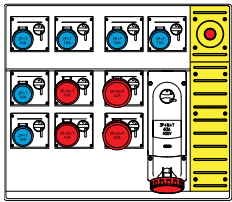
■ MBOX5 >> INTERLOCKED SOCKET OUTLETS WITHOUT FUSES



16A Sockets	32A Sockets	63A Sockets
2P+E 4	3P+N+E 2	3P+N+E 2

Sockets protection			
MCB	4x 1P 16A	2x 3P 16A	2x 3P 32A
RCCB			2x 3P 63A

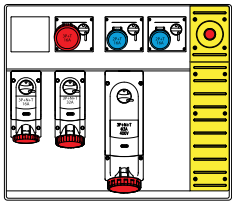
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB-RCCB 4P 100A 30mA	Terminal block Appliance inlet 3P+N+E 125A	55kW 55kW	658.8950-702 658.8850-702	658.8050-702 658.8150-702



16A Sockets	32A Sockets	63A Sockets
2P+E 6	3P+N+E 2	3P+N+E 1

Sockets protection			
MCB	6x 1P 16A	2x 3P 16A	2x 3P 32A
RCCB			1x 3P 63A

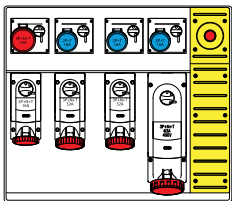
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB-RCCB 4P 100A 30mA	Terminal block Appliance inlet 3P+N+E 63A	55kW 55kW	658.8950-705 658.8850-705	658.8050-705



16A Sockets	32A Sockets	63A Sockets
2P+E 2	3P+E 1	3P+N+E 1

Sockets protection			
MCB	2x 1P 16A	2x 3P 16A	1x 3P 32A
RCCB			1x 3P 63A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB-RCCB 4P 100A 30mA	Terminal block Appliance inlet 3P+N+E 125A	55kW 55kW	658.8956-138 658.8856-138	658.8056-138 658.8156-138



16A Sockets	32A Sockets	63A Sockets
2P+E 3	3P+N+E 2	3P+N+E 2

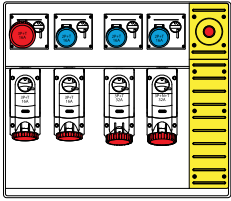
Sockets protection			
RCCB	1x 63A 4P 30mA	1x 63A 4P 30mA	1x 63A 4P 30mA
MCB	3x 1P 16A	2x 3P 16A	2x 3P 32A
			1x 3P 63A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 100A ¹⁾	Terminal block Appliance inlet 3P+N+E 125A	55kW 55kW	658.8958-088	658.8058-088 658.8158-088

¹⁾ Sockets RCCB protection.



ASC distribution assemblies

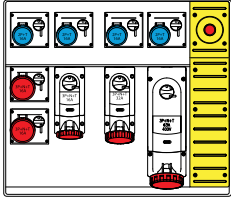


16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+E	3P+E	3P+N+E	3P+N+E	3P+N+E
3	3	1	1		

Sockets protection			
RCCB	1x	30mA	
	63A	4P	30mA
MCB	3x	3P 16A	2x 3P 32A
	1P 16A	3P 16A	3P 32A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A ¹⁾	Terminal block	35kW	658.8958-114	658.8058-114
	Appliance inlet 3P+N+E 63A	35kW	658.8858-114	658.8158-114

¹⁾Sockets RCCB protection.

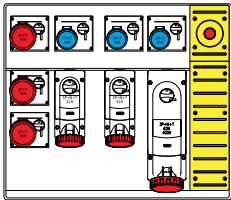


16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+N+E	3P+N+E	3P+N+E	3P+N+E	3P+N+E
4	3	1	1		

Sockets protection			
RCCB	1x	30mA	
	63A	4P	30mA
MCB	4x	3x	1x
	1P 16A	3P 16A	3P 32A
			1x 3P 63A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A ¹⁾	Terminal block	35kW	658.8959-043	658.8059-043
	Appliance inlet 3P+N+E 63A	35kW		658.8159-043

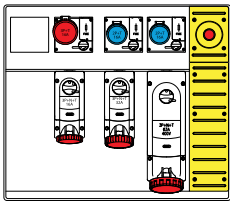
¹⁾Sockets RCCB protection.



16A Sockets		32A Sockets		63A Sockets	
2P+E	3P+E	3P+N+E	3P+N+E	3P+N+E	3P+N+E
3	3		2	1	

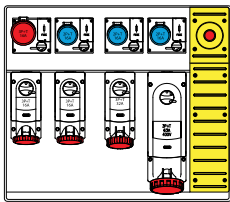
Sockets protection			
RCCB			
MCB	3x	3x	2x
	1P 16A	3P 16A	3P 32A
			1x 3P 63A

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB-RCCB 4P 100A 30mA	Terminal block	55kW	658.8959-229	658.8059-229
	Appliance inlet 3P+N+E 125A	55kW	658.8859-229	658.8159-229

■ MBOX5 - INTERLOCKED SOCKET OUTLETS WITH FUSES


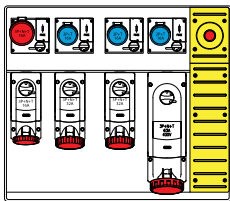
16A Sockets			32A Sockets		63A Sockets	
2P+E	3P+E	3P+N+E	3P+N+E		3P+N+E	
2	1	1	1		1	

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB-RCCB 4P 100A 30mA	Terminal block	55kW	658.6956-138	658.6056-138
	Appliance inlet 3P+N+E 125A	55kW	658.6856-138	658.6156-138



16A Sockets			32A Sockets		63A Sockets	
2P+E	3P+E	3P+N+E	3P+E		3P+E	
4	2		1		1	

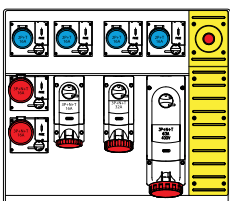
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB-RCCB 4P 100A 30mA	Terminal block	55kW	658.6958-034	658.6058-034
	Appliance inlet 3P+N+E 125A	55kW	658.6158-034	658.6158-034



16A Sockets			32A Sockets		63A Sockets	
2P+E		3P+N+E	3P+N+E		3P+N+E	
3		2	2		1	

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 100A ¹⁾	Terminal block	55kW	658.6958-088	658.6058-088
	Appliance inlet 3P+N+E 125A	55kW	658.6858-088	

¹⁾ Sockets RCCB protection.



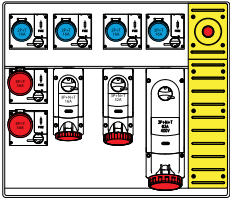
16A Sockets			32A Sockets		63A Sockets	
2P+E	3P+N+E		3P+N+E		3P+N+E	
4	3		1		1	

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A ¹⁾	Terminal block	35kW	658.6959-043	658.6059-043
	Appliance inlet 3P+N+E 63A	35kW	658.6859-043	658.6159-043
MCB 4P 100A ¹⁾	Terminal block	55kW	658.6959-052	658.6059-052
	Appliance inlet 3P+N+E 125A	55kW	658.6859-052	

¹⁾ Sockets RCCB protection.



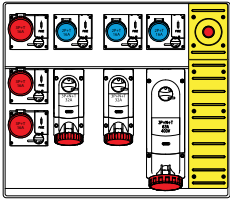
ASC distribution assemblies



16A Sockets			32A Sockets		63A Sockets	
4	2	1	1		1	

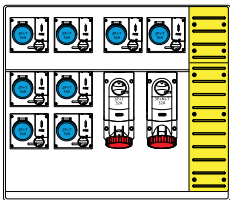
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 100A ¹⁾	Terminal block	55kW	658.6959-160	658.6059-160
	Appliance inlet 3P+N+E 125A	55kW	658.6859-160	658.6159-160

¹⁾Sockets RCCB protection.



16A Sockets			32A Sockets		63A Sockets	
3	3		2		1	

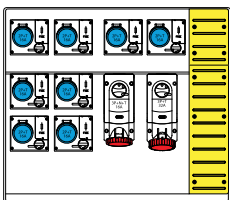
Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB-RCCB 4P 100A 30mA	Terminal block	55kW	658.6959-229	658.6059-229
	Appliance inlet 3P+N+E 125A	55kW	658.6859-229	



16A Sockets			32A Sockets		63A Sockets	
8			1	1		

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A ¹⁾	Terminal block	35kW		658.6050-066

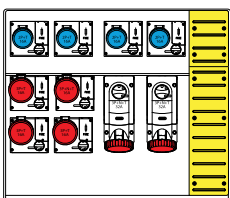
¹⁾Sockets RCCB protection.



16A Sockets			32A Sockets		63A Sockets	
6	2	1	1			

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB 4P 63A ¹⁾	Terminal block	35kW		658.6050-157

¹⁾Sockets RCCB protection.




16A Sockets			32A Sockets		63A Sockets	
4	3	1	2			

Main protection	Power supply	Power	With emergency push button IP65	Without emergency push button IP66
MCB-RCCB 4P 100A 30mA	Terminal block	55kW		658.6050-255



ASC distribution assemblies

■ ACCESSORIES - FUSES

Description	Rated current	Code	
ø10,3x38 type GG	16A	MP36275	
ø10,3x38 type GG	32A	MP36250	
D02 type NEOZED	63A	MP37299	

■ ACCESSORIES - STAND KIT




Description	Code	
MBOX2	656.0120	1



Description	Code	
MBOX3 - MBOX5	657.0121	1

■ ACCESSORIES - TURRET FIXING KIT FOR MBOX2



Description	Code	
Pole with panel fixing plate, handle cover, threaded blocks and screws for panel-turret assembly	656.0220	1



Description	Code	
Optional steel back closing plate	656.0221	1



Description	Code	
Optional plate for fixing the turret into concrete (provided with anchoring brackets and stud bolts)	656.0222	1



MEGA Series

MEGA is a range of distribution assemblies for construction site, equipped with a robust self-standing metal structure with a protective roof, with installed capacities from 55 to 375 KW. They allow the realization of combination units of interlocked socket outlets in thermoplastic or thermosetting material up to 125A, with relevant consumer units and junction boxes. Each MEGA distribution assembly is supplied with declaration of conformity and wiring scheme. For any customization requirement a precise analysis and estimation service is active in SCAME.

Applications examples



Building construction site



Terminal Container

Compositions examples



Interlocked socket outlets in grp thermosetting material on metal stand



Interlocked socket outlets in grp thermosetting material on metal support for surface mounting



Interlocked socket outlets in thermoplastic material in metal cabinet

1.7 DISTRIBUTION ASSEMBLIES

Pre-assembled distribution assemblies



IMPACT Series

IMPACT is a range of empty enclosures for distribution assemblies in non-deformable rubber or polyethylene, self-extinguishing and with high resistance to impact and atmospheric and chemical agents. The IMPACT series enclosures guarantee safe use in the most adverse environmental conditions and in the presence of strong mechanical stresses, even continuous. The black color of the enclosures makes them suitable also for use in the public show sector where they are appreciated for their ease of movement through their comfortable handles. Available in single-sided and double-sided version for the installation of industrial or domestic socket outlets. Every distribution assembly is equipped of compliance declaration and electric diagram. For every personalise configuration need it is active in SCAME a punctual system of analysis and budgeting.

 technical sheet p. 852

Technical information

Main characteristics



- 01** Enclosure designed to ensure stackability
- 02** Equipable with:
 - OPTIMA Series industrial sockets up to 125A available in industrial grey or black colour
 - IP54 DOMO Series / IP66 DOMOPLUS Series domestic sockets
- 03** Recessed sockets to minimise the risk of accidental impacts
- 04** Raised base to avoid contact with the ground in outdoor applications
- 05** Feet for solid support on the ground
- 06** Protections compartment and inlet rear positioned
- 07** Enclosures in butyl rubber or LLDPE (linear low-density polyethylene) for maximum resistance to impact (IK10), heat (GW 960°C), atmospheric and chemical agents
- 08** Integrated handles to facilitate transportation of the distribution assembly

Applications examples



Public entertainment



Building construction site

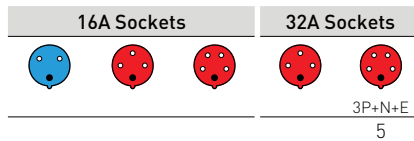
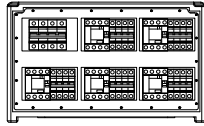
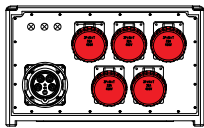
Special versions



Compact versions equipped with cable and plug.

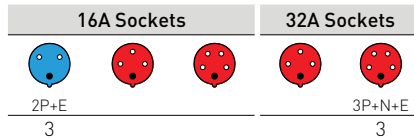
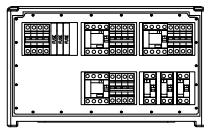
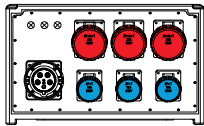


■ WIRED LLDPE DISTRIBUTION ASSEMBLIES >> IP65



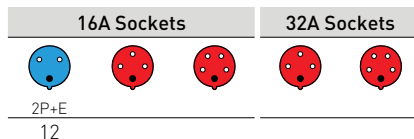
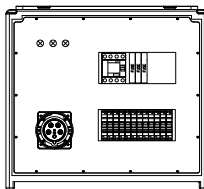
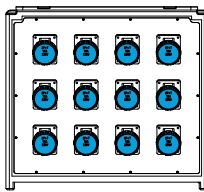
		Sockets protection		
MCB	RCCB	5x		
		32A	4P	30mA
MCB		5x		
		4P	32A	

Main protection	Power supply	Dimension (WxHxD)	With black coloured socket outlets	With standard coloured socket outlets
MCB 125A 4P	3P+N+E 125A Appliance inlet	560x380x350mm	690.5602-1712K	690.5602-1712



		Sockets protection			
MCB	RCCB	1x			
		40A	4P	30mA	2x
MCB		3x			40A
		1P+E	16A	1x	4P
				2x	32A
				4P	32A

Main protection	Power supply	Dimension (WxHxD)	With black coloured socket outlets	With standard coloured socket outlets
MCB 63A 4P	3P+N+E 63A Appliance inlet	560x380x350mm	690.5602-1713K	690.5602-1713

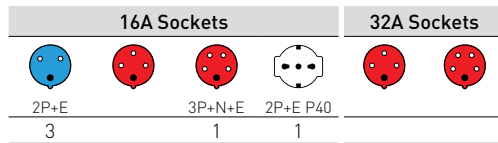
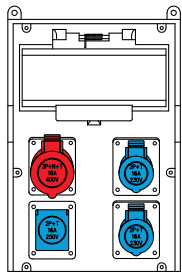


		Sockets protection		
MCB	RCCB			
		12x		
MCB		1P+E	16A	

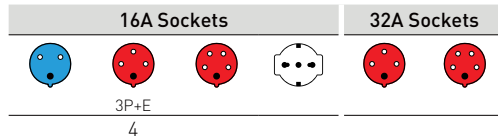
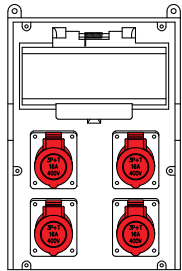
Main protection	Power supply	Dimension (WxHxD)	With black coloured socket outlets	With standard coloured socket outlets
RCCB 63A 4P 30mA	3P+N+E 63A Appliance inlet	560x560x500mm	690.5603-1714K	690.5603-1714

■ WIRED RUBBER DISTRIBUTION ASSEMBLIES >> IP44

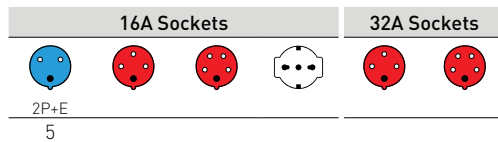
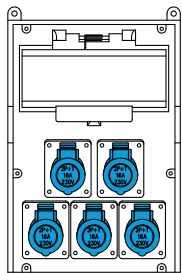
PRE-ASSEMBLED DISTRIBUTION ASSEMBLIES
IMPACT SERIES



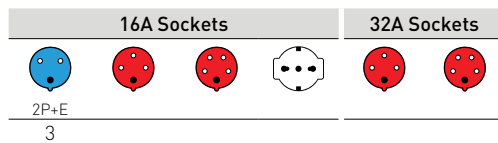
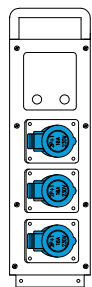
Main protection	Power supply	Dimension (WxHxD)	With black coloured socket outlets	With standard coloured socket outlets
MCB 16A 4P + 3 x MCB 16A 1P	3P+N+E 32A Appliance inlet	260x380x150mm	690.4200-301K	690.4200-301



Main protection	Power supply	Dimension (WxHxD)	With black coloured socket outlets	With standard coloured socket outlets
2 x MCB 16A 3P	3P+E 32A Appliance inlet	260x380x150mm	690.4200-295K	690.4200-295



Main protection	Power supply	Dimension (WxHxD)	With black coloured socket outlets	With standard coloured socket outlets
5 x sez. 16A 1P	2P+E 16A Appliance inlet	260x380x150mm	690.4200-300K	690.4200-300



Main protection	Power supply	Dimension (WxHxD)	With black coloured socket outlets	With standard coloured socket outlets
MCB 16A 1P+E RCCB 25A 2P 30mA	2P+E 16A Appliance inlet	130x450x83mm	690.4205-062K	690.4205-062



DOMINO Series

DOMINO is a range of distribution assemblies made of shockproof and self-extinguishing thermoplastic material, ideal for industrial, service and construction site applications. Available in 4 different sizes with protection compartment from 8 to 24 DIN and industrial socket outlets up to 63A, also interlocked, or waterproof domestic standard socket outlets.

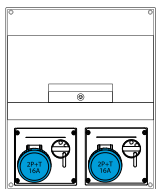
DOMINO distribution assemblies are available for surface installation or as mobile version with cable and plug.

Each distribution assembly is supplied with declaration of conformity and wiring scheme.

For any customization requirement, a precise analysis and estimate service is active in SCAME.

technical sheet p. 847

■ DOMINO >> INTERLOCKED SOCKET OUTLETS

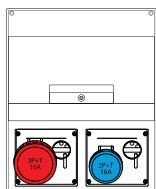


16A Sockets



2P+E
2

Version	Protections	Power	IP44	IP66
Surface mounting	2 MCB 1P 16A	6kW	671.3020-77	
Portable with 4m cable and 2P+E 16A plug	MCB 2P 16A RCCB 2P 25A 30mA	3kW	670.3026-77	670.3526-1486

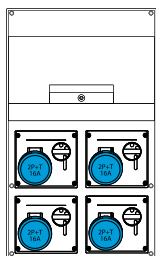


16A Sockets



2P+E 3P+E
1 1

Version	Protections	Power	IP44	IP66
Surface mounting	1 MCB 2P 16A 1 MCB 3P 16A	12kW	671.3020-75	671.3520-75



16A Sockets

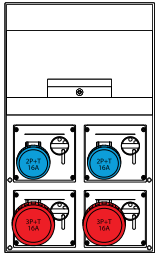


2P+E
4

Version	Protections	Power	IP44	IP66
Surface mounting	4 MCB 1P 16A	12kW	671.6040-95	
Portable with 4m cable and 2P+E 16A plug	MCB 2P 16A RCCB 2P 25A 30mA	3kW	670.6046-12	670.6546-12

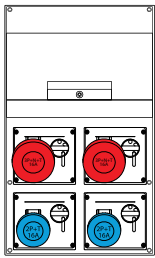


ASC distribution
assemblies


16A Sockets

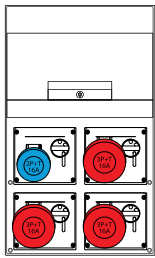

2P+E	3P+E
2	2

Version	Protections	Power	IP44	IP66
Surface mounting	2 MCB 1P 16A 2 MCB 3P 16A	24kW	671.6040-03	671.6540-03
Portable with 4m cable and 3P+N+E 16A plug	MCB 4P 16A RCCB 4P 25A 30mA	9kW	670.6046-03	670.6546-03


16A Sockets

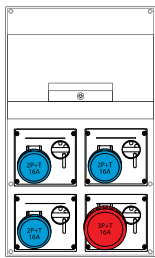

2P+E	3P+N+E
2	2

Version	Protections	Power	IP44
Surface mounting	2 MCB 1P 16A 2 MCB 4P 16A	24kW	671.6040-06


16A Sockets


2P+E	3P+E
1	3

Version	Protections	Power	IP44
Surface mounting	1 MCB 1P 16A 3 MCB 3P 16A	30kW	671.6040-07

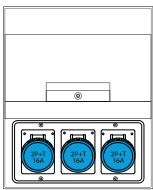

16A Sockets


2P+E	3P+N+E
3	1

Version	Protections	Power	IP44	IP66
Portable with 4m cable and 3P+N+E 16A plug	MCB 4P 16A RCCB 4P 25A 30mA	9kW	670.6046-08	670.6546-08


 ASC distribution
 assemblies

■ DOMINO >> INDUSTRIAL SOCKET OUTLETS

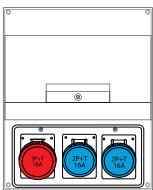


16A Sockets



2P+E
3

Version	Protections	Power	IP44	IP66
Surface mounting	-	9kW	671.3030-97	671.3530-97
Portable with 4m cable and 2P+E 16A plug	MCB 2P 16A RCCB 2P 25A 30mA	3kW		670.3536-62

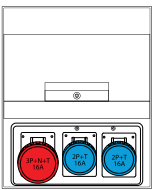


16A Sockets



2P+E 3P+E
2 1

Version	Protections	Power	IP44	IP66
Surface mounting	-	15kW	671.3030-59	671.3530-59
Portable with 4m cable and 3P+N+E 16A plug	MCB 4P 16A RCCB 4P 25A 30mA	9kW		670.3536-59

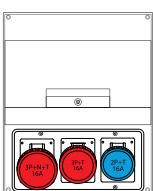


16A Sockets



2P+E 3P+E
2 1

Version	Protections	Power	IP66
Portable with 4m cable and 3P+N+E 16A plug	MCB 4P 16A RCCB 4P 25A 00mA	9kW	670.3536-61



16A Sockets

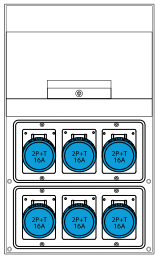
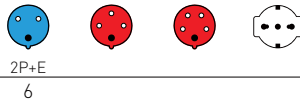


2P+E 3P+E 3P+N+E
1 1 1

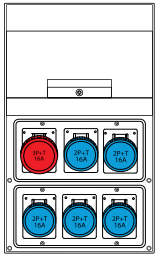
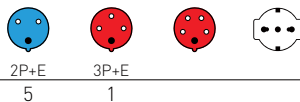
Version	Protections	Power	IP66
Portable with 4m cable and 3P+N+E 16A plug	MCB 3P 32A RCCB 4P 40A 30mA	18kW	670.3536-438



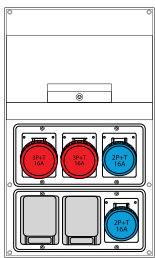
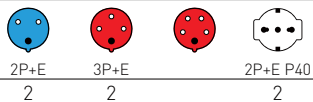
ASC distribution
assemblies


16A Sockets


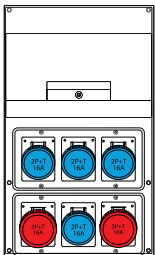
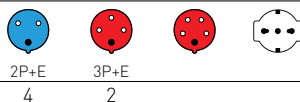
Version	Protections	Power	IP66
Portable with 4m cable and 2P+E 16A plug	MCB 2P 16A RCCB 2P 25A 30mA	3kW	670.6566-119
Portable with 4m cable and 3P+N+E 32A plug	MCB 1P 16A RCCB 4P 40A 30mA	18kW	670.6566-126


16A Sockets


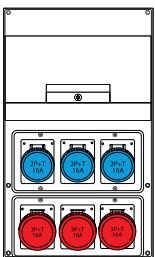
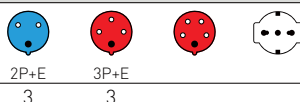
Version	Protections	Power	IP66
Portable with 4m cable and 3P+N+E 32A plug	1 MCB 3P 16A 3 MCB 1P 16A RCCB 4P 40A 30mA	18kW	670.6566-366


16A Sockets


Version	Protections	Power	IP66
Portable with 4m cable and 3P+N+E 16A plug	MCB 4P 16A RCCB 4P 25A 30mA	9kW	670.6566-111


16A Sockets


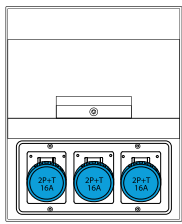
Version	Protections	Power	IP66
Surface mounting	4 MCB 1P 16A - 2 MCB 3P 16A	30kW	671.6560-115
Portable with 4m cable and 3P+N+E 16A plug	MCB 4P 16A RCCB 4P 25A 30mA	9kW	670.6566-115





16A Sockets


Version	Protections	Power	IP66
Surface mounting	3 MCB 1P 16A 3 MCB 3P 16A	35kW	671.6560-117
Portable with 4m cable and 3P+N+E 16A plug	MCB 4P 16A RCCB 4P 25A 30mA	9kW	670.6566-117

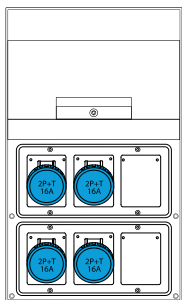





ASC distribution assemblies

DOMINO >> FOR CAMPING SITES - IP66


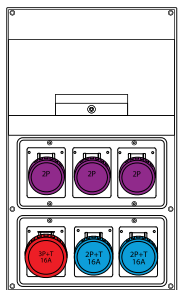
16A Sockets		
		
2P+E		
3		




Version	Protections		
Surface mounting	3 MCB 1P+E 16A 3 RCCB 2P 25A 30mA	671.3536-729	1



16A Sockets		
		
2P+E		
4		

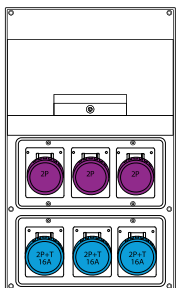
Version	Protections		
Surface mounting	4 MCB 1P+E 16A 4 RCCB 2P 25A 30mA	671.6546-730	1




DOMINO >> WITH SAFETY TRANSFORMER


16A Sockets		
		
2P+E	3P+E	2P - 24V
2	1	3

Version	Protections	Power	IP66
Portable with 4m cable and 3P+N+E 16A plug	MCB 4P 16A RCCB 4P 25A 30mA 1 MCB 2P 3A - 1MT 1P 10A 2 sez. 1P 16A - 1 sez. 3P 32A	Trasf: 3000VA 9kW (230-24V)	670.6569-148

Safety transformer 220/24V- SELV.



16A Sockets		
		
2P+E		2P - 24V
3		3

Version	Protections	Power	IP66
Portable with 4m cable and 2P+E 16A plug	MCB 2P 16A RCCB 2P 25A 30mA 1 MCB 1P 10A 3 sez. 1P 16A	Trasf: 3000VA 3kW (230-24V)	670.6569-149

Safety transformer 220/24V- SELV.

■ DOMINO >> OUTLET WITH TERMINAL BLOCKS

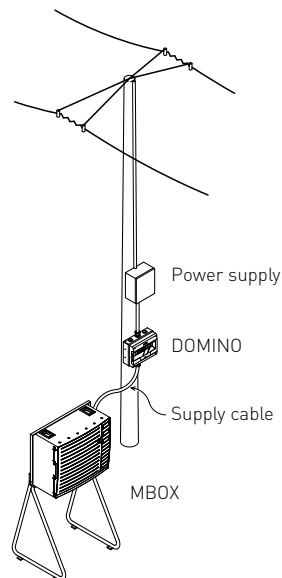


Version	Protections	Power	Without emergency push button IP66	With emergency push button IP65
Surface mounting	MCB / RCCB 4P 125A	70kW	671.2012-001 ¹⁾	671.2912-001 ¹⁾
	MCB / RCCB 4P 100A 30mA	55kW	671.2012-002 ²⁾	671.2912-002 ²⁾
	MCB 4P 63A RCCB 4P 63A 30mA	35kW	671.2012-003 ¹⁾	671.2912-003 ¹⁾
	MCB 4P 32A RCCB 4P 40A 30mA	18kW	671.2012-004 ²⁾	671.2912-004 ²⁾
	MCB 1P+E 16A RCCB 2P 25A 30mA	3kW	671.2012-005 ²⁾	
	MCB 2P 32A RCCB 2P 40A 30mA	6kW	671.2012-009 ²⁾	
	MCB 4P 63A RCCB 4P 63A 300mA	35kW	671.2012-010	
	MCB 4P 32A RCCB 4P 40A 300mA	18kW	671.2012-011	
	MCB 4P 32A RCCB 4P 40A 300mA SEL Type A	18kW	671.2012-015	

No earthing is required for this assembly.

¹⁾ Consumer unit 16 DIN.

²⁾ Consumer unit 12 DIN.



ASC distribution assemblies

1.7 DISTRIBUTION ASSEMBLIES

Pre-assembled distribution assemblies

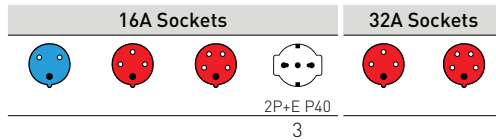
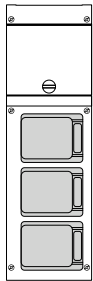


BLOCK Series

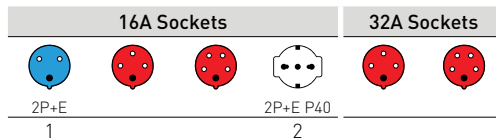
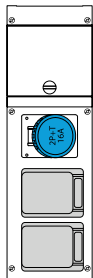
BLOCK is a range of compact distribution assemblies made of shockproof and self-extinguishing thermoplastic material, ideal for the supply of small and medium-sized users in the industrial, tertiary and construction site sectors. Available in four sizes, from 4 to 14 DIN, with industrial socket outlets up to 32A and waterproof domestic socket outlets. Mobile versions, equipped with cable and plug, are easy to transport thanks to the retractable tilting handle. Each panel is supplied with declaration of conformity and wiring scheme. For any customization requirement, a precise analysis and estimation service is available.

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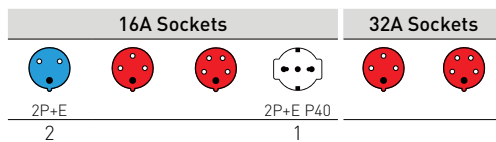
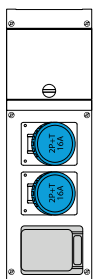
■ BLOCK 3



Version	Protections	Power	IP44	IP66
Portable with 1,5m cable and 2P+E 16A plug	MCB 2P 16A	3kW	630.3000-055	
	MCB 2P 16A RCCB 2P 25A 30mA	3kW	630.3006-055	630.3506-055
Surface mounting	MCB 1P+E 16A	3kW	632.3000-055	
	MCB 1P+E 16A RCCB 2P 25A 30mA	3kW	632.3006-055	



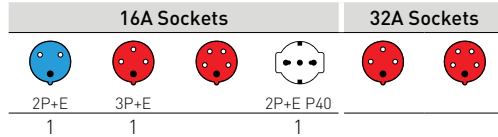
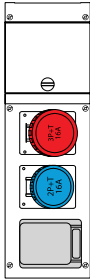
Version	Protections	Power	IP44	IP66
Portable with 1,5m cable and 2P+E 16A plug	MCB 2P 16A RCCB 2P 25A 30mA	3kW	630.3006-362	630.3506-362



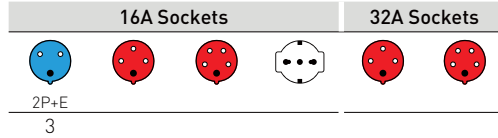
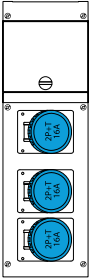
Version	Protections	Power	IP44	IP66
Portable with 1,5m cable and 2P+E 16A plug	MCB 2P 16A	3kW	630.3000-054	
	MCB 2P 16A RCCB 2P 25A 30mA	3kW	630.3006-054	630.3506-054
	MCB 1P+E 16A RCCB 2P 25A 30mA	3kW		630.3506-1268
Surface mounting	MCB 1P+E 16A	3kW	632.3000-054	
	MCB 1P+E 16A RCCB 2P 25A 30mA	3kW	632.3006-054	



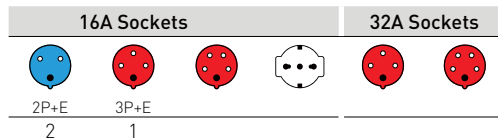
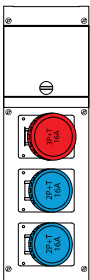
ASC distribution assemblies



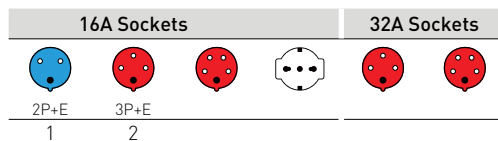
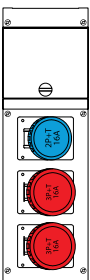
Version	Protections	Power	IP44	IP66
Portable with 1,5m cable and 3P+N+E 16A plug	MCB 4P 16A RCCB 4P 16A 30mA	9kW	630.3006-052	630.3506-052



Version	Protections	Power	IP44	IP66
Portable with 1,5m cable and 2P+E 16A plug	MCB 2P 16A	3kW	630.3000-062	630.3500-062
	MCB 2P 16A RCCB 2P 25A 30mA	3kW	630.3006-062	630.3506-062
	MCB 1P+E 16A RCCB 2P 25A 30mA	3kW		630.3506-1057
Surface mounting	MCB 2P 16A	3kW	632.3000-062	632.3500-062
	MCB 2P 16A RCCB 2P 25A 30mA	3kW		632.3506-062

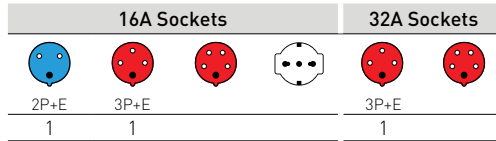
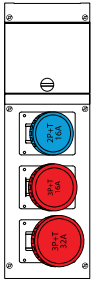


Version	Protections	Power	IP44	IP66
Portable con 1,5mt cable and 3P+N+E 16A plug	MCB 4P 16A	9kW	630.3000-059	630.3500-059
	MCB/RCCB 4P 16A 30mA	9kW	630.3006-059	630.3506-059
Surface mounting	MCB 4P 16A	9kW	632.3000-059	632.3500-059
	MCB/RCCB 4P 16A 30mA	9kW	632.3006-059	632.3506-059

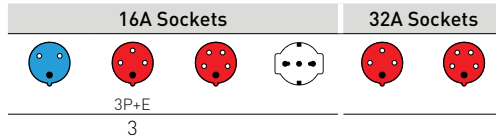
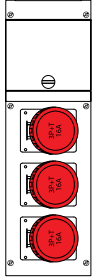


Version	Protections	Power	IP44	IP66
Portable with 1,5m cable and 3P+N+E 16A plug	MCB 4P 16A	9kW	630.3000-060	630.3500-060
	MCB/RCCB 4P 16A 30mA	9kW	630.3006-060	630.3506-060
Surface mounting	MCB 4P 16A	9kW	632.3000-060	632.3500-060
	MCB/RCCB 4P 16A 30mA	9kW	632.3006-060	632.3506-060

BLOCK 3

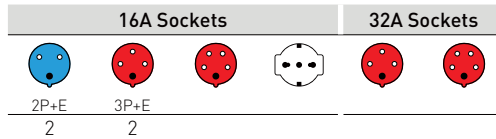
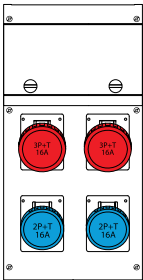


Version	Protections	Power	IP44	IP66
Surface mounting	MCB 4P 16A	9kW	632.3000-324	632.3500-324
	MCB / RCCB 4P 16A 30mA	9kW	632.3006-324	632.3506-324

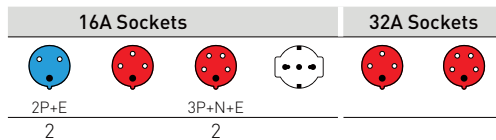
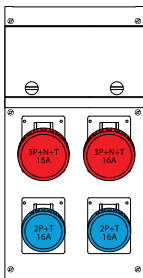


Version	Protections	Power	IP44	IP66
Portable with 1,5m cable and 3P+E 16A plug	MCB 3P 16A	9kW	630.3000-063	630.3500-063
	MCB / RCCB 4P 16A 30mA	9kW	630.3006-063	630.3506-063
Surface mounting	MCB 3P 16A	9kW	632.3000-063	632.3500-063
	MCB / RCCB 4P 16A 30mA	9kW	632.3006-063	632.3506-063

BLOCK 4



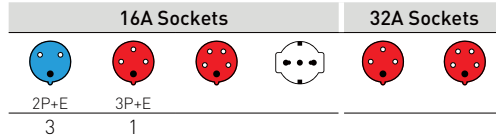
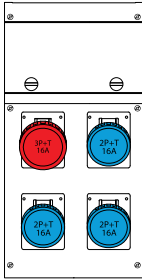
Version	Protections	Power	IP44	IP66
Portable with 4m cable and 3P+N+E 16A plug	MCB 4P 16A	9kW	630.4000-003	630.4500-003
	MCB 4P 16A RCCB 4P 25A 30mA	9kW	630.4006-003	630.4506-003
Portable with 2m cable and 3P+N+E 16A plug	MCB 4P 16A	9kW		630.4506-1060
	RCCB 4P 25A 30mA			
Portable on support with roof 1,5m cable and 3P+N+E 16A plug	MCB 4P 16A RCCB 4P 25A 30mA	9kW	630.4106-003	632.4606-003
Surface mounting	MCB 4P 16A	9kW	632.4000-003	632.4500-003
	MCB 4P 16A RCCB 4P 25A 30mA	9kW	632.4006-003	632.4506-003



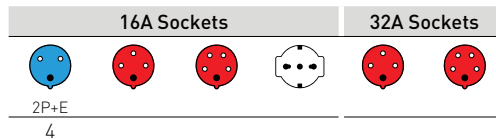
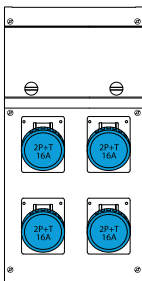
Version	Protections	Power	IP44	IP66
Portable with 4m cable and 3P+N+E 16A plug	MCB 4P 16A	9kW	630.4000-006	630.4500-006
	MCB 4P 16A RCCB 4P 25A 30mA	9kW	630.4006-006	630.4506-006
	MCB 4P 16A	9kW	632.4000-006	632.4500-006
Surface mounting	MCB 4P 16A RCCB 4P 25A 30mA	9kW	632.4006-006	632.4506-006



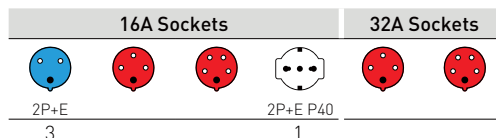
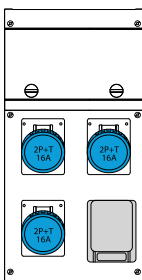
ASC distribution assemblies



Version	Protections	Power	IP44	IP66
Portable with 4m cable and 3P+N+E 16A plug	MCB 4P 16A	9kW	630.4000-008	630.4500-008
	MCB 4P 16A RCCB 4P 25A 30mA	9kW	630.4006-008	630.4506-008
Portable with 2m cable and 3P+N+E 16A plug	MCB 4P 16A RCCB 4P 25A 30mA	9kW		630.4506-1059
Portable on support with roof 1,5m cable and 3P+N+E 16A plug	MCB 4P 16A RCCB 4P 25A 30mA	9kW	632.4106-008	630.4606-008
Surface mounting	MCB 4P 16A	9kW	632.4000-008	632.4500-008
	MCB 4P 16A RCCB 4P 25A 30mA	9kW	632.4006-008	632.4506-008



Version	Protections	Power	IP44	IP66
Portable with 4m cable and 2P+E 16A plug	MCB 2P 16A	3kW	630.4000-012	630.4500-012
	MCB 2P 16A RCCB 2P 25A 30mA	3kW	630.4006-012	630.4506-012
	MCB 1P+E 16A RCCB 2P 25A 30mA	3kW		630.4506-331
Portable with 2m cable and 2P+E 16A plug	MCB 1P+E 16A RCCB 2P 25A 30mA	3kW		630.4506-1058
Portable on support with roof 1,5m cable and 2P+E 16A plug	MCB 2P 16A RCCB 2P 25A 30mA	3kW	630.4106-012	630.4606-012
Surface mounting	MCB 2P 16A	3kW	632.4000-012	632.4500-012
	MCB 1P+E 16A RCCB 2P 25A 30mA	3kW	632.4006-012	632.4506-012



Version	Protections	Power	IP66
Portable with 2m cable and 2P+E 16A plug	MCB 1P+E 16A RCCB 2P 25A 30mA	3kW	630.4506-1484

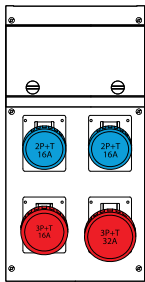


Support with roof in steel.
Allows the distribution assembly to be sustained for a correct earth usage.



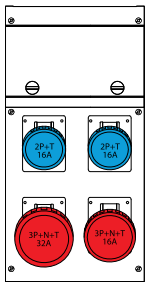
ASC distribution assemblies

BLOCK 4



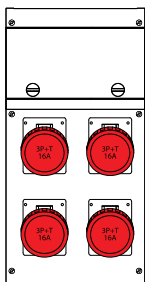
16A Sockets			32A Sockets	
2P+E	3P+E		3P+E	
2	1		1	

Version	Protections	Power	IP44	IP66
Portable with 4m cable and 3P+N+E 32A plug	MCB 4P 16A	9kW	630.4000-326	630.4500-326
Surface mounting	MCB 4P 16A	9kW	632.4000-326	632.4500-326
	MCB 4P 16A RCCB 4P 25A 30mA	9kW	632.4006-326	632.4506-326



16A Sockets			32A Sockets	
2P+E	3P+N+E		3P+N+E	
2	1		1	

Version	Protections	Power	IP44	IP66
Portable with 4m cable and 3P+N+E 32A plug	MCB 4P 16A	9kW	630.4000-328	630.4500-328
Surface mounting	MCB 4P 16A RCCB 4P 25A 30mA	9kW	630.4006-328	630.4506-328
	MCB 4P 16A	9kW	632.4000-328	632.4500-328
	MCB 4P 16A RCCB 4P 25A 30mA	9kW	632.4006-328	632.4506-328



16A Sockets			32A Sockets	
	3P+E		3P+N+E	
	4		1	

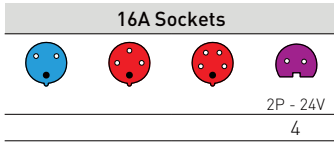
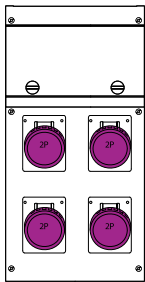
Version	Protections	Power	IP44	IP66
Portable on support with roof 1,5m cable and 3P+E 16A plug	MCB 3P 16A RCCB 4P 25A 30mA	9kW	630.4106-013	630.4606-013



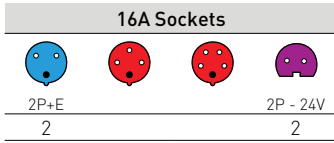
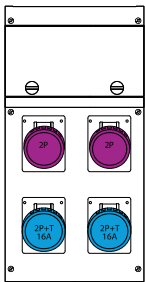
Support with roof in steel.
Allows the distribution assembly to be sustained for a correct earth usage.



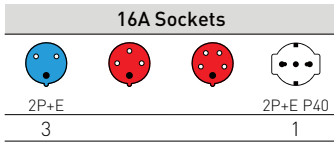
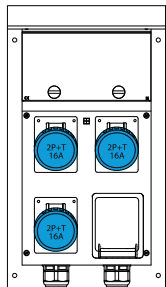
ASC distribution assemblies

■ BLOCK 4 >> WITH SAFETY TRANSFORMER


Version	Protections	Power	IP44	IP66
Surface mounting	MCB 1P+E 3A	300VA (230/24V) transformer	632.4009-014	632.4509-014



Version	Protections	Power	IP44	IP66
Surface mounting	MCB 1P+E 16A	150VA (230/24V) transformer	632.4009-015	632.4509-015

■ BLOCK 4 >> LOOP-IN/LOOP-OUT


Version	Protections	Power	IP66
Steel support for surface mounting	MCB 4P16A RCCB 4P 25A 30mA	9kW	632.4706-1549
	4xMT 1P+E 16A RCCB 4P 40A 30mA	18kW	632.4706-1550

■ ACCESSORIES


Description	Code	
Stand for BLOCK4 distribution assemblies	654.0600	2



Description	Code	
Support with roof for BLOCK 4 distribution assemblies	654.0620	1



MOBIL Series

MOBIL is a range of distribution assemblies for construction site, on a foldable and easy to transport metal stand.

■ DISTRIBUTION ASSEMBLIES WITH FOLDING STAND



Socket					Protections			IP55	
220V 2P+E 16A	380V 3P+E 16A	380V 3P+E 32A	380V 3P+N+T 16A	380V 3P+N+E 32A	Main MCB/RCCB 4P (32A)	Sockets MCB 1P (16A)	MCB 3P (16A)		
4	-	1	1	-	1	4	1	670.9566-456	1
4	1	-	1	-	1	2	2	670.9566-457	1
3	1	-	1	1	1	2	2	670.9566-458	1
3	1	-	2	-	1	2	2	670.9566-459	1
6	-	-	-	-	1 ¹⁾	-	-	670.9566-464	1
6	-	-	-	-	1 ²⁾	6	-	670.9566-465	1
4	1	1	-	-	1	4	1	670.9566-466	1
4	-	-	1	1	1	4	1	670.9566-467	1

Wired, ready to use.

Power supply: appliance inlet 380V – 3P+N+E 32A – IP67.

Main switch: MCB/RCCB 30 mA.

MCBs for the sockets protection.

Interlocked socket outlets OMNIA Series.

Foldable stand provided with handle.

Dimensions (closed) 686x392 mm.

¹⁾ RCD 2P 25A + MCB 1P+N – 16A + Appliance inlet 220V – 2P+E – 16A – IP67.

²⁾ Isolator + RCD 4P 40°.



ASC distribution assemblies

Applications examples



1.7 DISTRIBUTION ASSEMBLIES

Devices for specific applications



DEVICES FOR SPECIFIC APPLICATIONS

LV-LUX SERIES

p. 524

Distribution assemblies for extra low voltage <50V



TRANSFORMER SERIES

p. 525

Distribution assemblies with safety and insulation transformer



SALVAMOTORE SERIES

p. 526

Distribution assemblies for motor cut-out





LV-LUX Series




LV-LUX is a range of distribution assemblies, equipped with a 1.5m rubber cable and 16A industrial plug, typically used for the diffusion of extra low voltage (24V) on scaffolding on construction sites.

Powered at 230V, they are available with a 150VA or 300VA transformer.

Both versions are equipped with a twilight switch which, if activated, can adjust the power supply to the sockets as the ambient light changes.

■ DISTRIBUTION ASSEMBLIES FOR NIGHT-TIME POWER SUPPLY OF LIGHTS INDICATING WORKING AREAS



Description	Plug	IP44	
Safety transformer 220/24V--SELV  150VA	2P+E - 16A - 220V	630.001	1
Safety transformer 220/24V--SELV  300VA	2P+E - 16A - 220V	630.002	1

A light sensor turns the lights on and off according to the amount of atmospheric light.

With twilight switch.

2 socket outlets, 2P 24V-, 16A.

Assembled with SCABOX enclosures.



TRANSFORMER Series

TRANSFORMER is a range of distribution assemblies with safety or insulation transformer ideal for the use of electrical appliances in restricted places limited by metal or conductive surfaces. They are fundamental for the safety of the operators if they come into contact with such surfaces through a large part of the body with limited possibility of interrupting this contact. Examples of narrow conductive places may be small metal tanks, inside of metal pipes, damp tunnels, narrow excavations in the ground or pylons.

■ ACS ASSEMBLIES WITH SAFETY AND ISOLATING TRANSFORMER



Voltage [V]	Power [VA]	Sockets IP67	Cutoff switch (1P+E)	Plug switch (1P)	IP55	
230/24V	1.000 VA	2x2Px32A 24V	1MT 6A	2MT 16A	630.011	1
	1.500 VA	2x2Px32A 24V	1MT 8A	2MT 32A	630.012	1
230/48V	1.000 VA	2x2Px32A 48V h12	1MT 6A	2MT 10A	630.021	1
	1.500 VA	2x2Px32A 48V h12	1MT 8A	2MT 16A	630.022	1
230/230V	1.000 VA	1x2P+Tx16A 220V h6	1MT 6A	1MT 6A	630.031	1
	1.500 VA	1x2P+Tx16A 220V h6	1MT 10A	1MT 10A	630.032	1

Note: the equipment must be kept outside narrow conducting spaces.

2P+E IP67 16A 230V 6h Plug.

Rubber electric cable 2x1,5 mm² H07RN-F (length 1,5 m).

Safety transformer: SELV protection (230/24V and 230/48V).

Isolating transformer: electric shielding protection (230/230V).

Provided with housing mod. SCABOX complete with lifting handle.

MCB with operating time complying with D curve diagram.



SALVAMOTORE Series

SALVAMOTORE is a range of devices for application on board the machine such as cranes, cement mixers, circular saws, acting as a functional control, emergency stop and thermal protection of the connected equipment. SALVAMOTORE avoids the restart of the machine after any lack of tension, thus guaranteeing maximum safety for the operator.

■ EMPTY ENCLOSURE



Description	Code	
Without appliance inlet Equipped DIN Rail and cable gland.	299.1600-00	1/10

■ SINGLE PHASE STOP-START UNIT



Description	In (A)	Loc (kA)	Motor Power ¹⁾		Code	
			kW	CV		
16A 2P+E 6h - 230V~ thermal device	16	-	2,2	3	299.1693-00	1/10
16A 2P+E 6h - 230V~ thermal device+fuse	16	6	2,2	3	299.1693-01	1/10

Protection with relay, thermal device and fuse.
With appliance inlet and 1,2m of H07RN-F rubber cable.
The combination relay + thermal device is set for a current not exceeding 16A.

¹⁾ Motor power calculated with, rated voltage 230/400V and $\cos \phi 0,7$.

■ MOTOR CUT-OUT

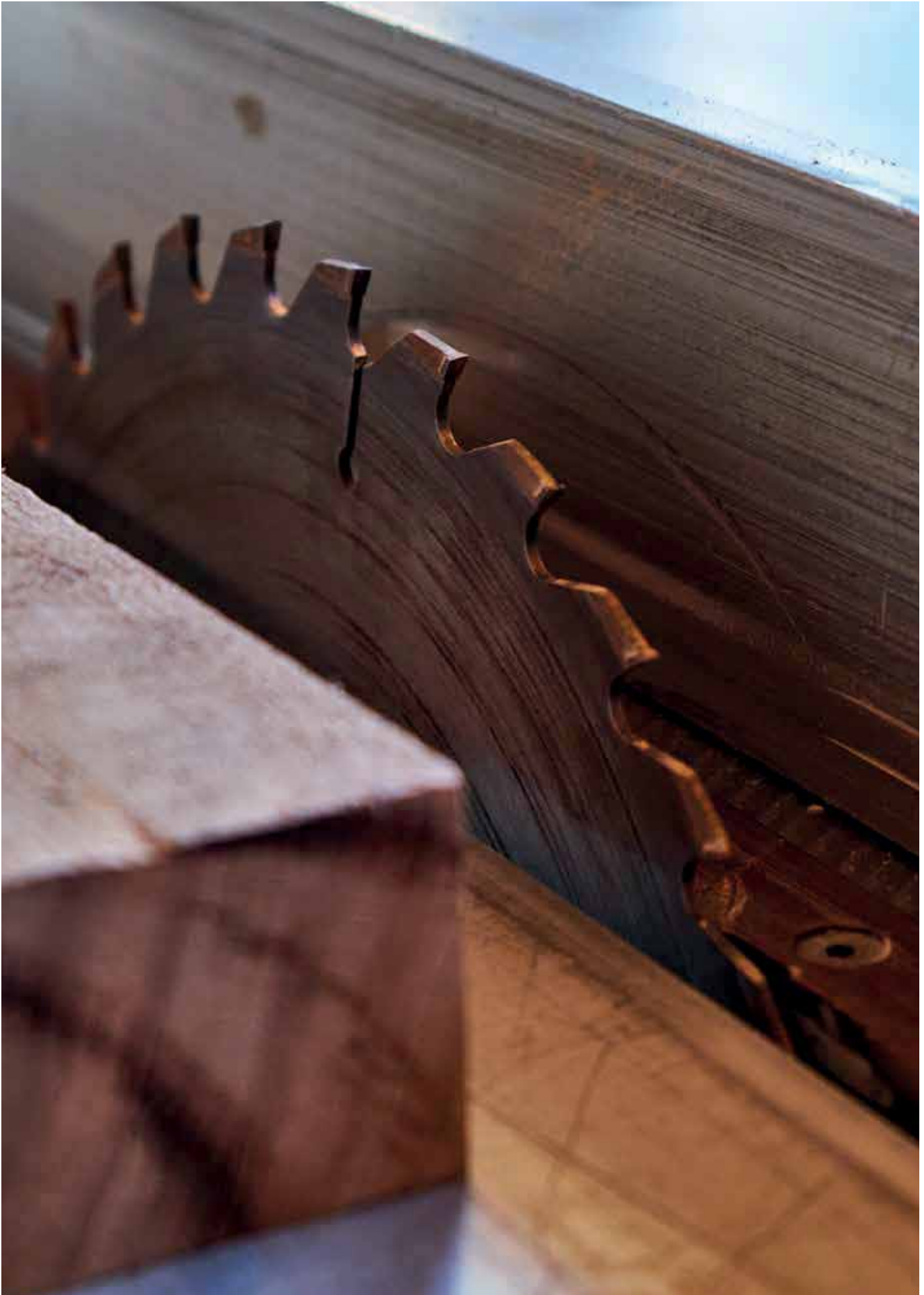


Description	In (A)	Loc (kA)	Motor Power ¹⁾		Code	
			kW	CV		
16A 2P+E 6h - 230V~	1,6 - 2,5	6	0,2 - 0,4	0,3 - 0,5	299.1693-02	1/10
	2,5 - 4,0	6	0,4 - 0,6	0,5 - 0,9	299.1693-04	1/10
	4,0 - 6,3	6	0,6 - 1,0	0,9 - 1,4	299.1693-06	1/10
	6,3 - 10	6	1,0 - 1,6	1,4 - 2,2	299.1693-10	1/10
	10 - 16	6	1,6 - 2,6	2,2 - 3,5	299.1693-16	1/10
16A 3P+E 6h - 400V~	1,6 - 2,5	6	0,7 - 1,2	1,0 - 1,5	299.1696-02	1/10
	2,5 - 4,0	6	1,2 - 1,9	1,5 - 2,5	299.1696-04	1/10
	4,0 - 6,3	6	1,9 - 3	2,5 - 4,1	299.1696-06	1/10
	6,3 - 10	6	3 - 4,8	4,1 - 6,6	299.1696-10	1/10
	10 - 16	6	4,8 - 7,7	6,6 - 10,5	299.1696-16	1/10

Protection with normal starter switch on low-voltage tripping device.
With appliance inlet and 2m of H07RN-F rubber cable.
The motor starter switch can be set on the limit current according to the motor power.

¹⁾ Motor power calculated with, rated voltage 230/400V and $\cos \phi 0,7$.

Applications examples



1.7 DISTRIBUTION ASSEMBLIES
Pre-assembled distribution pedestals



PRE-ASSEMBLED DISTRIBUTION PEDESTALS

KIOSK SERIES

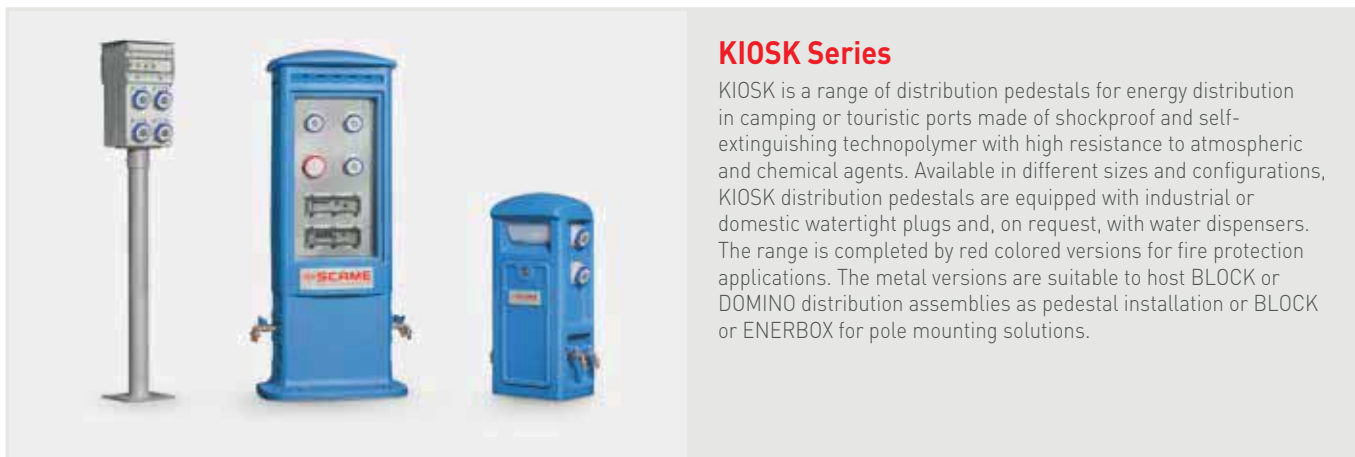
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Pedestals for energy distribution in public areas




1.7 DISTRIBUTION ASSEMBLIES

Pre-assembled distribution pedestals



KIOSK Series

KIOSK is a range of distribution pedestals for energy distribution in camping or touristic ports made of shockproof and self-extinguishing technopolymer with high resistance to atmospheric and chemical agents. Available in different sizes and configurations, KIOSK distribution pedestals are equipped with industrial or domestic watertight plugs and, on request, with water dispensers. The range is completed by red colored versions for fire protection applications. The metal versions are suitable to host BLOCK or DOMINO distribution assemblies as pedestal installation or BLOCK or ENERBOX for pole mounting solutions.

 technical sheet p. 853

Technical information

Main characteristics pole mounting versions



- 01** Protections compartment lit with twilight sensor
- 02** Single-sided and double-sided versions in configurations up to OPTIMA industrial sockets with SAFE-IN safety device
- 03** Pole with roof in galvanised steel painted with polyester epoxy paint

- 04** Window in transparent polycarbonate for easy checking of the state of the protections
- 05** Prepared for power supply cable gland

Main characteristics DOMINO metal versions



- 01** Window equipped with triangular key (Yale key on request)
- 02** Single-sided and double-sided versions available
- 03** Water service on request
- 04** Enclosure in painted sheet metal or in AISI 316L stainless steel. Maximum resistance to chemical and atmospheric agents and to corrosion.
- 05** Houses DOMINO Series distribution assemblies equipable with:
 - OPTIMA Series industrial sockets with SAFE-IN device
 - OMNIA Series industrial interlocked sockets
- 06** Standard lighting with twilight sensor

Main characteristics BLOCK metal versions



- 01** Window equipped with triangular key (Yale key on request)
- 02** Houses BLOCK Series distribution assemblies equipable with:
 - OPTIMA Series industrial sockets with SAFE-IN device
 - IP54 DOMO Series / IP66 DOMOPLUS Series domestic sockets
- 03** Painted sheet metal enclosure

Main characteristics

SMART-K thermoplastic versions



01 Front pathway lighting as standard

02 Access door to the protection compartment with key lock with dedicated mapping

03 Water service on request

04 Shockproof and self-extinguishing engineering plastics enclosure with high resistance to chemicals, atmospheric agents and UV rays.

05 Side walls equipable with:
 - OPTIMA Series industrial sockets with SAFE-IN device
 - OMNIA Series industrial interlocked sockets / OMNIAPLUS Series domestic interlocked sockets

Accessory



Base in thermoplastic material for underground installation. It guarantees flexibility to the column by limiting damage from accidental impacts

Fire-proof versions

(P. 475)



659.SKFIRE-E
 Equipable with fire-extinguisher

659.SKFIRE-M
 Equipped with fire-hose UNI45

Main characteristics SMART-C thermoplastic versions



- 01** Front and rear LED lighting
- 02** Shockproof and self-extinguishing engineering plastics enclosure with high resistance to chemicals, atmospheric agents and UV rays
- 03** Water service on request
- 04** Protections compartment window padlockable on request
- 05** Equipable with:
 - OPTIMA Series industrial sockets with SAFE-IN device
 - OMNIA Series industrial interlocked sockets / OMNIAPLUS Series domestic interlocked sockets
- 06** Stainless steel plate

Accessory



Base in thermoplastic material for underground installation. It guarantees flexibility to the column by limiting damage from accidental impacts

Fire-proof versions

(P. 475)



659.SCFIRE-E
Equipable with
fire-extinguisher

659.SCFIRE-M
Equipped with
fire-hose UNI45

Main characteristics

SMART-X thermoplastic versions



01 Upper protections compartment with key lock with dedicated mapping

02 Equipable with up to 4 x OPTIMA Series industrial sockets with SAFE-IN device

The whole KIOSK Series is available with "SAFE-IN" safety device

The "SAFE-IN" safety device, assembled on specific versions of the 16A industrial sockets of the OPTIMA Series, works like the protection installed on household sockets: by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the sockets.

SAFETY LEVEL OF THE OPTIMA SERIES SOCKETS

The OPTIMA Series sockets with the "SAFE-IN" safety device guarantee a higher level of safety in comparison with ordinary industrial sockets, especially in environments where there may be children present or people who have not been trained about electrical dangers (public areas, amusement parks, campgrounds, open markets, etc.).

Dangerous situations can be resolved thanks to the OPTIMA Series sockets equipped with the "SAFE-IN" safety device.



■ POLE MOUNTING - IP66



16A Sockets	Versions	Code	
 2P+E			
4	Single-sided	659.BL5141-10	1
8	Double-sided	659.BL5181-11	1

4A-6A-10A-16A RCBO.
Without water service.

■ POLE MOUNTING - IP55



16A Sockets	Versions	Code	
 2P+E			
2	Single-sided	659.EN5121-01	1
4	Double-sided	659.EN5141-10	1

4A-6A-10A-16A RCBO.
Without water service.

■ BLOCK METAL VERSION - IP66



16A Sockets	Versions	Code	
 2P+E			
4	Single-sided	659.BA5140-02	1

4A-6A-10A-16A RCBO.
Without water service.
Without light kit.






1.7 DISTRIBUTION ASSEMBLIES

Pre-assembled distribution pedestals

■ DOMINO VERSIONS >> INTERLOCKED SOCKET OUTLETS - IP66






16A Sockets	Versions	Metal sheet	Steel	
 2P+E  3P+N+E				
2	Single-sided	659.DA5221-01	659.DB5221-01	1
4	Single-sided	659.DA5241-02	659.DB5241-02	1
4	Single-sided	659.DA5243-07 ¹⁾		1
8	Double-sided	659.DA5281-03	659.DB5281-03	1
3	Single-sided	659.DA5241-04	659.DB5241-04	1
6	Double-sided	659.DA5281-05	659.DB5281-05	1

4A-6A-10A-16A RCBO.
 Dimensions (mm): 487x1235x375.
 With light kit.
 Water service upon request.

¹⁾ With 4 water services.

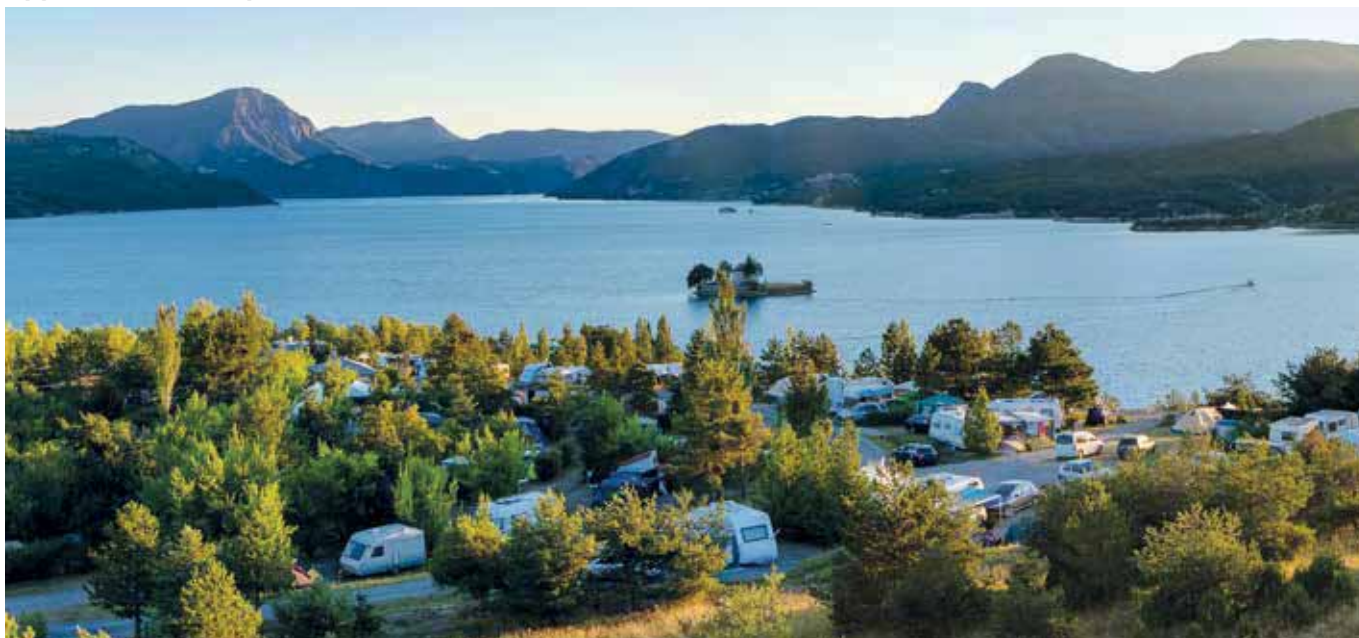
■ DOMINO VERSIONS >> INDUSTRIAL SOCKET - IP66



16A Sockets	Versions	Metal sheet	Steel	
 2P+E  3P+N+E				
2	Single-sided	659.DA5121-01	659.DB5121-01	1
4	Single-sided	659.DA5141-02	659.DB5141-02	1
8	Double-sided	659.DA5181-03	659.DB5181-03	1
3	Single-sided	659.DA5141-04	659.DB5141-04	1
6	Double-sided	659.DA5181-05	659.DB5181-05	1

4A-6A-10A-16A RCBO.
 Dimensions (mm): 487x1235x375.
 With light kit.
 Water service upon request.

Applications examples



■ SMART-K TERMOPLASTIC VERSIONS >> INTERLOCKED SOCKET OUTLETS - IP56



16A Sockets	Versions	Code	
2P+E 3P+N+E			
2	Double-sided	659.SK5221-01	1
2	Double-sided	659.SK5223-32 ¹⁾	1
4	Double-sided	659.SK5241-02	1
4	Double-sided	659.SK5243-08 ²⁾	1
3	1	659.SK5241-04	1
3	1	659.SK5243-18 ²⁾	1

4A-6A-10A-16A RCBO.
 Dimensions (mm): 340x810x260.
 With light kit.
 Water service upon request.

¹⁾ With 2 water services.
²⁾ With 4 water services.

■ SMART-K TERMOPLASTIC VERSIONS >> INDUSTRIAL SOCKET OUTLETS - IP56



16A Sockets	Versions	Code	
2P+E 3P+N+E			
2	Double-sided	659.SK5121-01	1
2	Double-sided	659.SK5123-12 ¹⁾	1
4	Double-sided	659.SK5141-02	1
4	Double-sided	659.SK5143-07 ²⁾	1
3	1	659.SK5141-04	1




4A-6A-10A-16A RCBO.
 Dimensions (mm): 340x810x260.
 With light kit.
 Water service upon request.

¹⁾ With 2 water services.
²⁾ With 4 water services.



■ SMART-C TERMOPLASTIC VERSIONS >> INTERLOCKED SOCKET OUTLETS - IP56






16A Sockets	Versions	Code	
 2P+E  3P+N+E			
2	Single-sided	659.SC5221-01	1
4	Single-sided	659.SC5241-02	1
3	1	659.SC5241-04	1

4A-6A-10A-16A RCBO.
 Dimensions (mm): 580x1400x450.
 With light kit.
 Water service upon request.

■ SMART-C TERMOPLASTIC VERSIONS >> INDUSTRIAL SOCKET OUTLETS - IP56



16A Sockets	Versions	Code	
 2P+E  3P+N+E			
2	Single-sided	659.SC5121-01	1
4	Single-sided	659.SC5141-02	1
4	Single-sided	659.SC5142-36 ¹⁾	1
4	Single-sided	659.SC5141-11G ²⁾	1
3	1	659.SC5141-04	1

4A-6A-10A-16A RCBO.
 Dimensions (mm): 580x1400x450.
 With light kit.
 Water service upon request.

¹⁾ With 4 water services.

²⁾ With coin acceptor.

■ SMART-X TERMOPLASTIC VERSIONS >> INDUSTRIAL SOCKET OUTLETS - IP56



Available sockets	16A	IP66 / IP67	Versions	Code	
4			Double-sided	659.SX5140-02	1
4A-6A-10A-16A RCBO. Dimensions (mm): 368x980x318. With light kit. Water service upon request.					

■ ACCESSORIES



Description	Code	
SMART-C base support	659.SCBASE	1
SMART-K base support	659.SKBASE	1







**INDUSTRIAL
ADAPTORS**





INDUSTRIAL ADAPTORS

ADAPTO Series

p. 544

Adaptors for industrial applications





ADAPTO Series

ADAPTO is a range of one way system adapters characterized by a 16A 2P + T industrial plug and domestic socket outlets in the main international standards. Ideal for feeding small appliances equipped with a domestic plug in environments where the energy is distributed via CEE industrial connectors. ADAPTO is also available 16A domestic standard plug and 2P+E 16A industrial socket configuration. The offer includes industrial adapters with phase inverter, current adapters and configuration adapters. As prescribed by the Reference Standards, all adapters are for temporary use. The offer is completed by multi-way adapters with integrated plug or with cable and industrial plug. The versions based on ADAPTO series enclosures with cutouts allow the installation of industrial socket outlets or waterproof socket outlets in the main domestic standards, with the possibility to mount also protection devices.

technical sheet p. 859

■ PHASE SEQUENCE ADAPTORS FOR VOLTAGES >50V - 50 HZ



16A Plug	16A Socket			Voltage	IP44	
3P+E - 9h	3P+E - 6h	3P+N+E - 6h	3P+E - 9h	3P+E - 6h	3P+N+E - 6h	
1			1			200/250 V
	1			1		380/415 V
		1			1	346/415 V
						610.3444
						610.3646
						610.3747
						10/50
						10/50
						10/50

This device reverses the sequence of phases between the power supply and the rotating machine. It must be plugged in between the rotating machine plug and the power supply socket.

Specially useful for temporary connection to the three-phase power supply of machines such as concrete mixers, small cranes, sanders, drills, circular saws, etc.

■ CURRENT ADAPTORS FROM 32A TO 16A FOR VOLTAGES >50V - 50 HZ



32A Plug	16A Socket		Voltage	IP44	
3P+E - 9h	3P+E - 6h	3P+E - 9h	3P+E - 6h		
1		1		200/250 V	610.3464
	1		1	380/415 V	610.3666
					10/50
					10/50

Used to supply 16A loads with 3P+E plugs from 32A 3P+E power supply sockets.

The adaptor's 32A plug is first plugged into the 32A power supply socket and then the 16A plug of the load to be supplied is plugged into the adaptor's 16A socket.

■ CONFIGURATION ADAPTORS FROM 3P+N+E TO 3P+E FOR VOLTAGES >50V 50 HZ



16A Plug	16A Socket	Voltage	IP44	
3P+N+E - 6h	3P+E - 6h			
1	1	380/415 V	610.3746	10/50

Used to supply 16A loads with 3P+E plugs from 16A 3P+N+E power supply sockets.

The adaptor's 16A 3P+N+E plug is first plugged into the 16A 3P+N+E power supply socket and then the 16A 3P+E plug of the load to be supplied is plugged into the adaptor's 16A 3P+E socket.

■ WITH DOMESTIC PLUG - IP20



Domestic plug 16A	Industrial socket 16A	IP20	
	 2P+E - 6h		
1	1	610.379	10/100



Domestic plug 16A	Industrial socket 16A	IP20	
	 2P+E - 6h		
1	1	610.383	10/100



Domestic plug 16A	Industrial socket 16A	IP20	
	 2P+E - 6h		
1	1	610.384	10/100

■ WITH INDUSTRIAL PLUG - IP20



Industrial plug 16A	Domestic socket	IP20	
 2P+E - 6h	 French		
1	1	610.391	10/100

IP44 protection degree with closed lid.



Industrial plug 16A	Domestic socket	IP20	
 2P+E - 6h	 British		
1	1	610.392	10/100

IP44 protection degree with closed lid.



Industrial plug 16A	Domestic socket	IP20	
 2P+E - 6h	 Brazilian		
1	1	610.394	10/100

IP44 protection degree with closed lid.



■ WITH INDUSTRIAL PLUG - IP20



Industrial plug 16A	Domestic socket	IP20	
 2P+E - 6h	 Italian P17/11		
1	1	610.380	10/100



Industrial plug 16A	Domestic socket	IP20	
 2P+E - 6h	 Italian P17/11		
1	2	610.370	10/100



Industrial plug 16A	Domestic socket	IP20	
 2P+E - 6h	 Italian P30		
1	1	610.382	10/100



Industrial plug 16A	Domestic socket	IP20	
 2P+E - 6h	 Italian P30		
1	1	610.372	10/100



Industrial plug 16A	Domestic socket	IP20	
 2P+E - 6h	 Pluristandard		
1	1	610.371	10/100



Industrial plug 16A	Domestic socket	IP20	
 2P+E - 6h	 Italian P17/11	 Italian P30	
1	2	1	610.388
1	1	1	610.390



Industrial plug 16A	Domestic socket	IP20	
 2P+E - 6h	 French		
1	1	610.374	10/100



Italian
standard P17/11
2P+E 16A



Italian
standard P30
2P+E 16A



Pluristandard
P40
2P+E 16A



French
standard
2P+E 16A



Industrial plug 16A	Domestic socket	IP20	
2P+E - 6h	British		
1	1	610.375	10/100



Industrial plug 16A	Domestic socket	IP20	
2P+E - 6h	British		
1	1	610.376	10/100



Industrial plug 16A	Domestic socket	IP20	
2P+E - 6h	Swiss		
1	2	610.368	10/100



Industrial plug 16A	Domestic socket	IP20	
2P+E - 6h	Argentinian		
1	1	610.377	10/100



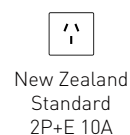
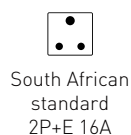
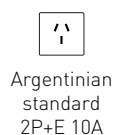
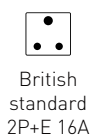
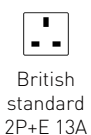
Industrial plug 16A	Domestic socket	IP20	
2P+E - 6h	Argentinian		
1	1	610.378	10/100



Industrial plug 16A	Domestic socket	IP20	
2P+E - 6h	South African		
1	1	610.367	10/100



Industrial plug 16A	Domestic socket	IP20	
2P+E - 6h	New Zealand		
1	1	610.369	10/100



ADAPTO Series

■ 2-WAY ADAPTORS



with cable and plug

16A Socket outlets			32A Socket outlet		Power supply		IP44		IP66	
					Plug	Cable				
2					16A 2P+E	3x2,5	604.1623/C	1/6	605.1623/C	1/6
	2				16A 3P+E	4x4	604.1626/C	1/6	605.1626/C	1/6
		2			16A 3P+N+E	5x2,5			605.1627/C	1/6
1	1				16A 3P+N+E	5x2,5	604.1629/C	1/6		
			2		32A 3P+E	4x4	604.3226/C	1/6	605.3226/C	1/6
				2	32A 3P+N+E	5x4	604.3227/C	1/6	605.3227/C	1/6

2 m of H07RN-F rubber cable.



with appliance inlet

16A Socket outlets			32A Socket outlet		Power supply		IP44		IP66	
					Plug					
2					16A 2P+E		600.1623	1/6	601.1623	1/6
	2				16A 3P+E		600.1626	1/6	601.1626	1/6
		2			16A 3P+E		600.1626/I¹⁾	1/6		
			2		16A 3P+N+E		600.1627	1/6	601.1627	1/6
1	1				16A 3P+N+E		600.1629	1/6	601.1629	1/6

¹⁾ 1 socket with reversed phases.

■ 3-WAY ADAPTORS



with cable and plug

16A Socket outlets				Power supply		IP44		IP66	
				Plug	Cable				
	3			16A 2P+E	3x2,5	602.3005-062	1/6	602.3505-062	1/6
		3		16A 3P+E	4x2,5	602.3005-063	1/6	602.3505-063	1/6
			3	16A 3P+N+E	5x2,5	602.3005-064	1/6	602.3505-064	1/6
	2	1		16A 3P+N+E	5x2,5	602.3005-059	1/6	602.3505-059	1/6
	2		1	16A 3P+N+E	5x2,5	602.3005-061	1/6	602.3505-061	1/6

2 m of H07RN-F rubber cable.



with appliance inlet

16A Socket outlets				Power supply		IP44		IP66	
				Terminal block 16mm ²					
	3			To be wired into the terminal block		603.3005-062	1/10	603.3005-062	1/10
		3		To be wired into the terminal block		603.3005-063	1/10	603.3005-063	1/10
			3	To be wired into the terminal block		603.3005-064	1/10	603.3005-064	1/10
	2	1		To be wired into the terminal block		603.3005-059	1/10	603.3005-059	1/10
	2		1	To be wired into the terminal block		603.3005-061	1/10	603.3005-061	1/10

3-WAY ADAPTORS



with cable and plug

16A Socket outlets				Power supply		IP44	IP66
				Plug	Cable		
3				16A 2P+E	3x2,5	606.3015-479	1/6 606.3515-479
	3			16A 2P+E	3x2,5	606.3015-062	1/6 606.3515-062
		3		16A 3P+E	4x2,5	606.3015-063	1/6 606.3515-063
	2	1		16A 3P+N+E	5x2,5	606.3015-059	1/6 606.3515-059

2 m of H07RN-F rubber cable.



with appliance inlet

16A Socket outlets				Power supply		IP44	IP66
				Terminal block 16mm ²			
3				To be wired into the terminal block		606.3005-479	1/6 606.3505-479
	3			To be wired into the terminal block		606.3005-062	1/6 606.3505-062
		3		To be wired into the terminal block		606.3005-063	1/6 606.3505-063
	2	1		To be wired into the terminal block		606.3005-059	1/6 606.3505-059

5-WAY ADAPTORS



with cable and plug

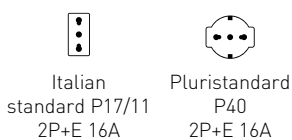
16A Socket outlets					Power supply		IP44
					Plug	Cable	
3			2		16A 2P+E	3x2,5	602.5005-358
	3		1	1	16A 3P+N+E	5x2,5	602.5005-359
		3	2	2	16A 3P+N+E	5x2,5	602.5005-360

2 m of H07RN-F rubber cable.



with appliance inlet

16A Socket outlets					Power supply		IP44
					Terminal block 16mm ²		
3			2		To be wired into the terminal block		603.5005-358
	3		1	1	To be wired into the terminal block		603.5005-359
		3	2	2	To be wired into the terminal block		603.5005-360







INDUSTRIAL ADAPTORS
ADAPTO SERIES

■ 3-WAY ADAPTORS WITH PROTECTION DEVICE







with cable
and plug

16A Socket outlets		Protection devices		IP44	IP66
				RCD 30mA	MCB
Protection devices: MCB					
2			1	2P 16A	623.3000-056 1 1
3				2P 16A	623.3000-062 1 623.3500-062 1
	3			3P 16A	623.3000-063 1 623.3500-063 1
Protection devices: MCB+RCD					
2			1	2P 25A 2P 16A	623.3006-054 1 1
3				2P 25A 2P 16A	623.3006-062 1 623.3506-062 1
	3			4P 25A 3P 16A	623.3006-063 1 623.3506-063 1

Power supply: to be wired directly to the circuit breaker terminals.



elevated installation
(tubular stand to be
ordered separately)

16A Socket outlets		Protection devices		IP66	
				RCD 30mA	MCB
Protection devices: MCB					
2	1			4P 16A	625.3500-059 1
1	2			4P 16A	625.3500-060 1
	3			2P 16A	625.3500-062 1
		3		3P 16A	625.3500-063 1
Protection devices: MCB+RCD					
2	1			4P 25A 4P 16A	625.3506-059 1
1	2			4P 25A 4P 16A	625.3506-060 1
	3			2P 25A 2P 16A	625.3506-062 1
		3		4P 25A 3P 16A	625.3506-063 1

Power supply: to be wired directly to the circuit breaker terminals.



Italian
standard P17/11
2P+E 16A



Pluristandard
P40
2P+E 16A

4-WAY ADAPTORS



with cable and plug

16A Socket outlets		Power supply		IP44	IP66
					Terminal block 16mm ²
2	2			To be wired into the terminal block	623.4005-003 1 623.4505-003 1
2	2			To be wired into the terminal block	623.4005-006 1 623.4505-006 1
		2	2	To be wired into the terminal block	623.4005-010 1 1
		4		To be wired into the terminal block	623.4005-012 1 623.4505-012 1



elevated installation
(tubular stand to be ordered separately)

16A Socket outlets		Power supply		IP66	
					Terminal block 16mm ²
2	2			To be wired into the terminal block	625.4505-003 1
		4		To be wired into the terminal block	625.4505-012 1

3 WAY ADAPTORS FOR CAMPING AND CARAVAN GROUNDS



Description	IP66
3 Sockets 2P+E - 16A - 250V~ 6h	625.3506-728 1

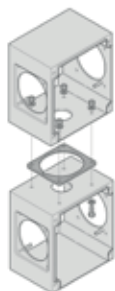
Versions suitable for camping grounds are available: they comply with the installation requirements of standard IEC 60364, which require a 30mA RCD every three sockets and each socket to be protected by its own MCB.
Equipped with PG21 cable gland, cable clamp and terminal block.
Tubular stand not included.

ACCESSORIES



Description	Code
Zinc-plated steel tubular stand ADAPTO Series	692.4340 1

ADAPTORS COUPLING KIT

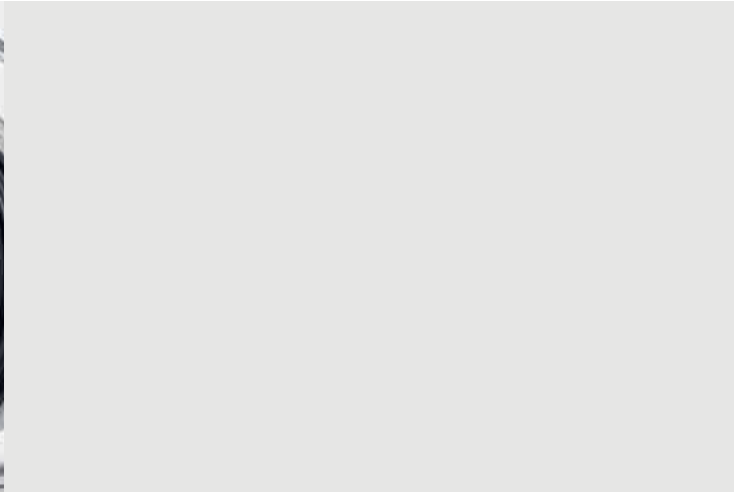


Description	Code
Coupling kit	692.4342 5

3-way and 4-way adaptors can be coupled together as shown in the drawing.
The kit includes all the screws, nuts, washers and seals required to couple together 3-way and 4-way adaptors.

Italian standard P17/11 2P+E 16A
 Pluristandard P40 2P+E 16A





**INDUSTRIAL
CABLE REELS**





INDUSTRIAL CABLE REELS

AUTOROLLER SERIES

p. 556

Automatic cable reels for industrial use



ROLLER 330 SERIES

p. 558

Cable reels for industrial use



ROLLER-BLOCK 330 SERIES

p. 560

Cable reels for industrial use with stand for distribution assembly



ROLLER 450 SERIES

p. 561

Cable reels for industrial use



ROLLER-BLOCK 450 SERIES

p. 562

Cable reels for industrial use with stand for distribution assembly



PROLUNGHE SERIES

p. 563

Extension cords for industrial use with rubber cable






AUTOROLLER Series

AUTOROLLER is a range of cable reels for surface mounting installation in shock-proof technopolymer and with automatic cable return after use.

Available with cable only without plug in lengths up to 14m, with 12m cable fitted with a domestic standard plug g or with a 16m cable equipped with a portable lamp.




Very important for safety, the thermal overload switch automatically cuts off the power supply in case of anomalous overheating.

The reactivation occurs exclusively by manual action with temperature below the intervention threshold.

 technical sheet **p. 860**

■ WITH H05VV-F PVC CABLE






	Power supply		Max load (W)		IP41	
	Cable Type	Metres				
2 poles	2x1	16	1100	1400	751.0210-D	1
	2x1,5	12	1500	2100	751.0215-D	1
	2x2,5	10	2000	2300	751.0225-D	1
3 poles (2P+E)	3x1	14	1000	1400	751.0310-D	1
	3x1,5	12	1500	2100	751.0315-D	1
	3x2,5	8	2300	2300	751.0325-D	1

H05VV-F PVC cable.

■ WITH DOMESTIC PLUG AND TRAILING SOCKET FOR DOMESTIC APPLICATION



	Power supply		Max load (W)		IP40	
	Cable Type	Metres				
	3x1,5	12	1500	2100	751.1315-D	1

H05VV-F PVC cable.

Plug: Italian standard 250V~ - 2P+E 16A.

Trailing socket: Italian standard 220V~ - 2P+E - 16A - Dual use.

■ WITH PLUG AND PORTABLE LAMP



Cable	Transformer	Max current wound ¹⁾	Max load wound	IP20	
16m 2x1mm ²	without transformer	4A	60W - 230V~	751.7210-D	1
16m 2x1mm ²	230/12-24V~	2,5A (fus.)	60W - 12-24V~	751.9210 ¹⁾	1

H05VV-F PVC cable.
 Plug: Italian standard 250 V~ - 2P - 10A.
 Lampholder E27.
 Max. bulb 60 W.
 SELV transformer 60VA 50 Hz .
 Protection on the transformer secondary: thermal overload switch.

¹⁾Without thermal overload switch.

■ WITH PLUG AND PORTABLE LAMP



Cable	Transformer	Max load wound	IP40	
14m 2x1mm ²	230/12-24V~	60W	756.9211	1

H07RN-F cable.
 Plug: IEC 309 standard 250 V~ - 2P+E 16A.
 Lampholder E27.
 Max. bulb 60 W.
 SELV Transformer 60 VA - 50 Hz .
 Protection on the transformer secondary: thermal overload switch.

■ PORTABLE HEAVY DUTY LAMP >> HALE SERIES



Description	Lampholder	Code	
Without cable and plug	E27	770.250	1

Black color.



ROLLER 330 Series

ROLLER 330 is a range of cable reels for industrial use mounted on a metal stand and with a cable length ranging from 20 to 40m.

Made of self-extinguishing and shock-resistant technopolymer, they are equipped with a domestic or industrial plug and industrial sockets up to 16A, also interlocked, or waterproof domestic socket outlets in the main international Standards.

Very important for safety, the thermal overload switch automatically cuts off the power supply in case of anomalous overheating.

The reactivation occurs exclusively by manual action with temperature below the intervention threshold.

technical sheet **p. 861**

■ WITH 4 DOMESTIC SOCKET OUTLETS AND THERMAL OVERLOAD SWITCH



Sockets				Power supply		Max load (W)			IP20	
				Plug 2P+E 16A	Cable Type Metres			Volt (V-)		
4				Pluristandard	3x2,5 30	2000	3600	230	746.3000-384	1
4				Pluristandard	3x1,5 40	1500	3600	230	746.4000-384	1
4				Pluristandard	3x2,5 30	2000	3600	230	746.3000-010	1
4				Pluristandard	3x1,5 40	1500	3600	230	746.4000-010	1
	4			French	3x2,5 30	2000	3600	230	746.3000-349	1
	4			French	3x1,5 40	1500	3600	230	746.4000-349	1
4				German	3x2,5 30	2000	3600	230	746.3000-011	1
4				German	3x1,5 40	1500	3600	230	746.4000-011	1
		4		British	3x2,5 30	2000	3600	230	746.3000-012	1
		4		British	3x1,5 40	1500	3600	230	746.4000-012	1

■ WITH 2 DOMESTIC SOCKET OUTLETS WITH THERMAL OVERLOAD SWITCH



Sockets		Power supply		Max load (W)			IP20	
		Plug 2P+E 16A	Cable Type Metres			Volt (V-)		
1		Italian	3x1,5 40	1500	3600	230	746.4005-898	1
	1	Pluristandard	3x1,5 30	1500	3600	230	746.3005-895	1
	1	Pluristandard	3x1,5 40	1500	3600	230	746.4005-895	1



Italian
standard P30
2P+E 16A



German
standard
2P+E 16A



Pluristandard
P40
2P+E 16A



French
standard
2P+E 16A



British
standard
2P+E 13A

WITH 2 INDUSTRIAL SOCKET OUTLETS, 1 DOMESTIC SOCKET OUTLET AND THERMAL OVERLOAD SWITCH


16A Sockets				Power supply		Max load (W)			IP20	
2P+E	3P+E	3P+N+E	2P+E	Plug 16A	Cable Type	Metres	⊙	⊚	Volt (V-)	
2			1	2P+E	3x2,5	30	1800	3600	230	746.3010-054 1
	2		1	3P+N+E	5x2,5	20	5000	11000	400	746.2010-101 1
		2	1	3P+N+E	5x2,5	20	5000	11000	400	746.2010-102 1
1	1		1	3P+N+E	5x2,5	20	5000	11000	400	746.2010-052 1

WITH 2 SOCKET OUTLET WITH THERMAL OVERLOAD SWITCH


16A Sockets				Power supply		Max load (W)			IP44	IP55	
2P+E	3P+E	3P+N+E	2P+E	Plug 16A	Cable Type	Metres	⊙	⊚	Volt (V-)		
2				2P+E	3x2,5	30	1800	3600	230	746.3010-077 1 746.3510-077 1	
	2			3P+E	4x2,5	30	4500	11000	400	746.3010-091 1 746.3510-091 1	
		2		3P+N+E	5x2,5	20	5000	11000	400	746.2010-093 1 746.2510-093 1	
1	1			3P+N+E	5x2,5	20	5000	11000	400	746.2010-075 1 746.2510-075 1	

WITH 1 INTERLOCKED SOCKET OUTLET AND THERMAL OVERLOAD SWITCH


16A Sockets			Power supply		Max load (W)			IP55	
2P+E	3P+E	3P+N+E	Plug 16A	Cable Type	Metres	⊙	⊚	Volt (V-)	
1			2P+E	3x2,5	30	1800	3600	230	746.3512-350 1
	1		3P+E	4x2,5	30	4500	11000	400	746.3512-351 1
		1	3P+N+E	5x2,5	20	5000	11000	400	746.2512-352 1


 Pluristandard
 P40
 2P+E 16A

INDUSTRIAL CABLE REELS

ROLLER-BLOCK 330 Series - ROLLER 450 Series



ROLLER-BLOCK 330 Series


ROLLER-BLOCK 330 is a range of cable reels for industrial use mounted on a metal stand and with a cable length of 20 or 30m.

Made of self-extinguishing and shock-resistant technopolymer, they are equipped with industrial plug and a 16A industrial socket.

The thermal overload switch automatically cuts off the power supply in case of anomalous overheating.








The reactivation occurs exclusively by manual action with temperature below the intervention threshold.

The particular design of the metal stand allows the fixing on the backside panel of the cable reel of a distribution assembly from BLOCK4 Series (not included).

 technical sheet p. 861

■ WITH 1 INDUSTRIAL SOCKET OUTLET AND THERMAL OVERLOAD SWITCH



16A Sockets			Power supply		Max load (W)			IP44		IP55		
			Plug 16A	Cable Type	Metres			Volt. [V-]				
1			2P+E	3x2,5	30	1800	3600	230	746.3025-350	1	746.3525-350	1
	1		3P+E	4x2,5	30	4500	11000	400	746.3025-351	1	746.3525-351	1
		1	3P+N+E	5x2,5	20	5000	11000	400	746.2025-352	1	746.2525-352	1

With standard for BLOCK4 Series distribution assemblies.



ROLLER 450 Series

ROLLER 450 is a range of cable reels for industrial use mounted on a metal stand and with a cable length of 30 or 50m.

Made of self-extinguishing and shock-resistant technopolymer, they are equipped with industrial plug and industrial sockets up to 32A.

Very important for safety, the thermal overload switch automatically cuts off the power supply in case of anomalous overheating.

The reactivation occurs exclusively by manual action with temperature below the intervention threshold.

technical sheet p. 861



INDUSTRIAL CABLE REELS
ROLLER-BLOCK 330 SERIES - ROLLER 450 SERIES

■ WITH 4 INDUSTRIAL SOCKET OUTLET AND THERMAL OVERLOAD SWITCH



16A Sockets			Power supply		Max load (W)			IP44	IP55			
2P+E	3P+E	3P+N+E	Plug 16A	Cable Type	Metres	⊙	⊙	Volt. (V-)				
4			2P+E	3x2,5	30	1800	3600	230	745.3005-012	1	745.3505-012	1
4			2P+E	3x2,5	50	1600	3600	230	745.5005-012	1	745.5505-012	1
	4		3P+E	4x2,5	30	4500	11000	400	745.3005-013	1	745.3505-013	1
	4		3P+E	4x2,5	50	4000	11000	400	745.5005-013	1	745.5505-013	1
		4	3P+N+E	5x2,5	30	5000	11000	400	745.3005-096	1	745.3505-096	1
		4	3P+N+E	5x2,5	50	4000	11000	400	745.5005-096	1	745.5505-096	1
2	2		3P+N+E	5x2,5	30	5000	11000	400	745.3005-003	1	745.3505-003	1
2	2		3P+N+E	5x2,5	50	4000	11000	400	745.5005-003	1	745.5505-003	1
2		2	3P+N+E	5x2,5	30	5000	11000	400	745.3005-006	1	745.3505-006	1
2		2	3P+N+E	5x2,5	50	4000	11000	400	745.5005-006	1	745.5505-006	1
3	1		3P+N+E	5x2,5	30	5000	11000	400	745.3005-008	1	745.3505-008	1
3	1		3P+N+E	5x2,5	50	4000	11000	400	745.5005-008	1	745.5505-008	1
3		1	3P+N+E	5x2,5	30	5000	11000	400	745.3005-094	1	745.3505-094	1
3		1	3P+N+E	5x2,5	50	4000	11000	400	745.5005-094	1	745.5505-094	1

On demand available with 32A sockets.



ROLLER-BLOCK 450 Series


ROLLER-BLOCK 450 is a range of cable reels for industrial use mounted on a metal stand with wheels to facilitate handling and with a cable length of 30 or 50m.

Made of self-extinguishing and shock-resistant technopolymer, they are equipped with industrial plug and industrial sockets up to 32A.

The thermal overload switch automatically cuts off the power supply in case of anomalous overheating.








The reactivation occurs exclusively by manual action with temperature below the intervention threshold.

The particular design of the metal stand allows the fixing on the backside panel of the cable reel of a distribution assembly from BLOCK4 Series (not included).

 technical sheet **p. 861**

■ WITH 1 INDUSTRIAL SOCKET OUTLET AND THERMAL OVERLOAD SWITCH



16A Sockets			Power supply		Max load (W)			IP44		IP55		
			Plug 16A	Cable Type	Metres			Volt. (V-)				
1			2P+E	3x2,5	30	1800	3600	230	749.3005-350	1	749.3505-350	1
1			2P+E	3x2,5	50	1600	3600	230	749.5005-350	1	749.5505-350	1
	1		3P+E	4x2,5	30	4500	11000	400	749.3005-351	1	749.3505-351	1
	1		3P+E	4x2,5	50	4000	11000	400	749.5005-351	1	749.5505-351	1
		1	3P+N+E	5x2,5	30	5000	11000	400	749.3005-352	1	749.3505-352	1
		1	3P+N+E	5x2,5	50	4000	11000	400	749.5005-352	1	749.5505-352	1
	1 ¹⁾		3P+E ¹⁾	4x4	30	7000	14000	400	749.3005-353	1	749.3505-353	1
		1 ¹⁾	3P+N+E ¹⁾	5x4	30	7000	14000	400	749.3005-354	1	749.3505-354	1

With standard for BLOCK4 Series distribution assemblies.

¹⁾32A.



PROLUNGHE Series

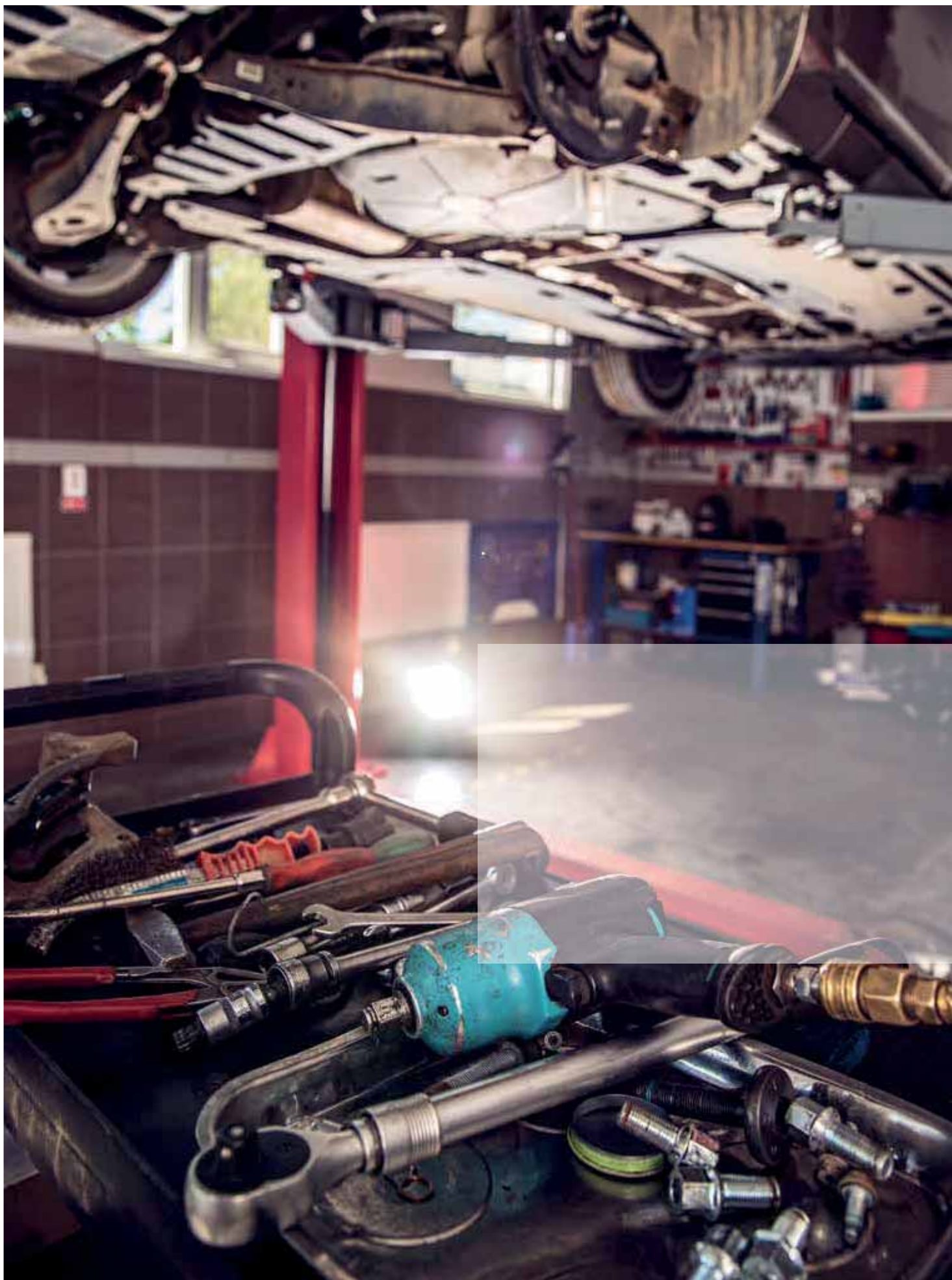
PROLUNGHE is a range of industrial extension cords equipped with industrial plugs and connectors and rubber cable of different sections and lengths.

Thanks to their high technical-mechanical properties and the degree of protection IP66/IP67 they are suitable for use in harsh environments.

EXTENSION CORDS



16A Sockets		Power supply			IP66/IP67	
		Plug 16A	Cable Type Metres			
1		2P+E	3x2,5	15	758.1633-15	1
1		2P+E	3x2,5	20	758.1633-20	1
1		2P+E	3x2,5	25	758.1633-25	1
1		2P+E	3x2,5	30	758.1633-30	1
	1	3P+E	4x2,5	15	758.1636-15	1
	1	3P+E	4x2,5	20	758.1636-20	1
	1	3P+E	4x2,5	25	758.1636-25	1
	1	3P+E	4x2,5	30	758.1636-30	1





**LIGHT
FITTINGS**





LIGHT FITTINGS

MIZAR SERIES

p. 568

Warning devices for fixed placement on construction site



HALE SERIES

p. 570

Portable lighting devices





MIZAR Series

MIZAR is a range of signal light fittings equipped with incandescent or fluorescent lamps, particularly suitable for construction site applications. Easy to be fixed on scaffoldings.

technical sheet p. 862

■ FOR INCANDESCENT LAMPS



Description	Type	Lamp holder	Colour	Code	
BULKHEAD LIGHT	RECTANGULAR	E27		780.2762	12

Thermoplastic diffuser. For continuous use, use the version with polycarbonate diffuser.
Electric bulb not included.

IP: IP44
Lamp power: 60W

■ FOR INCANDESCENT LAMPS



Description	Type	Lamp holder	Colour	Code	
BULKHEAD LIGHT	RECTANGULAR	E27		781.2761	12
	RECTANGULAR	E27		781.2760	12

Electric bulb not included.
Polycarbonate diffuser.

IP: IP44
Lamp power: 60W



Description	Type	Lamp holder	Colour	Code	
BULKHEAD LIGHT	RECTANGULAR	E27		786.2761	12
	RECTANGULAR	E27		786.2760	12

Electric bulb not included.
Polycarbonate diffuser.

IP: IP55
Lamp power: 60W

■ RED BULKHEAD LIGHTS FOR INDICATING WORKING AREAS - LED+BATTERY



Description	Type	Lamp holder	Colour	Code	
BULKHEAD LIGHT	RECTANGULAR	LED		786.0100	1/12

Power supply: four 1.5V "AA" batteries (not included).
 Switching on: automatic with twilight switch.
 Double operation: fixed light and flashing with switch that selects the desired function.

IP: IP55

■ RED BULKHEAD LIGHTS FOR INDICATING WORKING AREAS - LED



Description	Type	Lamp holder	Colour	Code	
BULKHEAD LIGHT	RECTANGULAR	LED		786.0220	1/12

With 220V-powered LED flasher.
 Direct turn-on (without twilight turn-on) and fixed light



IP: IP55

MIZAR Series


MIZAR Series light-fittings are fitted with a slot on the rear of the base for hooking onto a nail, screw or hook, or for fastening to poles, pipes, bars or scaffolding using one or two cable ties.






HALE Series

HALE is a range of portable and hanging lamps, with metal protection cage for IP20 versions and transparent and shockproof polycarbonate shell for waterproof versions.

 technical sheet p. 863

■ WITH PROTECTIVE GUARD AND ZINC-PLATED STEEL REFLECTOR



IP	Lamp power	Description	Type	Lamp holder	Cable length	Cable section	Code	
IP20	60W	PORTABLE LAMP	STANDARD LID	E27	without cable		770.200	24
	60W	PORTABLE LAMP	STANDARD LID	E27	5m	2x0,75mm ²	770.207	24
	60W	PORTABLE LAMP	STANDARD LID	E27	10m	2x0,75mm ²	770.208	18
	60W	PORTABLE LAMP	HEAVY DUTY	E27	without cable		770.250¹⁾	24

Protective guard that can be opened for light bulb replacement.

Lighting devices with protective guard and zinc-plated steel reflector:

Handgrip in insulating, non-hygroscopic thermoplastic material with tilting system that prevents the lamp, when placed on a flat surface, to directly irradiate said surface and thus prevent dangerous overheating.

Tapered cable gland.

Cable gland.

Adjustable hook.

Rocker switch and screw clamp for cable replacement.

For lamps up to 60W (incandescent).


Screw cable stay.

Cable H05VV-F (PVC).

¹⁾Heavy Duty products are especially suited to greivous working conditions and are also resistant to highly salty environments.

■ WITH IMPACT-RESISTANT PROTECTIVE DIFFUSER



IP	Lamp power	Description	Lamp holder	Cable length	Cable section	Code	
IP20	60W	PORTABLE LAMP	E27	5m	2x1mm ²	770.407 ¹⁾	1/6
	60W	PORTABLE LAMP	E27	10m	2x1mm ²	770.408 ¹⁾	1/6
	60W	PORTABLE LAMP	E27	without cable		770.400	1/6
IP65	60W	PORTABLE LAMP	E27	5m	2x1mm ²	770.405	1/6
	60W	PORTABLE LAMP	E27	5m	2x1mm ²	770.409	1/6
	60W	PORTABLE LAMP	E27	10m	2x1mm ²	770.406	1/6
	60W	PORTABLE LAMP	E27	10m	2x1mm ²	770.410	1/6

Cable gland.
 Adjustable hook.
 Rocker switch and screw clamp for cable replacement.
 For lamps up to 60W (incandescent).
 Screw cable stay.
 Protective shell in collision-proof technopolymer.
 Lighting devices with protective shell.
 Cable H05RN-F (RUBBER).
 Handgrip in non-hygroscopic technopolymer.
 Reflecting parabola in aluminium.

¹⁾The degree of protection IP20 is due to preserve of plug for domestic use, while the apparatus is IP65; for example, if plugged into a socket in the garage the lamp can be used in the garden.



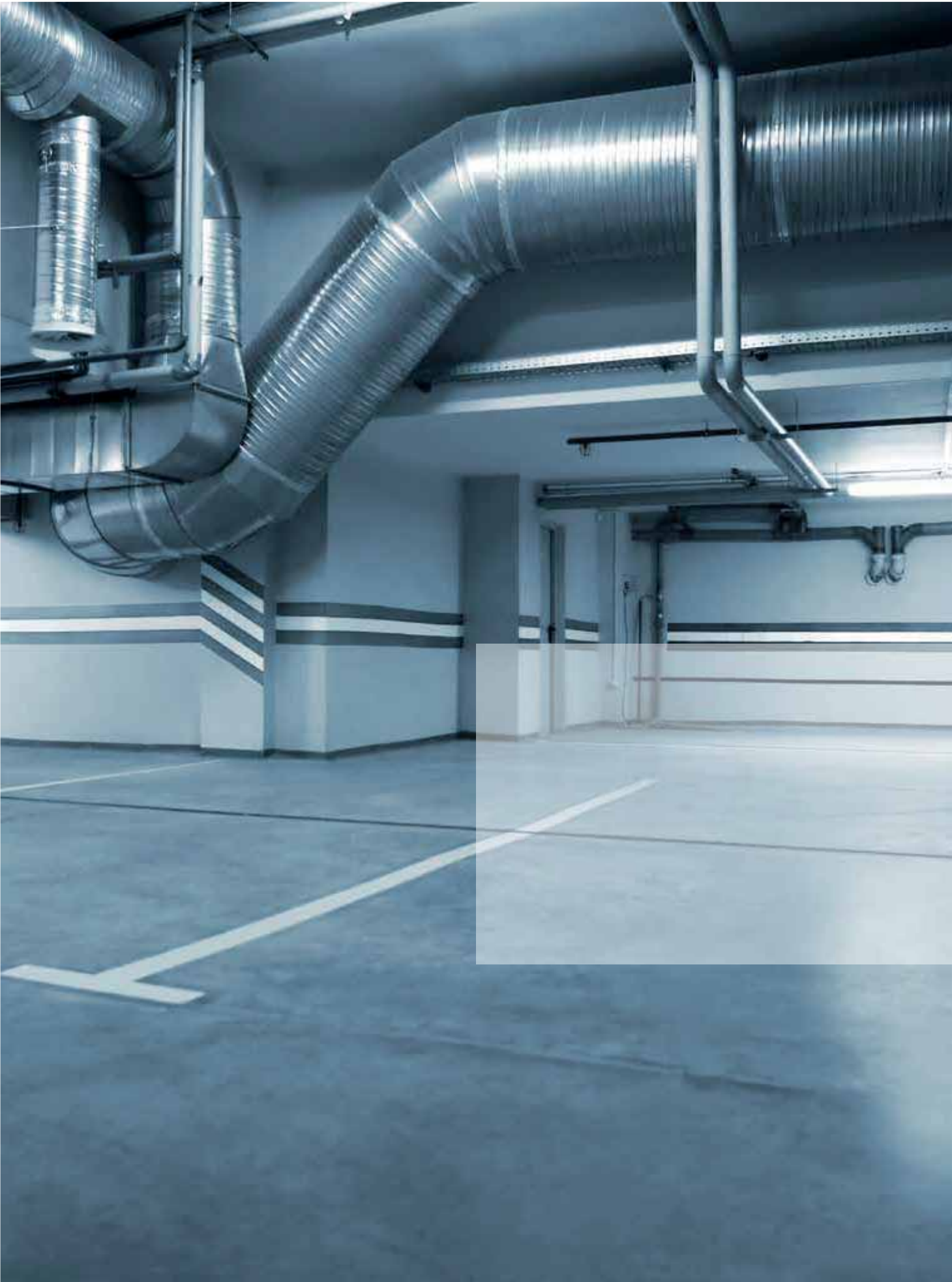


2. INSTALLATION



INDEX INSTALLATION

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WIRING





WIRING

UNION SERIES

p. 578

Cable glands and accessories for cabling



TIES SERIES

p. 584

Self-locking plastic ties



FIXO SERIES

p. 586

Fixing elements



CABLO SERIES

p. 587

Cable sheaths



FASTY SERIES

p. 588

Cable clips and insulated nails



RAILDIN SERIES

p. 590

Metallic DIN rails




WIRING



UNION Series

UNION is a complete range of cable glands, couplers, cable sleeves and screw cap in thermoplastic material, indispensable for the correct installation of enclosures, whether they are boards or junction boxes.




















The cable glands offer IP66 (Light) or IP68/IP69 (Heavy Duty) protection degrees and are also equipped with an anti-twist off and anti-rip feature.

 technical sheet p. 866

■ ANTI-TEAR CABLE GLANDS HEAVY DUTY >> WITH NUT, WITHOUT DIAPHRAM



IP: IP68/IP69

Thread	Type	Colour	Code	
M12X1,5	HEAVY DUTY		805.5112	50/600
M16X1,5	HEAVY DUTY		805.5116	50/600
M20X1,5	HEAVY DUTY		805.5120	25/500
M25X1,5	HEAVY DUTY		805.5125	25/400
M32X1,5	HEAVY DUTY		805.5132	25/350
M40X1,5	HEAVY DUTY		805.5140	10/140
M50X1,5	HEAVY DUTY		805.5150	10/100
M63X1,5	HEAVY DUTY		805.5163	10/100
PG7	HEAVY DUTY		805.3140	50/600
PG9	HEAVY DUTY		805.3141	50/600
PG11	HEAVY DUTY		805.3142	25/500
PG13,5	HEAVY DUTY		805.3143	25/500
PG16	HEAVY DUTY		805.3144	25/300
PG21	HEAVY DUTY		805.3145	25/400
PG29	HEAVY DUTY		805.3146	25/350
PG36	HEAVY DUTY		805.3147	10/140
PG42	HEAVY DUTY		805.3148	10/100
PG48	HEAVY DUTY		805.3149	10/100

Fixing type A.
IP68 at 1 Bar pressure.

■ ANTI-TEAR CABLE GLANDS LIGHT >> WITH NUT, WITHOUT DIAPHRAM



IP: IP66

Thread	Type	Colour	Code	
M12X1,5	LIGHT	■	805.5412	50/600
M16X1,5	LIGHT	■	805.5416	50/600
M20X1,5	LIGHT	■	805.5420	25/600
M25X1,5	LIGHT	■	805.5425	25/400
M32X1,5	LIGHT	■	805.5432	25/350
M40X1,5	LIGHT	■	805.5440	10/140
M50X1,5	LIGHT	■	805.5450	10/100
M63X1,5	LIGHT	■	805.5463	10/100
PG7	LIGHT	■	805.3340	50/600
PG9	LIGHT	■	805.3341	50/600
PG11	LIGHT	■	805.3342	25/500
PG13,5	LIGHT	■	805.3343	25/600
PG16	LIGHT	■	805.3344	25/300
PG21	LIGHT	■	805.3345	25/400
PG29	LIGHT	■	805.3346	25/350
PG36	LIGHT	■	805.3347	10/140
PG42	LIGHT	■	805.3348	10/100
PG48	LIGHT	■	805.3349	10/100

Cable glands are provided without gasket.

■ ANTI-TEAR CABLE GLANDS LIGHT >> WITHOUT NUT, WITHOUT DIAPHRAM



IP: IP66


Thread	Type	Colour	Code	
M12X1,5	LIGHT	■	805.5412.0	50/600
M16X1,5	LIGHT	■	805.5416.0	50/600
M20X1,5	LIGHT	■	805.5420.0	25/600
M25X1,5	LIGHT	■	805.5425.0	25/400
M32X1,5	LIGHT	■	805.5432.0	25/350
M40X1,5	LIGHT	■	805.5440.0	10/140
M50X1,5	LIGHT	■	805.5450.0	10/100
M63X1,5	LIGHT	■	805.5463.0	10/100
PG7	LIGHT	■	805.3340.0	50/600
PG9	LIGHT	■	805.3341.0	50/600
PG11	LIGHT	■	805.3342.0	25/500
PG13,5	LIGHT	■	805.3343.0	25/500
PG16	LIGHT	■	805.3344.0	25/300
PG21	LIGHT	■	805.3345.0	25/400
PG29	LIGHT	■	805.3346.0	25/350
PG36	LIGHT	■	805.3347.0	10/140
PG42	LIGHT	■	805.3348.0	10/100
PG48	LIGHT	■	805.3349.0	10/100

Cable glands are provided without gasket.

■ ANTI-TEAR CABLE GLANDS LIGHT >> WITH NUT AND DIAPHRAM



IP: IP66


Thread	Type	Colour	Code	
M12X1,5	LIGHT	■	805.5412.1	50/600
M16X1,5	LIGHT	■	805.5416.1	50/600
M20X1,5	LIGHT	■	805.5420.1	25/500
M25X1,5	LIGHT	■	805.5425.1	25/400
M32X1,5	LIGHT	■	805.5432.1	25/350
M40X1,5	LIGHT	■	805.5440.1	10/140
M50X1,5	LIGHT	■	805.5450.1	10/100
M63X1,5	LIGHT	■	805.5463.1	10/100
PG7	LIGHT	■	805.3340.1	50/600
PG9	LIGHT	■	805.3341.1	50/600
PG11	LIGHT	■	805.3342.1	25/500
PG13,5	LIGHT	■	805.3343.1	25/500
PG16	LIGHT	■	805.3344.1	25/300
PG21	LIGHT	■	805.3345.1	25/400
PG29	LIGHT	■	805.3346.1	25/350
PG36	LIGHT	■	805.3347.1	10/140
PG42	LIGHT	■	805.3348.1	10/100
PG48	LIGHT	■	805.3349.1	10/100

Cable glands are provided without gasket.

■ ANTI-TEAR CABLE GLANDS LIGHT >> WITHOUT NUT, WITH DIAPHRAM






















IP: IP66

Thread	Type	Colour	Code	
M12X1,5	LIGHT	■	805.5412.2	50/600
M16X1,5	LIGHT	■	805.5416.2	50/600
M20X1,5	LIGHT	■	805.5420.2	25/500
M25X1,5	LIGHT	■	805.5425.2	25/400
M32X1,5	LIGHT	■	805.5432.2	25/350
M40X1,5	LIGHT	■	805.5440.2	10/140
M50X1,5	LIGHT	■	805.5450.2	10/100
M63X1,5	LIGHT	■	805.5463.2	10/100
PG7	LIGHT	■	805.3340.2	50/600
PG9	LIGHT	■	805.3341.2	50/600
PG11	LIGHT	■	805.3342.2	25/500
PG13,5	LIGHT	■	805.3343.2	25/500
PG16	LIGHT	■	805.3344.2	25/300
PG21	LIGHT	■	805.3345.2	25/400
PG29	LIGHT	■	805.3346.2	25/350
PG36	LIGHT	■	805.3347.2	10/140
PG42	LIGHT	■	805.3348.2	10/100
PG48	LIGHT	■	805.3349.2	10/100

Cable glands are provided without gasket.




















■ NUTS LIGHT



Thread	Type	Colour	Code	
M12X1,5	LIGHT		805.5612	100/1.000
M16X1,5	LIGHT		805.5616	100/1.000
M20X1,5	LIGHT		805.5620	100/1.000
M25X1,5	LIGHT		805.5625	100/1.000
M32X1,5	LIGHT		805.5632	50/500
M40X1,5	LIGHT		805.5640	50/500
M50X1,5	LIGHT		805.5650	50/500
M63X1,5	LIGHT		805.5663	50/500
PG7	LIGHT		805.3360	100/1.000
PG9	LIGHT		805.3361	100/1.000
PG11	LIGHT		805.3362	100/1.000
PG13,5	LIGHT		805.3363	100/1.000
PG16	LIGHT		805.3364	100/1.000
PG21	LIGHT		805.3365	100/1.000
PG29	LIGHT		805.3366	50/500
PG36	LIGHT		805.3367	50/500
PG42	LIGHT		805.3368	50/500
PG48	LIGHT		805.3369	50/500

■ SEALS - THERMOPLASTIC



Thread	Type	Colour	Code	
M12X1,5	LIGHT		805.5912	100/1.000
M16X1,5	LIGHT		805.5916	100/1.000
M20X1,5	LIGHT		805.5920	100/1.000
M25X1,5	LIGHT		805.5925	100/1.000
M32X1,5	LIGHT		805.5932	100/1.000
M40X1,5	LIGHT		805.5940	50/500
M50X1,5	LIGHT		805.5950	50/500
M63X1,5	LIGHT		805.5963	50/500
PG7	LIGHT		805.3390	100/1.000
PG9	LIGHT		805.3391	100/1.000
PG11	LIGHT		805.3392	100/1.000
PG13,5	LIGHT		805.3393	100/1.000
PG16	LIGHT		805.3394	100/1.000
PG21	LIGHT		805.3395	100/1.000
PG29	LIGHT		805.3396	50/500
PG36	LIGHT		805.3397	50/500
PG42	LIGHT		805.3398	50/500
PG48	LIGHT		805.3399	50/500



■ SCREW CAPS



Thread	Type	Colour	Code	
M12X1,5	LIGHT	■	805.5812	100/1.000
M16X1,5	LIGHT	■	805.5816	100/1.000
M20X1,5	LIGHT	■	805.5820	100/1.000
M25X1,5	LIGHT	■	805.5825	100/1.000
M32X1,5	LIGHT	■	805.5832	50/500
M40X1,5	LIGHT	■	805.5840	25/250
M50X1,5	LIGHT	■	805.5850	25/250
M63X1,5	LIGHT	■	805.5863	25/250
PG7	LIGHT	■	805.3380	100/1.000
PG9	LIGHT	■	805.3381	100/1.000
PG11	LIGHT	■	805.3382	100/1.000
PG13,5	LIGHT	■	805.3383	100/1.000
PG16	LIGHT	■	805.3384	100/1.000
PG21	LIGHT	■	805.3385	100/1.000
PG29	LIGHT	■	805.3386	50/500
PG36	LIGHT	■	805.3387	25/250
PG42	LIGHT	■	805.3388	25/250
PG48	LIGHT	■	805.3389	25/250

Without nut.

■ COUPLERS - IP66



Thread	Type	Colour	Code	
M25X1,5	LIGHT	■	805.5225	10/50
M40X1,5	LIGHT	■	805.5240	5/25
PG16	LIGHT	■	805.3334 ¹⁾	10/50
PG21	LIGHT	■	805.3335	10/50
PG29	LIGHT	■	805.3336	10/50
PG36	LIGHT	■	805.3337	5/25

¹⁾ Only for surface mounting enclosure.

IP: IP66

■ CABLE SLEEVES >> CABLE SLEEVES (5 CIRCLES) - IP55 - RUBBER






Thread	Colour	Code	
PG16	■	805.3304	100/1.000
PG21	■	805.3305	100/1.000
PG29	■	805.3306	50/500
PG36	■	805.3307	25/200

SCABOX - CUBIK - CUBOX Series type.

IP: IP55

■ CABLE SLEEVES >> CABLE SLEEVES (INSULATING PERFORATION) - IP55 - RUBBER







Thread	Colour	Code	
PG16		805.3324	100/1.000
PG21		805.3325	100/1.000

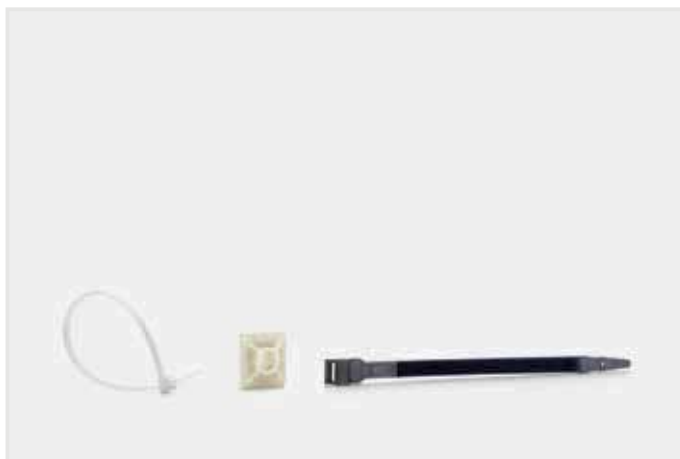
IP: IP55

■ CABLE SLEEVES >> THREADED CABLE SLEEVE




Description	IP	Thread	Colour	Code	
THREADED CABLE SLEEVE	IP55	M20X1,5		805.5020	100/1.000
	IP55	M25X1,5		805.5025	100/1.000
	IP55	M32X1,5		805.5032	100/1.000







TIES Series

TIES is a series of self-locking cable ties available in a wide range of sizes. Made of self-extinguishing technopolymer for indoor and RILSAN® material for outdoor installation, they allow to tighten the wiring into the panels and the pipes in the plants.

 technical sheet p. 864

■ FOR INDOOR WIRING



Dimensions	Clamping diameter	Traction resistance	WHITE		BLACK	
2,5x135mm	32mm	8,16Kg	839.42120	12.000	839.52120	12.000
2,5x98mm	21mm	8,16Kg	839.42100	15.000	839.52100	15.000
2,6x160mm	40mm	8,16Kg	839.42160	10.000	839.52160	10.000
2,6x200mm	52mm	8,16Kg	839.42200	8.000	839.52200	8.000
3,5x140mm	32mm	18,36Kg	839.43140	7.000	839.53140	7.000
3,5x200mm	50mm	18,36Kg	839.43200	7.000	839.53200	7.000
3,5x290mm	80mm	18,36Kg	839.43300	4.500	839.53300	4.500
3,5x370mm	103mm	18,36Kg	839.43370	4.000	839.53370	4.000
4,5x200mm	50mm	22,44Kg	839.44200	4.000	839.54200	4.000
4,5x290mm	78mm	22,44Kg	839.44300	3.500	839.54300	3.500
4,5x360mm	100mm	22,44Kg	839.44370	3.000	839.54370	3.000
4,5x430mm	115mm	22,44Kg	839.44430	5.000	839.54430	5.000
4,8x178mm	45mm	22,44Kg	839.44190	5.000	839.54190	5.000
4,8x250mm	68mm	22,44Kg	839.44250	4.500	839.54250	4.500
7,5x365mm	100mm	55,08Kg	839.47370	1.500	839.57370	1.500
7,8x180mm	45mm	55,08Kg	839.47200	2.500	839.57200	2.500
7,8x300mm	80mm	55,08Kg	839.47290	1.500	839.57290	1.500
9x780mm	233mm	71,4Kg	839.47780	1.000	839.57780	1.000


Good resistance to external agents: oil, grease, oil derivatives, alcohol, saline mist and chlorates.

Colour black: increased resistance to UV rays (not suited for prolonged exposure).

Do not withstand UV rays.

■ FOR OUTDOOR WIRING



Dimensions	Clamping diameter	Traction resistance	BLACK	
6x115mm	5÷25mm	28Kg	839.39/6115	7.000
6x180mm	9÷45mm	28Kg	839.39/6175	4.800
9x132mm	8÷27mm	40Kg	839.39/9120	4.800
9x180mm	10÷38mm	40Kg	839.39/9180	4.800
9x260mm	25÷63mm	57Kg	839.39/9260	2.000
9x360mm	25÷93mm	57Kg	839.39/9350	1.500


Rounded edges to avoid cutting into cable insulation.

Good resistance to external agents: oil, grease, oil derivatives and saline mist.

Withstands UV rays.

■ PLIER FOR CABLE TIE CLAMPING-TRIMMING




Description	Colour	Code	
PLIER		839.39/104	1/20

Made of red stove-enamelled steel.


■ FASTENING ACCESSORIES FOR CABLE TIES



Description	Dimensions	Code	
SELF-ADESIVE CABLE TIE BASE	28,5x28,5mm	839.39/100	6.000

Max. cable tie width: 4.8 mm.




Description	Dimensions	Code	
WALL ANCHOR BASE	7÷8mm	839.39/101	5.000



Description	Dimensions	Code	
PANEL CLIP-ON BASE	6,4mm max	839.39/102	17.000

Max. cable tie width: 4.8 mm.

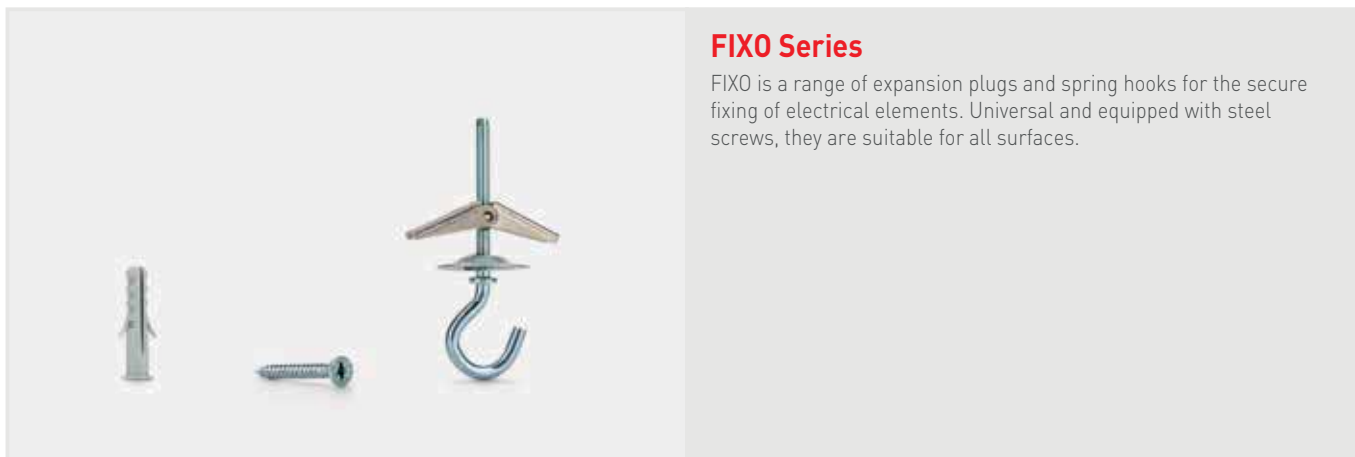


Description	Dimensions	Code	
CABLE TIE BASE ANTI-VIBRATION	15,5x22,5mm	839.39/103	5.000

Max. cable tie width: 4.8 mm.



WIRING
TIES SERIES



FIXO Series

FIXO is a range of expansion plugs and spring hooks for the secure fixing of electrical elements. Universal and equipped with steel screws, they are suitable for all surfaces.

■ SPRUNG CEILING HOOKS



Description	Type	Code	
SPRUNG CEILING HOOK	THREADED BAR	845.46/2	500
	EYELET	845.46	500
	SCREW	845.46/1	1.000

To install, fold down the tabs and push them into a 12-mm hole in the ceiling. Once through, the tabs open up and are anchored in the ceiling.
Made of metal.

■ FIXING PLUGS WITHOUT SCREWS



Description	Dimensions	Code	
FIXING PLUG	ø10mm	846.13-10	2.000
	ø4mm	846.13-4	2.000
	ø5mm	846.13-5	2.000
	ø6mm	846.13-6	2.000
	ø7mm	846.13-7	2.000
	ø8mm	846.13-8	2.000

Suitable for all type of screws (for wood, metal, concrete etc.).
Stainless steel screws.

■ FIXING PLUGS WITH SCREWS



Description	Dimensions	Code	
FIXING PLUG WITH SCREW	ø10mm	846.14-10	2.000
	ø4mm	846.14-4	2.000
	ø5mm	846.14-5	2.000
	ø6mm	846.14-6	2.000
	ø7mm	846.14-7	2.000
	ø8mm	846.14-8	2.000

Suitable for all type of screws (for wood, metal, concrete etc.).
Stainless steel screws.



CABLO Series

CABLO is a range of sheaths and spiral sheaths for cable made of insulating plastic material, soft, flexible and resistant. Available in a wide range of diameters in 1m length cuts.

■ CABLE SHEATHS (1 METER)



Diameter	Colour	Code	
ø2mm	■	865.002	200/1.200
ø3mm	■	865.003	200/1.000
ø4mm	■	865.004	200/1.000
ø5mm	■	865.005	200/1.000
ø6mm	□	865.106	200/800
ø6mm	■	865.006	200/600
ø7mm	■	865.007	200/600
ø8mm	■	865.008	200/400
ø9mm	■	865.009	200/600
ø10mm	■	865.010	200/400
ø12mm	■	865.012	100/200
ø14mm	■	865.014	100/200
ø16mm	■	865.016	100/200
ø18mm	■	865.018	100/200
ø20mm	■	865.020	50/150
ø22mm	■	865.022	50/150
ø24mm	■	865.024	50/100
ø26mm	■	865.026	50/100
ø28mm	■	865.028	50/100
ø30mm	■	865.030	50/100
ø36mm	■	865.036	25/50
ø40mm	■	865.040	25/50

Thickness from 0.4 to 1mm.

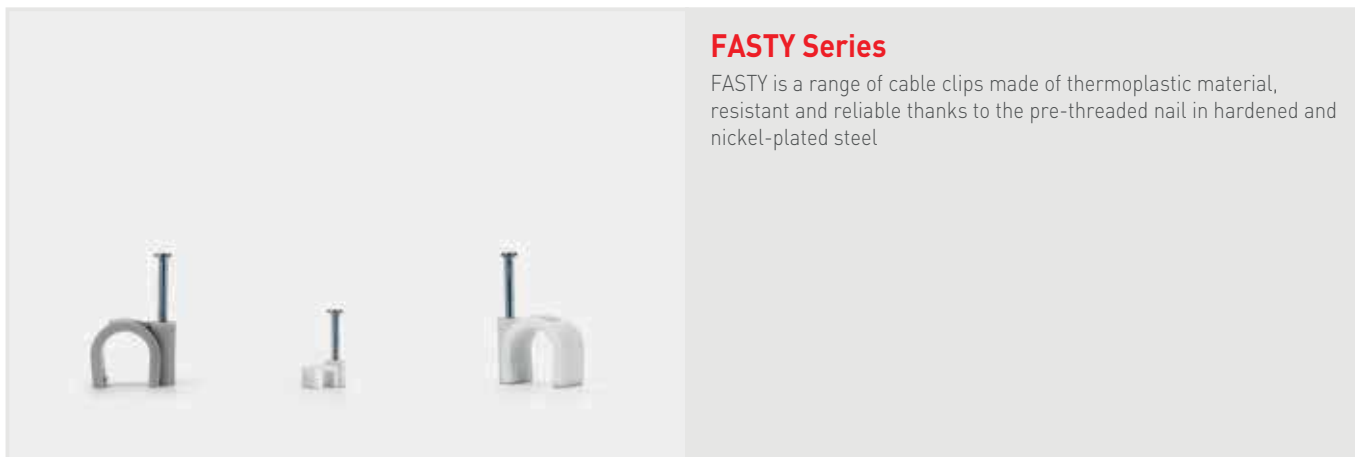
Made of self-extinguishing, soft and flexible insulated thermoplastic material.

■ SPIRAL CABLE BINDING (1 METER)




Diameter	Colour	Code	
ø3-5mm	NATURAL	865.603	25/700
ø4-6mm	NATURAL	865.604	25/600
ø6-8mm	NATURAL	865.606	25/500
ø8-10mm	NATURAL	865.608	25/400
ø10-12mm	NATURAL	865.610	25/200
ø12-14mm	NATURAL	865.612	20/160
ø14-16mm	NATURAL	865.614	20/120

Made of self-extinguishing, soft and flexible insulated thermoplastic material.

**FASTY Series**

FASTY is a range of cable clips made of thermoplastic material, resistant and reliable thanks to the pre-threaded nail in hardened and nickel-plated steel

■ ROUND CLIPS


Colour	Diameter	CLIPS	
WHITE	ø3-4mm	830.30/3-4	5.000
	ø5mm	830.30/5	5.000
	ø6mm	830.30/6	5.000
	ø7mm	830.30/7	5.000
	ø8mm	830.30/8	5.000
	ø10mm	830.30/10	5.000
	ø12mm	830.30/12	3.000
GREY	ø3-4mm	830.30/3-4G	5.000
	ø5mm	830.30/5G	5.000
	ø6mm	830.30/6G	5.000
	ø7mm	830.30/7G	5.000
	ø8mm	830.30/8G	5.000
	ø10mm	830.30/10G	5.000
	ø12mm	830.30/12G	3.000
	ø14mm	830.30/14G	3.000
	ø16mm	830.30/16G	5.000
	ø19mm	830.30/19G	3.000
	ø22mm	830.30/22G	1.000
	ø26mm	830.30/26G	1.000
	ø28mm	830.30/28G	1.000
ø32mm	830.30/32G	1.000	

Pre-inserted pins.
Pins made of hardened and nickel-plated steel.
Clips made of thermoplastic material.

■ FLAT CLIPS



Colour	Dimensions	CLIPS	
WHITE	3,5mm	830.30/P3	5.000
	5mm	830.30/P5	3.000
	6mm	830.30/P6	5.000
	8mm	830.30/P8	3.000
	11mm	830.30/P11	1.000
	13mm	830.30/P13	1.000
GREY	3,5mm	830.30/P3G	5.000
	5mm	830.30/P5G	3.000
	6mm	830.30/P6G	5.000
	8mm	830.30/P8G	3.000
	11mm	830.30/P11G	1.000
	13mm	830.30/P13G	1.000

Pre-inserted pins.
Pins made of hardened and nickel-plated steel.
Clips made of thermoplastic material.

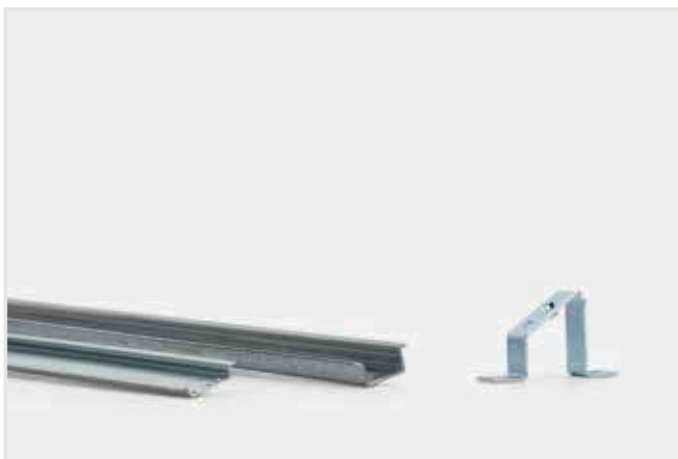
■ INSULATED PINS



Description	Colour	Code	
INSULATED PIN		818.2	100/1.000

Pre-inserted pins.
Pins made of hardened and nickel-plated steel.
Clips made of thermoplastic material.






RAILDIN Series

RAILDIN is a range of metal DIN rails in cold laminated galvanized steel with slots or drilling point marks. Available in different heights and with G shaped or OMEGA shaped profile.

■ G TYPE - 32X15MM (1 METER)



Description	Dimensions	Notes	Code	
DIN RAIL	32x15x1,5mm	Plain DIN rail	865.210 ¹⁾	20
	32x15x1,5mm	Slotted DIN rail (18x6,3 - 25)	865.211 ²⁾	20


DIN metallic rails.
Steel rail or mounting modular electrical equipment.
Steel, cold lamination.
Thickness of zinc coating: 8 micron.
Electrolytic zinc coating, followed by passivation and yellow colouring.
Standard bar length: 2m.

¹⁾ Non drilled rail with drilling points provided.

²⁾ Drilled rail with slots.

■ OMEGA TYPE - 35X15MM (1 METER)



Description	Dimensions	Notes	Code	
DIN RAIL	35x15x1,5mm	Plain DIN rail	865.230 ¹⁾	20
	35x15x1,5mm	Slotted DIN rail (18x6,3 - 25)	865.231 ²⁾	20


DIN metallic rails.
Steel rail or mounting modular electrical equipment.
Steel, cold lamination.
Thickness of zinc coating: 8 micron.
Electrolytic zinc coating, followed by passivation and yellow colouring.
Standard bar length: 2m.

¹⁾ Non drilled rail with drilling points provided.

²⁾ Drilled rail with slots.

■ OMEGA TYPE - 35X7.5MM (1 METER)



Description	Dimensions	Notes	Code	
DIN RAIL	35x7,5x1mm	Plain DIN rail	865.220 ¹⁾	40
	35x7,5x1mm	Slotted DIN rail (18x6,3 - 25)	865.221 ²⁾	40


DIN metallic rails.
Steel rail or mounting modular electrical equipment.
Steel, cold lamination.
Thickness of zinc coating: 8 micron.
Electrolytic zinc coating, followed by passivation and yellow colouring.
Standard bar length: 2m.

¹⁾ Non drilled rail with drilling points provided.

²⁾ Drilled rail with slots.

■ OMEGA TYPE - 15X5.5MM (1 METER)



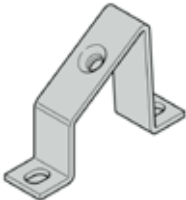
Description	Dimensions	Notes	Code	
DIN RAIL	15x5,5x1mm	Plain DIN rail	865.240 ¹⁾	100
	15x5,5x1mm	Slotted DIN rail (18x6,3 - 25)	865.241 ²⁾	100

DIN metallic rails.
 Steel rail or mounting modular electrical equipment.
 Steel, cold lamination.
 Thickness of zinc coating: 8 micron.
 Electrolytic zinc coating, followed by passivation and yellow colouring.
 Standard bar length: 2m.

¹⁾ Non drilled rail with drilling points provided.

²⁾ Drilled rail with slots.

■ SUPPORT BRACKET



Description	Dimensions	Notes	Code	
SUPPORT BRACKET	60x48x1,8mm	With M6 hole	865.200	50/500

Electrolytic zinc coating, followed by passivation and yellow colouring.







TERMINALS



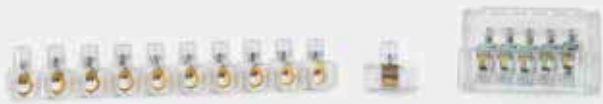


TERMINALS

CONNECTO SERIES - TERMINALS

p. 596

Terminals for electrical connections



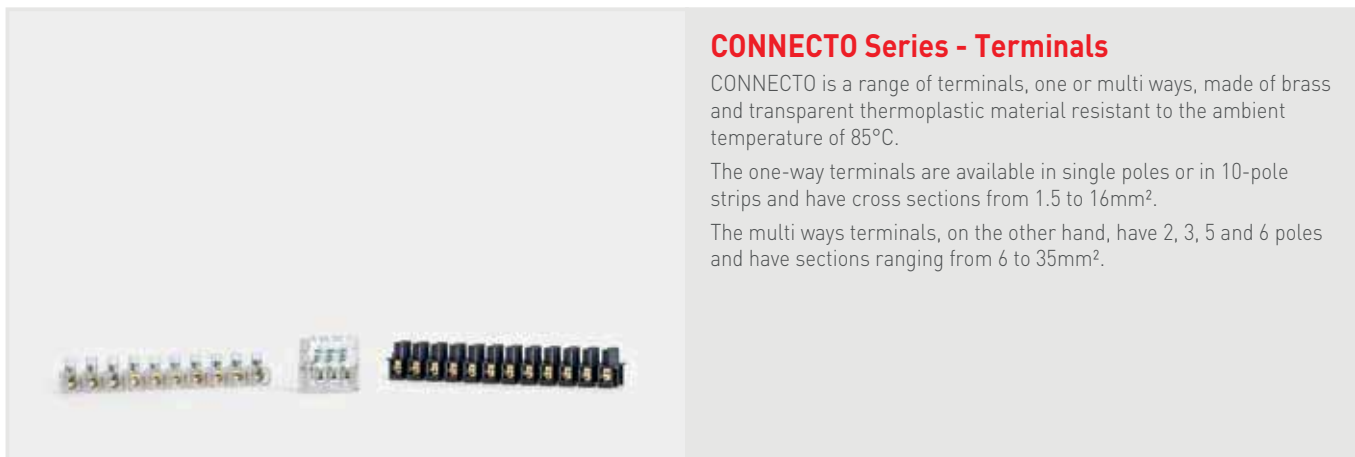
CONNECTO SERIES - TERMINAL BLOCKS

p. 599

Terminal blocks for electrical connections



TERMINALS



CONNECTO Series - Terminals

CONNECTO is a range of terminals, one or multi ways, made of brass and transparent thermoplastic material resistant to the ambient temperature of 85°C.

The one-way terminals are available in single poles or in 10-pole strips and have cross sections from 1.5 to 16mm².

The multi ways terminals, on the other hand, have 2, 3, 5 and 6 poles and have sections ranging from 6 to 35mm².

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INSULATED WIRE CONNECTORS - T85



Connecting capacity	Current	Volt	Colour	Code	
1,5mm ²	17,5A	450	<input type="checkbox"/>	810.372/TR	600/6.000
2,5mm ²	24A	450	<input type="checkbox"/>	810.374/TR	1.000/4.000
4mm ²	32A	450	<input type="checkbox"/>	810.375/TR	1.000
6mm ²	41A	450	<input type="checkbox"/>	810.376/TR	1.000
10mm ²	57A	450	<input type="checkbox"/>	810.378/TR	1.000
16mm ²	76A	450	<input type="checkbox"/>	810.379/TR	500
25mm ²	101A	450	<input type="checkbox"/>	810.425/TR	100
35mm ²	125A	450	<input type="checkbox"/>	810.435/TR	250

INSULATED WIRE CONNECTORS - 10 POLES STRIPS (1 STRIP)



Connecting capacity	Dimensions	Pitch	Colour	Code	
1,5mm ²	96mm	9,8mm	<input type="checkbox"/>	812.372	10/200
2,5mm ²	120mm	12,2mm	<input type="checkbox"/>	812.374	10/400
4mm ²	120mm	12,2mm	<input type="checkbox"/>	812.375	10/400
6mm ²	145mm	14,7mm	<input type="checkbox"/>	812.376	10/25/200
10mm ²	168mm	17mm	<input type="checkbox"/>	812.378	10/150
16mm ²	211mm	21,3mm	<input type="checkbox"/>	812.379	10/60

MULTI-WAY WIRE CONNECTORS - T85 >> 2 WAY



Connecting capacity	Volt	Dimensions	Colour	Code	
2x6mm ²	450	23x31x24mm	<input type="checkbox"/>	817.0602	25/650
2x16mm ²	450	33x28x24mm	<input type="checkbox"/>	817.1602	10/270
2x35mm ²	450	35x46x30mm	<input type="checkbox"/>	817.3502	10/160

Protection degree: IP20.

Cage clamp connectors.

Rated voltage 450V-.

Captive screws.

Self-extinguishing material in compliance with IEC 60695-2-1 standard 850°C.

Engineering plastic casing.

Max. service temperature - continuous duty: 85°C.

■ MULTI-WAY WIRE CONNECTORS - T85 >> 3 WAY



Connecting capacity	Volt	Dimensions	Colour	Code	
3x6mm ²	450	31x31x24mm		817.0603	25/400
3x16mm ²	450	45x28x24mm		817.1603	10/270
3x35mm ²	450	49x46x30mm		817.3503	10/260

Protection degree: IP20.
 Cage clamp connectors.
 Rated voltage 450V-.
 Captive screws.
 Self-extinguishing material in compliance with IEC 60695-2-1 standard 850°C.
 Engineering plastic casing.
 Max. service temperature - continuous duty: 85°C.

■ MULTI-WAY WIRE CONNECTORS - T85 >> 5 WAY



Connecting capacity	Volt	Dimensions	Colour	Code	
5x6mm ²	450	49x31x24mm		817.0605	10/270
5x16mm ²	450	71x38x24mm		817.1605	10/260

Protection degree: IP20.
 Cage clamp connectors.
 Rated voltage 450V-.
 Captive screws.
 Self-extinguishing material in compliance with IEC 60695-2-1 standard 850°C.
 Engineering plastic casing.
 Max. service temperature - continuous duty: 85°C.

■ MULTI-WAY WIRE CONNECTORS - T85 >> 6 WAY





Connecting capacity	Volt	Dimensions	Colour	Code	
4x6mm ²	450	66x38x24mm		817.1606C	10/260
2x16mm ²	450	66x38x24mm		817.1606C	10/260
4x16mm ²	450	83x46x30mm		817.3506C	10/120
2x35mm ²	450	83x46x30mm		817.3506C	10/120

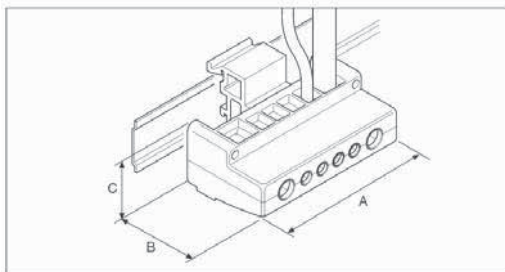
Protection degree: IP20.
 Cage clamp connectors.
 Rated voltage 450V-.
 Captive screws.
 Self-extinguishing material in compliance with IEC 60695-2-1 standard 850°C.
 Engineering plastic casing.
 Max. service temperature - continuous duty: 85°C.



■ MULTI-WAY WIRE CONNECTORS - T85 >> ACCESSORIES



Description	Colour	Code	
DIN RAIL BRACKET		817.001	10/500



DIN rail bracket

The bracket for the DIN rail is the same for all versions of the multi-way wire connectors and is designed for spring-fixing onto the rail "OMEGA" and "G". It is detached from the rail by using a screw-driver.

CONNECTO Series - Terminal blocks

CONNECTO is a range of terminal blocks made of brass and thermoplastic material resistant to high ambient temperatures.

The terminal blocks have sections from 2.5 to 35mm² and are divided into T85 and T140, based on their heat resistance.

The T85 resist continuously the maximum ambient temperature of 85°C, while the T140 resist continuously the maximum ambient temperature of 140°C.



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■ T85 TERMINAL STRIPS



Connecting capacity	Volt	Dimensions	Pitch	Colour	Code	
2,5mm ²	250	95,5x15,5x16mm	8mm		815.2361B	50/800
	250	95,5x15,5x16mm	8mm		815.2361	50/800
4mm ²	450	120x16,6x17,4mm	10mm		815.2362B	50/400
	450	120x16,6x17,4mm	10mm		815.2362	50/400
6mm ²	450	120x16,6x17,4mm	10mm		815.23625B	50/400
	450	120x16,6x17,4mm	10mm		815.23625	50/400
10mm ²	450	138x23,5x20,5mm	11,5mm		815.2363B	25/300
	450	138x23,5x20,5mm	11,5mm		815.2363	25/300
16mm ²	450	174x30x24mm	14,5mm		815.2364B	25/150
	450	174x30x24mm	14,5mm		815.2364	25/150
25mm ²	750	210x38x36mm	17,5mm		815.2365B	15/60
	750	210x38x36mm	17,5mm		815.2365	15/60
35mm ²	750	264x46x39mm	22mm		815.2366B	10/40
	750	264x46x39mm	22mm		815.2366	10/40

Self-extinguishing material in compliance with IEC 60695-2-1 standard 850°C.

Engineering plastic casing.

Max. service temperature - continuous duty: 85°C.

Nickel-plated brass terminal.

12 poles.

Captive screws of zinc-plated steel.

■ T140 TERMINAL STRIPS



Connecting capacity	Volt	Dimensions	Pitch	Colour	Code	
2,5mm ²	250	95,5x15,5x16mm	8mm	NATURAL	815.1361	50/800
4mm ²	450	120x16,6x17,4mm	10mm	NATURAL	815.1362	50/400
6mm ²	450	120x16,6x17,4mm	10mm	NATURAL	815.13625	50/400
10mm ²	450	138x23,5x20,5mm	11,5mm	NATURAL	815.1363	25/300
16mm ²	450	174x30x24mm	14,5mm	NATURAL	815.1364	25/150
25mm ²	750	210x38x36mm	17,5mm	NATURAL	815.1365	15/60
35mm ²	750	264x46x39mm	22mm	NATURAL	815.1366	10/40

Self-extinguishing material in compliance with IEC 60695-2-1 standard 850°C.

Engineering plastic casing.

Nickel-plated brass terminal.

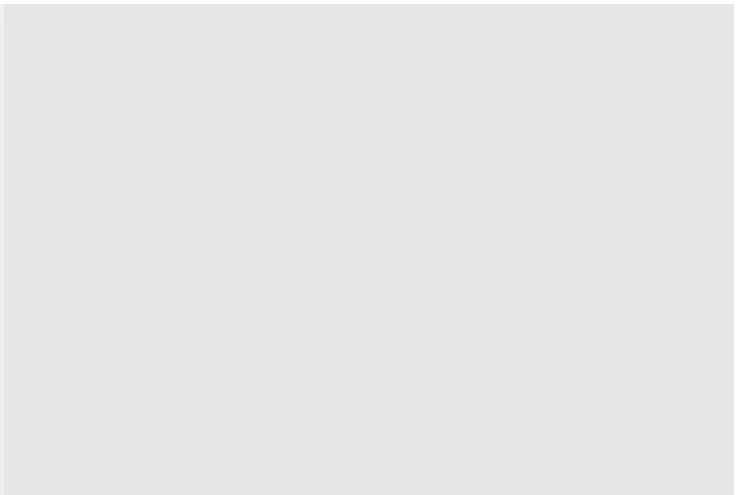
12 poles.

Captive screws of zinc-plated steel.

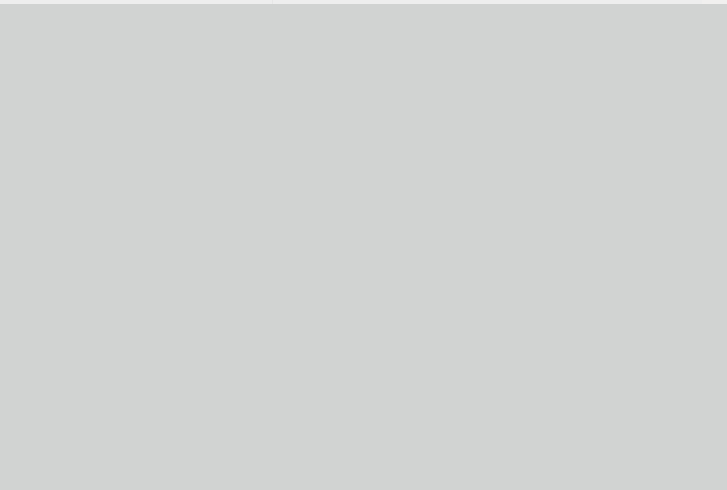
Max. service temperature - continuous duty: 140°C.







CONDUITS ACCESSORIES





CONDUITS ACCESSORIES

FIXER SERIES

Fasteners for cable conduits

p. 604



TUBE SERIES

Connecting elements for cable conduits

p. 607

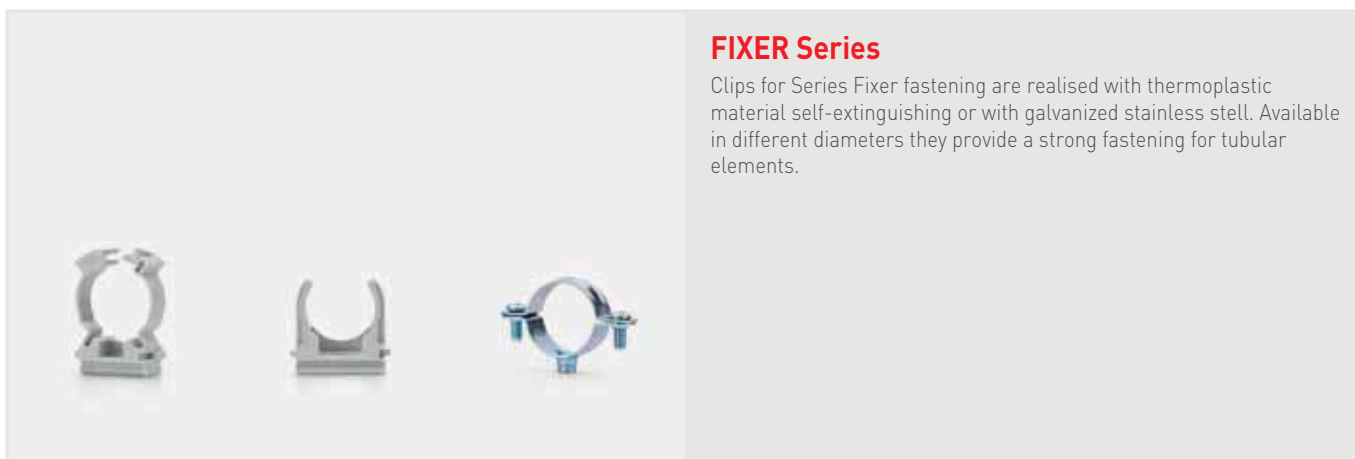


SMART SERIES

Connecting elements with coinjected gasket for cable conduits

p. 611





FIXER Series

Clips for Series Fixer fastening are realised with thermoplastic material self-extinguishing or with galvanized stainless steel. Available in different diameters they provide a strong fastening for tubular elements.

technical sheet p. 870

■ MADE OF SELF-EXTINGUISHING THERMOPLASTIC MATERIAL >> SNAP CLIP



Description	Diameter	Colour	Code	
SNAP CLIPS	ø16mm		860.1316/G	100/1.000
	ø20mm		860.1320/G	100/1.000
	ø25mm		860.1325/G	100/800
	ø32mm		860.1332/G	100/800
	ø40mm		860.1340/G	50/400
	ø50mm		860.1350/G	25/250

■ MADE OF SELF-EXTINGUISHING THERMOPLASTIC MATERIAL >> COLLAR CLIP



Description	Diameter	Colour	Code	
COLLAR CLIPS	ø16mm		860.1516	100/1.000
	ø20mm		860.1520	100/1.000
	ø25mm		860.1525	100/800
	ø32mm		860.1532	50/500
	ø40mm		860.1540	50/400
	ø50mm		860.1550	25/250

■ MADE OF SELF-EXTINGUISHING THERMOPLASTIC MATERIAL >> SNAP CLIP WITH PLUG AND SCREW



Description	Diameter	Colour	Code	
SNAP CLIPS W/PLUG & SCREW	ø16mm		860.2016	100/1.000
	ø20mm		860.2020	100/1.000
	ø25mm		860.2025	100/800
	ø32mm		860.2032	50/400

Screws made of zinc-plated steel.

■ MADE OF SELF-EXTINGUISHING THERMOPLASTIC MATERIAL >> TIES CLIPS



Description	Diameter	Colour	Code	
COLLAR CLIPS	ø13-32mm		860.1616	100/1.000
	ø40-63mm		860.1640	100/500

■ MADE OF SELF-EXTINGUISHING THERMOPLASTIC MATERIAL >> PRESSURE CLIPS



Description	Diameter	Colour	Code	
PRESSURE CLIPS	ø16-20mm		860.01620	100/1.200
	ø25-32mm		860.02532	50/600
	ø40-50mm		860.04050	40/320

■ MADE OF ZINC-BICHROMATE STEEL >> SPACER BRACKET



Description	Diameter	Code	
COLLAR	ø10-11mm	820.610	100/1.000
	ø12-13mm	820.612	100/1.000
	ø14-15mm	820.614	100/1.000
	ø16-17mm	820.616	100/1.000
	ø19-20mm	820.620	100/1.000
	ø21-22mm	820.622	100/1.000
	ø25-26mm	820.625	100/1.000
	ø28-29mm	820.628	100/1.000
	ø31-32mm	820.632	100/1.000
	ø38-40mm	820.640	100/1.000
	ø48-50mm	820.650	50/400

Electrolytic zinc coating, followed by passivation and yellow colouring.
 Made of zinc-plated steel.
 With M6 threaded base.



■ MADE OF ZINC-BICHROMATE STEEL >> HALF-SADDLE - STANDARD TYPE



Description	Diameter	Code	
CLIPS	ø10-11mm	820.710	200/1.000
	ø12-13mm	820.712	200/1.000
	ø14-15mm	820.714	200/1.000
	ø16-17mm	820.716	100/1.000
	ø19-20mm	820.720	100/1.000
	ø21-22mm	820.722	100/1.000
	ø25-26mm	820.725	100/1.000



Electrolytic zinc coating, followed by passivation and yellow colouring.
 Made of zinc-plated steel.

■ MADE OF ZINC-BICHROMATE STEEL >> HALF-SADDLE - HEAVY DUTY TYPE

Description	Diameter	Code	
 CLIPS	ø10-11mm	820.710/P	100/1.000
	ø12-13mm	820.712/P	100/1.000
	ø14-15mm	820.714/P	100/1.000
	ø16-17mm	820.716/P	100/1.000
	ø19-20mm	820.720/P	100/1.000
	ø21-22mm	820.722/P	100/1.000
	ø25-26mm	820.725/P	100/1.000
	ø31-32mm	820.732/P	100/1.000
	ø38-40mm	820.740/P	100/500
	ø48-50mm	820.750/P	50/500

Electrolytic zinc coating, followed by passivation and yellow colouring.
Made of zinc-plated steel.

■ MADE OF ZINC-BICHROMATE STEEL >> SADDLE

Description	Diameter	Code	
 SADDLE	ø10-11mm	820.810	100/1.000
	ø12-13mm	820.813	100/1.000
	ø16-17mm	820.816	100/1.000
	ø19-20mm	820.819	100/1.000
	ø21-22mm	820.822	100/1.000
	ø25-26mm	820.826	100/1.000
	ø28-29mm	820.828	100/1.000
	ø31-32mm	820.832	100/1.000
	ø38-40mm	820.838	100/1.000
	ø48-50mm	820.850	50/500

Electrolytic zinc coating, followed by passivation and yellow colouring.
Made of zinc-plated steel.



TUBE Series

TUBE is a range of conduit accessories available in different diameters and degrees of protection IP40 or IP65.

technical sheet p. 872

■ IP40 >> INSPECTION ELBOW



Description	Diameter	Colour	Code	
INSPECTION ELBOW	ø16mm		860.1116/G	50/800
	ø20mm		860.1120/G	50/600
	ø25mm		860.1125/G	50/400
	ø32mm		860.1132/G	25/200

IP: IP40

■ IP40 >> FLAT TEE INSPECTION



Description	Diameter	Colour	Code	
FLAT TEE INSPECTION	ø16mm		860.1216/G	50/800
	ø20mm		860.1220/G	50/400
	ø25mm		860.1225/G	25/300
	ø32mm		860.1232/G	20/160








IP: IP40



CONDUITS ACCESSORIES
FIXER SERIES - TUBE SERIES

■ IP40 >> BEND WITH TWO COUPLINGS










Description	Diameter	Colour	Code	
BEND WITH TWO COUPLINGS	ø16mm		862.916/G	50/800
	ø20mm		862.920/G	50/400
	ø25mm		862.925/G	25/200
	ø32mm		862.932/G	25/150
	ø40mm		862.940/G	15/60
	ø50mm		862.950/G	10/40

IP: IP40

■ IP40 >> CONDUIT COUPLING










Description	Diameter	Colour	Code	
CONDUIT COUPLING	ø16mm		862.1016/G	100/1.200
	ø20mm		862.1020/G	100/800
	ø25mm		862.1025/G	50/600
	ø32mm		862.1032/G	25/300
	ø40mm		862.1040/G	20/160
	ø50mm		862.1050/G	20/120

IP: IP40

■ IP40 >> CONDUIT COUPLING



Description	Diameter	Colour	Code	
CONDUIT COUPLING	ø16mm		862.1916	100/2.000
	ø20mm		862.1920	100/1.200
	ø25mm		862.1925	50/700
	ø32mm		862.1932	25/400
	ø40mm		862.1940	300
	ø50mm		862.1950	150

IP: IP40

■ IP65 >> BEND WITH TWO COUPLINGS



Description	Diameter	Colour	Code	
BEND WITH TWO COUPLINGS	ø16mm		864.216	50/600
	ø20mm		864.220	50/400
	ø25mm		864.225	25/200
	ø32mm		864.232	25/100
	ø40mm		864.240	15/60
	ø50mm		864.250	10/40

The internal seal ensures IP65 protection even in the case of dilation due to temperature changes.
Made of rigid, insulated, self-extinguishing and impact-resistant thermoplastic material.

IP: IP65

■ IP65 >> CONDUIT COUPLING



Description	Diameter	Colour	Code	
CONDUIT COUPLING	ø16mm		864.316	50/800
	ø20mm		864.320	50/600
	ø25mm		864.325	50/400
	ø32mm		864.332	25/200
	ø40mm		864.340	20/160
	ø50mm		864.350	10/80

The internal seal ensures IP65 protection even in the case of dilation due to temperature changes.
Made of rigid, insulated, self-extinguishing and impact-resistant thermoplastic material.

IP: IP65

■ IP65 >> CONDUIT TO BOX COUPLINGS



Description	Thread	Diameter	Colour	Code	
CONDUIT COUPLING	M16X1,5	ø16mm		864.516	50/800
	M20X1,5	ø20mm		864.520	50/600
	M25X1,5	ø25mm		864.525	50/400
	M32X1,5	ø32mm		864.532	25/300
	M40X1,5	ø40mm		864.540	25/200
	M50X1,5	ø50mm		864.550	15/120

The internal seal ensures IP65 protection even in the case of dilation due to temperature changes.
Supplied complete with threaded lock nut and relative seal.

IP: IP65

■ IP65 >> CONDUIT TO SHEATH COUPLINGS



Description	Diameter	Sheath	Colour	Code	
CONDUIT COUPLING	ø16mm	ø12mm		864.716	50/800
	ø16mm	ø16mm		864.816	50/600
	ø20mm	ø16mm		864.720	50/600
	ø20mm	ø20mm		864.820	50/400
	ø25mm	ø20mm		864.725	50/400
	ø25mm	ø25mm		864.825	25/200
	ø32mm	ø25mm		864.732	25/200
	ø32mm	ø32mm		864.832	20/160
	ø40mm	ø32mm		864.740	20/160
	ø40mm	ø40mm		864.840	15/120
	ø50mm	ø40mm		864.750	15/120
	ø50mm	ø50mm		864.850	10/80

The internal seal ensures IP65 protection even in the case of dilation due to temperature changes.

IP: IP65



■ IP65 >> FLEXIBLE BEND



Description	Diameter	Colour	Code	
FLEXIBLE BEND	ø16mm		864.2016	50
	ø20mm		864.2020	50
	ø25mm		864.2025	50
	ø32mm		864.2032	25
	ø40mm		864.2040	25
	ø50mm		864.2050	15

The internal seal ensures IP65 protection even in the case of dilation due to temperature changes.
Made of rigid, insulated, self-extinguishing and impact-resistant thermoplastic material.

IP: IP65

■ IP65 >> FLEXIBLE COUPLING FOR CONNECTION RIGID TUBE



Description	Thread	Diameter	Colour	Code	
FLEXIBLE BEND	M16X1,5	ø16mm		864.9016	50
	M20X1,5	ø20mm		864.9020	50
	M25X1,5	ø25mm		864.9025	50
	M32X1,5	ø32mm		864.9032	25
	M40X1,5	ø40mm		864.9040	25
	M50X1,5	ø50mm		864.9050	15

The internal seal ensures IP65 protection even in the case of dilation due to temperature changes.
Supplied complete with threaded lock nut and relative seal.

IP: IP65

■ IP65 >> SHEATH TO BOX COUPLINGS



Description	Thread	Sheath	Colour	Code	
CONDUIT COUPLING	M16X1,5	ø10mm		864.651	50/1.200
	M16X1,5	ø12mm		864.653	50/1.200
	M20X1,5	ø16mm		864.655	50/800
	M25X1,5	ø20mm		864.657	50/400
	M32X1,5	ø25mm		864.659	25/300
	M40X1,5	ø32mm		864.661	25/200
	M50X1,5	ø40mm		864.663	15/120
	M63X1,5	ø50mm		864.665	10/80
	PG11	ø12mm		864.601	50/1.200
	PG13,5	ø12mm		864.603	50/1.200
	PG13,5	ø16mm		864.605	50/800
	PG16	ø16mm		864.606	50/800
	PG21	ø20mm		864.607	50/400
	PG29	ø25mm		864.609	25/300
	PG36	ø32mm		864.611	25/200

Supplied complete with threaded lock nut and relative seal.

IP: IP65



SMART Series

SMART is a complete range of conduit accessories made of technopolymer with the particularity of having the co-molded gasket. This guarantees an IP66/67 degree of protection and an easier installation without the risk of flatten or deforming the gasket.

technical sheet p. 871

■ BEND WITH TWO COUPLINGS



Description	Diameter	Colour	Code	
BEND WITH TWO COUPLINGS	ø16mm		866.216	10/200
	ø20mm		866.220	10/200
	ø25mm		866.225	10/160
	ø32mm		866.232	10/100
	ø40mm		866.240	5/50
	ø50mm		866.250	5/30

IP: IP66/IP67

■ CONDUIT COUPLING



Description	Diameter	Colour	Code	
JOINT COVER	ø16mm		866.316	10/200
	ø20mm		866.320	10/200
	ø25mm		866.325	10/160
	ø32mm		866.332	10/100
	ø40mm		866.340	5/50
	ø50mm		866.350	5/30

IP: IP66/IP67



CONDUITS ACCESSORIES
TUBESERIES - SMART SERIES

■ CONDUIT TO BOX COUPLINGS



Description	Diameter	Colour	Code	
CONDUIT COUPLING	ø16mm	■	866.516	10/240
	ø20mm	■	866.520	10/240
	ø25mm	■	866.525	10/200
	ø32mm	■	866.532	10/100
	ø40mm	■	866.540	5/60
	ø50mm	■	866.550	5/40

IP: IP66/IP67

■ CONDUIT TO SHEATH COUPLINGS



Description	Diameter	Colour	Code	
CONDUIT COUPLING	ø16mm	■	866.816	10/240
	ø20mm	■	866.820	10/240
	ø25mm	■	866.825	10/200
	ø32mm	■	866.832	10/100
	ø40mm	■	866.840	5/60
	ø50mm	■	866.850	5/40

IP: IP66

■ FLEXIBLE BEND



Description	Diameter	Colour	Code	
FLEXIBLE BEND	ø16mm	■	866.2016	50
	ø20mm	■	866.2020	50
	ø25mm	■	866.2025	50
	ø32mm	■	866.2032	25
	ø40mm	■	866.2040	25
	ø50mm	■	866.2050	15

The internal seal ensures IP65 protection even in the case of dilation due to temperature changes.
Made of rigid, insulated, self-extinguishing and impact-resistant thermoplastic material.

IP: IP66

■ FLEXIBLE COUPLING FOR CONNECTION RIGID TUBE

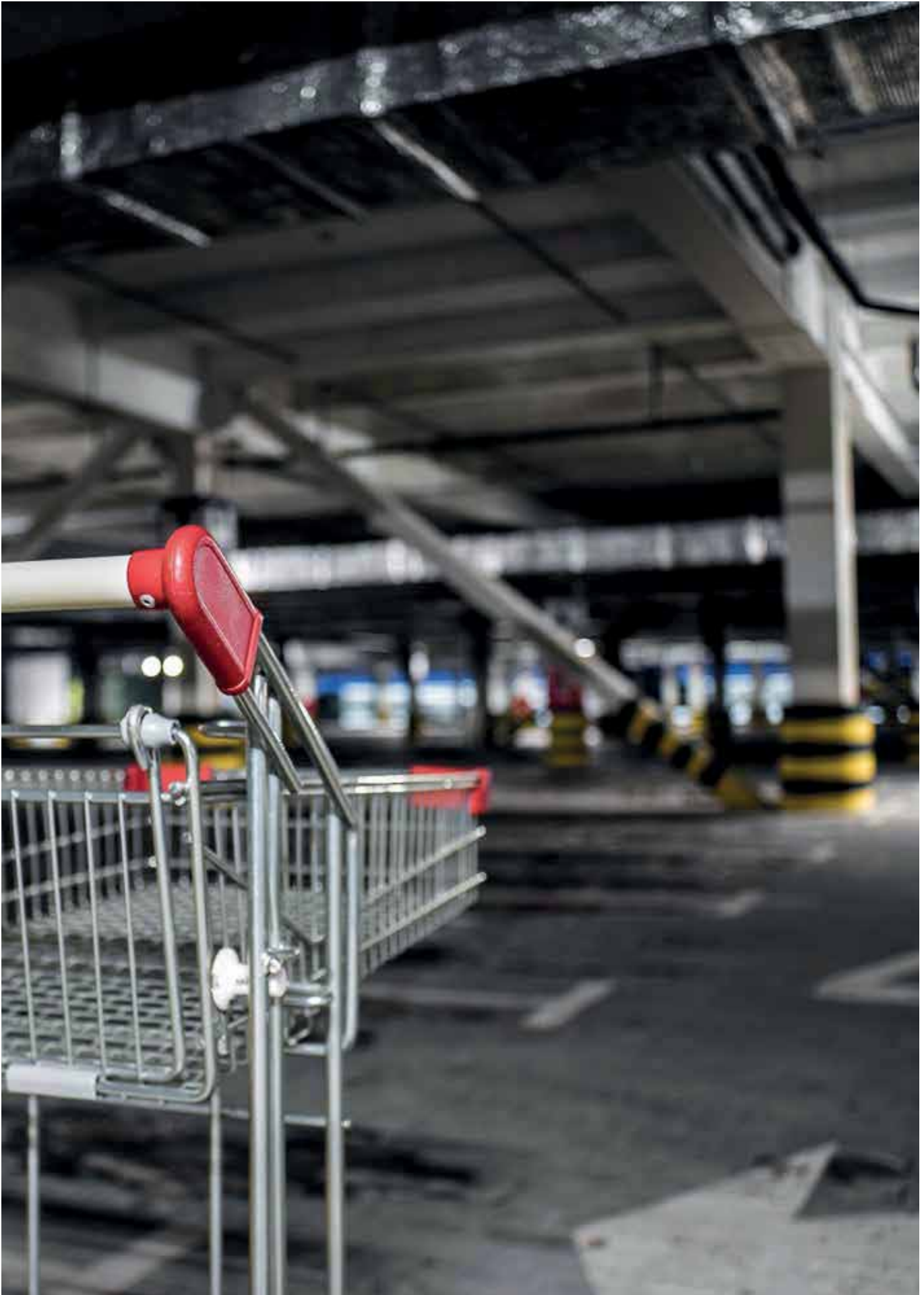


Description	Thread	Diameter	Colour	Code	
FLEXIBLE BEND	M20X1,5	ø16mm	■	866.9016	50
	M25X1,5	ø20mm	■	866.9020	50
	M32X1,5	ø25mm	■	866.9025	50
	M40X1,5	ø32mm	■	866.9032	25
	M50X1,5	ø40mm	■	866.9040	25
	M63X1,5	ø50mm	■	866.9050	15

The internal seal ensures IP65 protection even in the case of dilation due to temperature changes.
Supplied complete with threaded lock nut and relative seal.

IP: IP65

Applications examples

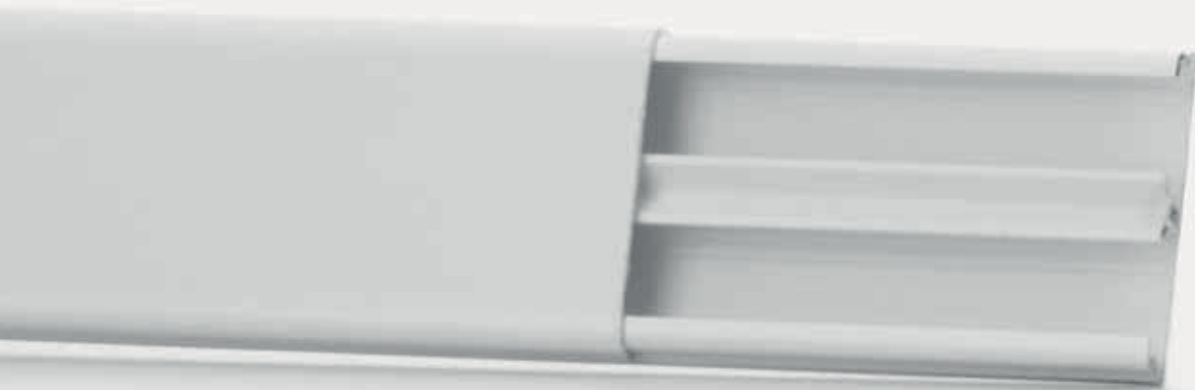


CONDUITS ACCESSORIES
SMART SERIES





TRUNKING



TRUNKING

WADO SERIES - MINI-TRUNKING

p. 618

Cable trunking system



WADO SERIES - SLOTTED CABLE TRUNKING

p. 622

Slotted cable trunking system




TRUNKING




WADO Series - Mini-trunking

WADO is a complete range of mini-trunking and wiring trunking ideal for applications in the tertiary sector, where the wide availability of sizes and accessories allows flexible configurations able to meet any need.

 technical sheet p. 875

■ ADHESIVE MINI-TRUNKING >> EQUIPPED WITH HINGED COVERAGE (1 METER)




Dimensions	Number of compartments	Colour	Code	
12x12mm	1 WAY	<input type="checkbox"/>	876.1212AD	90/4.410
12x7mm	1 WAY	<input type="checkbox"/>	876.1207AD	160/7.840
16x12mm	1 WAY	<input type="checkbox"/>	876.1612AD	70/3.430

Standard bar length: 2m.
Mounting: wall or ceiling.
Can be removed without any tool.

■ MINI-TRUNKING >> STANDARD LID (1 METER)




Dimensions	Number of compartments	Colour	Code	
20x10mm	1 WAY	<input type="checkbox"/>	876.2010	80/3.920
20x15mm	1 WAY	<input type="checkbox"/>	876.2015	50/2.450
30x15mm	1 WAY	<input type="checkbox"/>	876.3015	60/1.800
40x10mm	2 WAYS	<input type="checkbox"/>	876.4010	72
40x15mm	2 WAYS	<input type="checkbox"/>	876.4015	48/1.440
40x20mm	1 WAY	<input type="checkbox"/>	876.4021	36/1.080
40x20mm	2 WAYS	<input type="checkbox"/>	876.4020	36/84/1.080
60x20mm	3 WAYS	<input type="checkbox"/>	876.6020	32/640

Standard bar length: 2m.

■ MINI-TRUNKING >> ENVELOPING LID (1 METER)




Dimensions	Number of compartments	Colour	Code	
20x15mm	1 WAY	<input type="checkbox"/>	876.2015AV	50/2.450
30x15mm	1 WAY	<input type="checkbox"/>	876.3015AV	60/1.800
40x15mm	2 WAYS	<input type="checkbox"/>	876.4015AV	48/1.440
40x20mm	2 WAYS	<input type="checkbox"/>	876.4020AV	36/84/1.080
60x20mm	3 WAYS	<input type="checkbox"/>	876.6020AV	32/640

Standard bar length: 2m.


■ ACCESSORIES >> FLAT ANGLE



Dimensions	Number of compartments	Colour	Code	
20x10mm	1 WAY	<input type="checkbox"/>	876.AP2010	30
20x15mm	1 WAY	<input type="checkbox"/>	876.AP2015	30
30x15mm	1 WAY	<input type="checkbox"/>	876.AP3015	30
40x10mm	2 WAYS	<input type="checkbox"/>	876.AP4010	30
40x15mm	2 WAYS	<input type="checkbox"/>	876.AP4015	30
40x20mm	2 WAYS	<input type="checkbox"/>	876.AP4020	30
60x20mm	3 WAYS	<input type="checkbox"/>	876.AP6020	30


■ ACCESSORIES >> INTERNAL ANGLE



Dimensions	Number of compartments	Colour	Code	
20x10mm	1 WAY	<input type="checkbox"/>	876.AI2010	30
20x15mm	1 WAY	<input type="checkbox"/>	876.AI2015	30
30x15mm	1 WAY	<input type="checkbox"/>	876.AI3015	30
40x10mm	2 WAYS	<input type="checkbox"/>	876.AI4010	30
40x15mm	2 WAYS	<input type="checkbox"/>	876.AI4015	30
40x20mm	2 WAYS	<input type="checkbox"/>	876.AI4020	30
60x20mm	3 WAYS	<input type="checkbox"/>	876.AI6020	30


■ ACCESSORIES >> EXTERNAL ANGLE



Dimensions	Number of compartments	Colour	Code	
20x10mm	1 WAY	<input type="checkbox"/>	876.AE2010	30
20x15mm	1 WAY	<input type="checkbox"/>	876.AE2015	30
30x15mm	1 WAY	<input type="checkbox"/>	876.AE3015	30
40x10mm	2 WAYS	<input type="checkbox"/>	876.AE4010	30
40x15mm	2 WAYS	<input type="checkbox"/>	876.AE4015	30
40x20mm	2 WAYS	<input type="checkbox"/>	876.AE4020	30
60x20mm	3 WAYS	<input type="checkbox"/>	876.AE6020	30

■ ACCESSORIES >> END ADAPTOR











Dimensions	Number of compartments	Colour	Code	
20x10mm	1 WAY	<input type="checkbox"/>	876.AT2010	30
20x15mm	1 WAY	<input type="checkbox"/>	876.AT2015	30
30x15mm	1 WAY	<input type="checkbox"/>	876.AT3015	30
40x10mm	2 WAYS	<input type="checkbox"/>	876.AT4010	30
40x15mm	2 WAYS	<input type="checkbox"/>	876.AT4015	30
40x20mm	2 WAYS	<input type="checkbox"/>	876.AT4020	30
60x20mm	3 WAYS	<input type="checkbox"/>	876.AT6020	30











■ ACCESSORIES >> SIDE ADAPTOR



Dimensions	Number of compartments	Colour	Code	
20x10mm	1 WAY		876.AL2010	30
20x15mm	1 WAY		876.AL2015	30
30x15mm	1 WAY		876.AL3015	30
40x10mm	1 WAY		876.AL4010	30
40x15mm	1 WAY		876.AL4015	30
40x20mm	1 WAY		876.AL4020	30
60x20mm	1 WAY		876.AL6020	30









■ ACCESSORIES >> FLAT TEE



Dimensions	Number of compartments	Colour	Code	
20x10mm	1 WAY		876.GT2010	30
20x15mm	1 WAY		876.GT2015	30
30x15mm	1 WAY		876.GT3015	30
40x10mm	2 WAYS		876.GT4010	30
40x15mm	2 WAYS		876.GT4015	30
40x20mm	2 WAYS		876.GT4020	30
60x20mm	3 WAYS		876.GT6020	30









■ ACCESSORIES >> COVER JOINT



Dimensions	Number of compartments	Colour	Code	
20x10mm	1 WAY		876.GU2010	30
20x15mm	1 WAY		876.GU2015	30
30x15mm	1 WAY		876.GU3015	30
40x10mm	2 WAYS		876.GU4010	30
40x15mm	2 WAYS		876.GU4015	30
40x20mm	2 WAYS		876.GU4020	30
60x20mm	3 WAYS		876.GU6020	30

■ ACCESSORIES >> END CAP



Dimensions	Number of compartments	Colour	Code	
20x10mm	1 WAY		876.TT2010	30
20x15mm	1 WAY		876.TT2015	30
30x15mm	1 WAY		876.TT3015	30
40x10mm	2 WAYS		876.TT4010	30
40x15mm	2 WAYS		876.TT4015	30
40x20mm	2 WAYS		876.TT4020	30
60x20mm	3 WAYS		876.TT6020	30

ACCESSORIES >> CABLE RETAINER



Dimensions	Number of compartments	Colour	Code	
20x15mm	1 WAY		876.TF20	30
30x15mm	1 WAY		876.TF30	30
40x15mm	2 WAYS		876.TF40	30
60x20mm	3 WAYS		876.TF60	30

ACCESSORIES >> CONNECTION Ø16MM



Dimensions	Number of compartments	Diameter	Colour	Code	
20x10mm	1 WAY	ø16mm		876.RT2010	30
20x15mm	1 WAY	ø16mm		876.RT2015	30

BOXES >> BOX FOR WIRING ACCESSORIES



Dimensions	Wheel-base	Colour	Code	
100x100x35mm	55mm		876.PA5530 ³⁾	10
100x100x43mm	60mm		876.PA6040 ¹⁾	10
100x100x53mm	60mm		876.PA6050 ¹⁾	10
142x100x43mm	83,5mm		876.PA8040 ²⁾	10
142x100x53mm	83,5mm		876.PA8050 ²⁾	10

They can be mounted on all WADO series Scame mini-trunking.

When combined to the proper end adaptor (AT) or side adaptor (AL), they allow for quick installation and complete the connection to the mini-trunking; the outcome is an elegant and attractive look, free from any imperfections.

¹⁾ They consist of a base and a lid and can accommodate switch-andplug frames whose distance between centers is 60mm.

²⁾ They consist of a base and a lid and can accommodate switch-andplug frames whose distance between centers is 83.5mm.

³⁾ Suitable for OTEO Series inserts by LEGRAND®.

BOXES >> JUNCTION BOX KIT



Wheel-base	Colour	Code	
60mm		876.PK60	10
83,5mm		876.PK80	10

The kit includes a cover and a circuit separation accessory.

When combined to the back box, it allows to obtain a spacious junction box.

Snap-on fixing.

BOXES >> JUNCTION BOX



Dimensions	Colour	Code	
67x67mm		876.SA70	10

Compact box of reduced size, equipped with circuit separation accessory.


Ideal to shunt micro raceways up to 40x20mm, it has the same characteristics of PK60 and PK80 boxes.

Steel screw class 4.8 and yellow passivated zinc-plating $\geq 5\mu$.



WADO Series - Slotted cable trunking


WADO is a complete range of mini-trunking and wiring trunking ideal for applications in the tertiary sector, where the wide availability of sizes and accessories allows flexible configurations able to meet any need.

 technical sheet p. 874

■ SHORT PITCH - 4/6/4 (1 METER)



Type: SHORT PITCH

Dimensions	Quarry height	Colour	Code	
80x60mm	50mm		874.R8060	24
100x40mm	30mm		874.R0040	24
100x60mm	50mm		874.R0060	20
100x80mm	68mm		874.R0080	16
120x40mm	30mm		874.R0240	20
120x60mm	50mm		874.R0260	14
120x80mm	68mm		874.R0280	12
25x30mm	23,5mm		874.R2530	58
25x40mm	30mm		874.R2540	48
25x60mm	50mm		874.R2560	34
25x80mm	68mm		874.R2580	28
40x30mm	23,5mm		874.R4030	38
40x40mm	30mm		874.R4040	30
40x60mm	50mm		874.R4060	22
40x80mm	68mm		874.R4080	36
60x40mm	30mm		874.R6040	40
60x60mm	50mm		874.R6060	32
60x80mm	68mm		874.R6080	24
80x40mm	30mm		874.R8040	32
80x80mm	68mm		874.R8080	16

Standard bar length: 2m.

■ STANDARD PITCH 8/12/8 - 6/8/6 (1 METER)



Type: STANDARD PITCH

Dimensions	Quarry height	Colour	Code	
80x60mm	50mm	■	874.8060	24
100x40mm	30mm	■	874.0040	24
100x60mm	50mm	■	874.0060	20
100x80mm	68mm	■	874.0080	16
120x40mm	30mm	■	874.0240	20
120x60mm	50mm	■	874.0260	14
120x80mm	68mm	■	874.0280	12
25x30mm	23,5mm	■	874.2530 ¹⁾	58
25x40mm	30mm	■	874.2540	48
25x60mm	50mm	■	874.2560	
25x80mm	68mm	■	874.2580	28
40x30mm	23,5mm	■	874.4030 ¹⁾	38
40x40mm	30mm	■	874.4040	30
40x60mm	50mm	■	874.4060	22
40x80mm	68mm	■	874.4080	36
60x40mm	30mm	■	874.6040	40
60x60mm	50mm	■	874.6060	32
60x80mm	68mm	■	874.6080	24
80x40mm	30mm	■	874.8040	
80x80mm	68mm	■	874.8080	16

Standard bar length: 2m.

¹⁾ For trunking h 30 pitch 6/8/6.



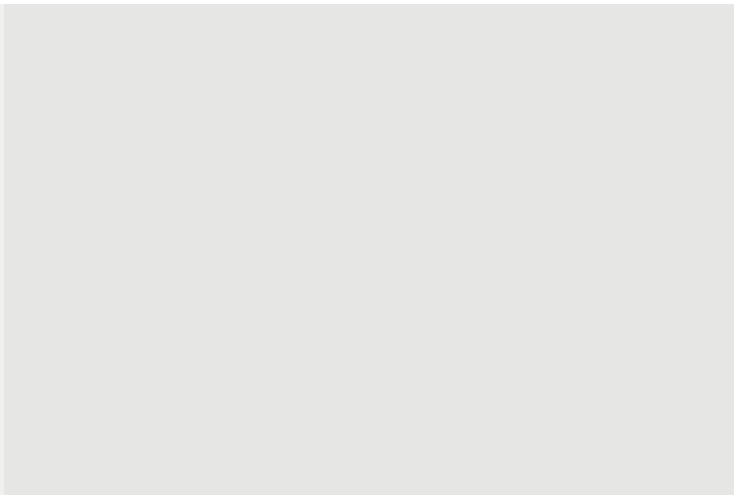
3. DOMESTIC



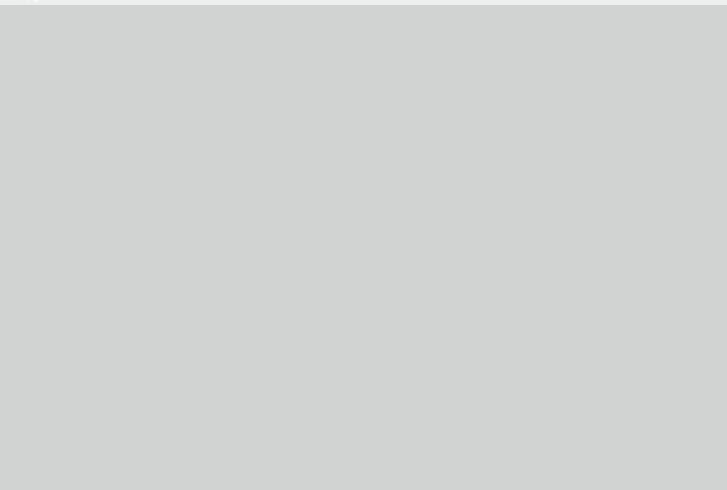
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**DOMESTIC PLUGS
AND SOCKETS**





DOMESTIC PLUGS AND SOCKETS

BLUELINE SERIES

p. 630

Mobile domestic plugs and sockets with external cable sleeve



AZZURRA SERIES

p. 632

Mobile domestic plugs and sockets



UNEL SERIES

p. 633

Mobile domestic plugs and sockets with side earth



BS SERIES

p. 634

British Standard mobile domestic plugs and sockets



QUICK SERIES

p. 635

Domestic plugs and connectors with rubber body



3.1 DOMESTIC PLUGS AND SOCKETS

Series BLUELINE



BLUELINE Series

BLUELINE is a complete range of mobile domestic plugs and sockets. Resistant electrical plugs and sockets thanks to the bodies in high-performance technopolymer with external cable sleeve and performing thanks to the nickel-plated brass pins.

technical sheet p. 879

ADJUSTABLE PLUGS



Current	Poles	Standard	Colour	Code	
10A	2P+E			106.3002	50/500
				106.3002/N	50/500
16A	2P+E			106.3004	50/500
				106.3004/N	50/500

Sleeved pin.

The plug can become extra flat by orienting the contacts by 90°.

PLUGS WITH STRAIGHT CABLE OUTLET



Current	Poles	Standard	Colour	Code	
10A	2P			106.3000	50/500
				106.3000/N	50/500
	2P+E			106.3001	50/500
				106.3001/N	50/500
16A	2P+E			106.3003	50/500
				106.3003/N	50/500

Sleeved pin.

Individual packing.

FLAT PLUGS WITH 90° ANGLED CABLE OUTLET



Current	Poles	Standard	Colour	Code	
10A	2P+E			116.68	100
				116.68/N	100
16A	2P+E			116.70	100
				116.70/N	100

Sleeved pin.

Individual packing.

■ TRAILING SOCKETS WITH STRAIGHT CABLE OUTLET



Current	Poles	Standard	Colour	Code	
10A	2P			106.3010	50/500
				106.3010/N	50/500
	2P+E			106.3011	50/500
				106.3011/N	50/500
16A	2P+E			106.3013	50/500
				106.3013/N	50/500

Individual packing.

Applications examples



DOMESTIC PLUGS AND SOCKETS
BLUENE SERIES



Italian standard S10
2P 10A



Italian standard S11
2P+E 10A



Italian standard S17
2P+E 16A



French/German standard
2P+E 16A



German standard
2P+E 16A



Italian standard P10
2P 10A



Italian standard P11
2P+E 10A



Italian standard P17/11
2P+E 16A



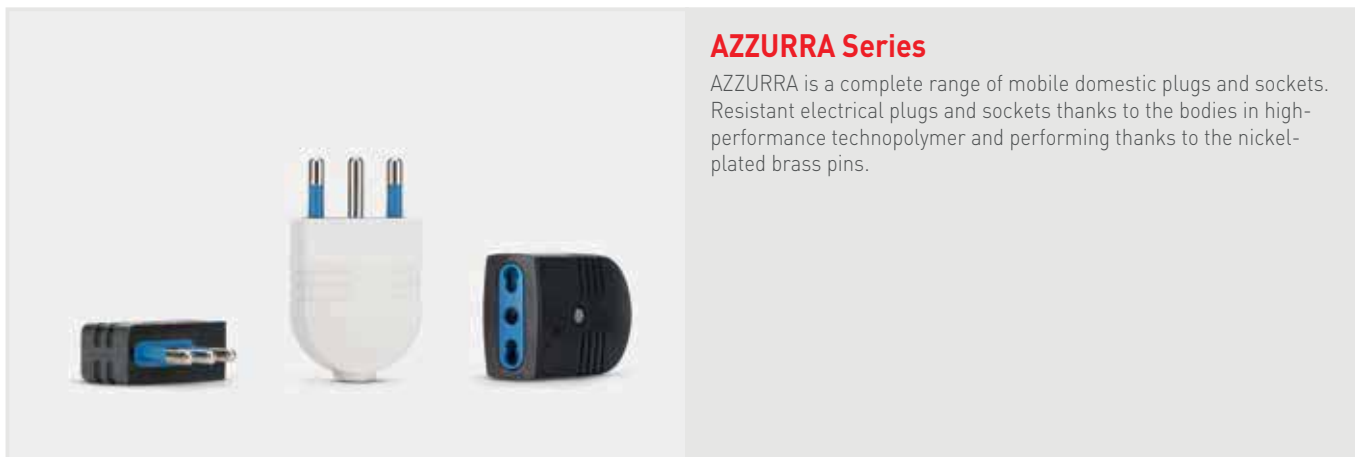
Italian standard P30
2P+E 16A



Pluristandard P40
2P+E 16A



German standard
2P+E 16A














**AZZURRA Series**

AZZURRA is a complete range of mobile domestic plugs and sockets. Resistant electrical plugs and sockets thanks to the bodies in high-performance technopolymer and performing thanks to the nickel-plated brass pins.

 technical sheet **p. 878**

■ **PLUGS WITH STRAIGHT CABLE OUTLET**












Current	Poles	Standard	Colour	Code	
10A	2P			104.4000	50/500
				104.4000/N	50/500
	2P+E			104.4001	50/500
				104.4001/N	50/500
16A	2P+E			104.4003	50/500
				104.4003/N	50/500

Sleeved pin.
Individual packing.

■ **FLAT PLUGS WITH 90° ANGLED CABLE OUTLET**
















Current	Poles	Standard	Colour	Code	
10A	2P+E			104.4068	100
				104.4068/N	100
16A	2P+E			104.4070	100
				104.4070/N	100

Sleeved pin.
Individual packing.

■ **TRAILING SOCKETS WITH STRAIGHT CABLE OUTLET**



Current	Poles	Standard	Colour	Code	
10A	2P			104.4010	50/500
				104.4010/N	50/500
	2P+E			104.4011	50/500
				104.4011/N	50/500
16A	2P+E			104.4013	50/500
				104.4013/N	50/500

Individual packing.

UNEL Series

UNEL is a range of mobile electrical plugs and sockets for domestic use. Made of technopolymer with nickel-plated brass pins, they are available in Italian, as well as German and French Standards. German standard version with 90° cable outlet are practical in terms of space saving.



technical sheet **p. 881**

■ PLUGS WITH 90° ANGLED CABLE OUTLET



Current	Poles	Standard	Colour	Code	
16A	2P+E			130.83	50/500
				130.83/N	50/500

■ PLUGS WITH 90° ANGLED CABLE OUTLET - SPACE SAVER



Current	Poles	Standard	Colour	Code	
16A	2P+E			130.2064	25
				130.2064/N	25

■ PLUGS WITH STRAIGHT CABLE OUTLET



Current	Poles	Standard	Colour	Code	
16A	2P+E			130.2063	50/500
				130.2063/N	50/500

■ TRAILING SOCKETS WITH STRAIGHT CABLE OUTLET



Current	Poles	Standard	Colour	Code	
16A	2P+E			130.2084	25/250
				130.2084/N	25/250
				130.2085	25/250
				130.2085/N	25/250
				130.2083	25/250
				130.2083/N	25/250



3.1 DOMESTIC PLUGS AND SOCKETS

BS Series - QUICK Series



BS Series

BS is a range of British Standard mobile domestic plugs and sockets, available as 13A fused or 15A. Resistant and performing electrical plugs and sockets thanks to the bodies in high-performance technopolymer and to the brass pins.

■ PLUGS WITH STRAIGHT OUTLET



Description	Standard	Current	Poles	Colour	Code	
PLUG		13A	2P+E		110.3000 ¹⁾	20/400
		13A	2P+E		110.3000/N ¹⁾	20/400
		15A	2P+E		110.3010	20/400

¹⁾Fused.



British
standard
2P+E 13A



British
standard
2P+E 15A

QUICK Series

QUICK is a range of German and French Standard mobile electrical plugs and sockets with IP44 degree of protection, resistant to impact thanks to the black rubber bodies. The English Standards plugs, made of thermoplastic material, complete the offer.



technical sheet p. 880

■ PLUGS WITH STRAIGHT OUTLET



Description	Standard	Current	Poles	Colour	Code	
PLUG		16A	2P+E		110.3100	10/150

■ SOCKETS WITH STRAIGHT OUTLET



Description	Standard	Current	Poles	Colour	Code	
CONNECTOR		16A	2P+E		110.3160	10/150
		16A	2P+E		110.3150	10/150



French/German
standard
2P+E 16A



German
standard
2P+E 16A



French
standard
2P+E 16A







**DOMESTIC
ADAPTORS**





DOMESTIC ADAPTORS

BLUELINE SERIES

p. 640

Domestic adaptors



AZZURRA SERIES

p. 644

Domestic adaptors



3.2 DOMESTIC ADAPTORS

BLUELINE Series



BLUELINE Series

BLUELINE is a complete range of adaptors for domestic use, available in single or multiple versions up to 4 sockets, essential for connection needs at home. Space-saving solutions and those equipped with a USB socket for charging mobile phones and tablets are really practical.

Reliable and safe products thanks to the use of high-performance technopolymer bodies and nickel-plated brass pins.

technical sheet p. 883

■ ONE-WAY ADAPTORS >> ITALIAN PLUG



Current	Plug	Socket	Max power	Colour	Code	
10A		1x	MAX 1.500W		146.641	50
		1x	MAX 1.500W		146.641/N	50
16A		1x	MAX 1.500W		146.651	50
		1x	MAX 1.500W		146.651/N	50

Sleeved pin.
Individual packing.

■ ONE-WAY ADAPTORS >> ITALIAN PLUG - SPACESAVER



Current	Plug	Socket	Max power	Colour	Code	
10A		1x	MAX 1.500W		146.661	50
		1x	MAX 1.500W		146.661/N	50

Sleeved pin.
Individual packing.

■ ONE-WAY ADAPTORS >> ALIGNED POLES



Current	Plug	Socket	Colour	Code	
16A		1x		146.351	50/500
		1x		146.351/N	50/500

Sleeved pin.
Individual packing.

ONE-WAY ADAPTORS >> ALIGNED POLES - LIGHTNING PROTECTION



Current	Plug	Socket	Max power	Colour	Code	
10A		1x	MAX 1.500W		146.360	12/48

Sleeved pin.
Individual packing.
With lightning protection.

ONE-WAY ADAPTORS >> FRENCH-GERMAN STANDARD PLUG



Current	Plug	Socket	Max power	Colour	Code	
16A		1x	MAX 1.500W		146.361	50
		1x	MAX 1.500W		146.361/N	50

Individual packing.

MULTI-WAY ADAPTORS >> 3-WAY ADAPTORS



Current	Plug	Socket	Max power	Colour	Code	
10A		3x	MAX 1.500W		146.555/3	50
		3x	MAX 1.500W		146.555/3-N	50
16A		3x	MAX 1.500W		146.550/3	25/250
		3x	MAX 1.500W		146.550/3-N	25/250
		3x	MAX 1.500W		146.540	6/120
		3x	MAX 1.500W		146.540/N	6/120

Sleeved pin.
Individual packing.



Italian standard S10
2P 10A



Italian standard S11
2P+E 10A



Italian standard S17
2P+E 16A



French/German standard
2P+E 16A



German standard
2P+E 16A



Italian standard P10
2P 10A



Italian standard P11
2P+E 10A



Italian standard P17/11
2P+E 16A



Italian standard P30
2P+E 16A



Pluristandard P40
2P+E 16A



German standard
2P+E 16A



MULTI-WAY ADAPTORS >> 3-WAY MULTI-STANDARD ADAPTORS


Current	Plug	Socket	Max power	Colour	Code	
10A		1x 2x	MAX 1.500W		146.557	25
		1x 2x	MAX 1.500W		146.557/N	25
16A		1x 2x	MAX 1.500W		146.559	25
		1x 2x	MAX 1.500W		146.559/N	25
	2x 1x	MAX 1.500W		146.570	25	
	2x 1x	MAX 1.500W		146.570/N	25	
		2x 1x	MAX 1.500W		146.362	25
		2x 1x	MAX 1.500W		146.362/N	25

Sleeved pin.
Individual packing.

MULTI-WAY ADAPTORS >> 3-WAY MULTI-STANDARD ADAPTORS (SPACE SAVER)


Current	Plug	Socket	Max power	Colour	Code	
10A		1x 2x	MAX 1.500W		146.560	25
		1x 2x	MAX 1.500W		146.560/N	25
		3x	MAX 1.500W		146.562	25/250
		3x	MAX 1.500W		146.562/N	25/250
16A		1x 2x	MAX 1.500W		146.561	25
		1x 2x	MAX 1.500W		146.561/N	25
		3x	MAX 1.500W		146.563	25/250
		3x	MAX 1.500W		146.563/N	25/250

Sleeved pin.
Individual packing.

MULTI-WAY ADAPTORS >> 4-WAY ADAPTORS


Current	Plug	Socket	Max power	Colour	Code	
10A		4x	MAX 1.500W		146.534	25/250
		4x	MAX 1.500W		146.534/N	25/250
16A		4x	MAX 1.500W		146.530	25/250
		4x	MAX 1.500W		146.530/N	25/250

Sleeved pin.
Individual packing.

■ MULTI-WAY ADAPTORS >> 2-WAY ADAPTORS WITH LUMINOUS INDICATOR



Current	Plug	Socket	Max power	Colour	Code	
10A		2x	MAX 1.500W		146.500	25/250
16A		2x	MAX 1.500W		146.501	25/250

Sleeved pin.
Individual packing.

■ MULTI-WAY ADAPTORS >> 2-WAY ADAPTORS WITH USB



Current	Plug	Socket	Max power	Colour	Code	
10A		2x 1x 5V 1.2A	MAX 1.500W		146.510	10
		2x 1x 5V 1.2A	MAX 1.500W		146.510/N	10
16A		2x 1x 5V 1.2A	MAX 1.500W		146.511	10
		2x 1x 5V 1.2A	MAX 1.500W		146.511/N	10

USB socket (Universal Serial Bus) for power supply of electronic devices (1,2A max).



Italian standard S11
2P+E 10A



Italian standard S17
2P+E 16A



French/German standard
2P+E 16A



Italian standard P11
2P+E 10A



Italian standard P17/11
2P+E 16A



Italian standard P30
2P+E 16A



Pluristandard P40
2P+E 16A



USB

3.2 DOMESTIC ADAPTORS

AZZURRA Series



AZZURRA Series

AZZURRA is a range of adaptors for domestic use, available in single or 3-way versions, essential for small connection needs at home.

Reliable and safe products thanks to the use of high-performance technopolymer bodies and nickel-plated brass pins.

technical sheet p. 882

ONE-WAY ADAPTORS >> ITALIAN PLUG



Current	Plug	Socket	Max power	Colour	Code	
10A		1x	MAX 1.500W		144.441	50
		1x	MAX 1.500W		144.441/N	50
16A		1x	MAX 1.500W		144.451	50
		1x	MAX 1.500W		144.451/N	50

Sleeved pin.
Individual packing.

MULTI-WAY ADAPTORS >> 3-WAY ADAPTORS



Current	Plug	Socket	Max power	Colour	Code	
10A		3x	MAX 1.500W		144.455	50
		3x	MAX 1.500W		144.455/N	50
16A		3x	MAX 1.500W		144.450	25/250
		3x	MAX 1.500W		144.450/N	25/250

Sleeved pin.
Individual packing.

MULTI-WAY ADAPTORS >> 3-WAY MULTI-STANDARD ADAPTORS



Current	Plug	Socket	Max power	Colour	Code	
10A		1x 2x	MAX 1.500W		144.457	25
		1x 2x	MAX 1.500W		144.457/N	25
16A		1x 2x	MAX 1.500W		144.459	25
		1x 2x	MAX 1.500W		144.459/N	25
		2x 1x	MAX 1.500W		144.470	25
		2x 1x	MAX 1.500W		144.470/N	25

Sleeved pin.
Individual packing.

Applications examples



Italian standard S11
2P+E 10A



Italian standard S17
2P+E 16A



Italian standard P11
2P+E 10A



Italian standard P17/11
2P+E 16A

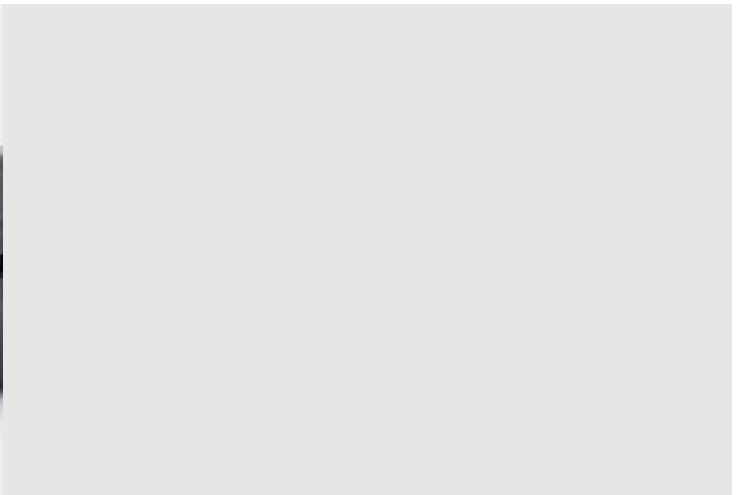


Italian standard P30
2P+E 16A

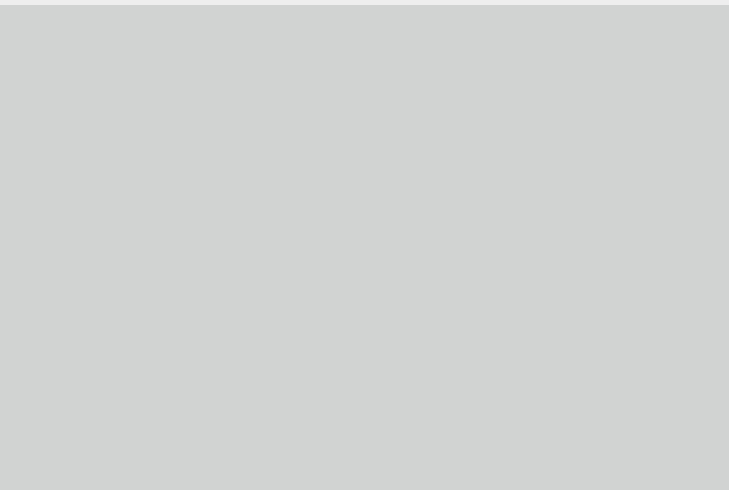


Pluristandard P40
2P+E 16A





**DOMESTIC
MULTIPLE SOCKETS**



3.3 DOMESTIC MULTIPLE SOCKETS



DOMESTIC MULTIPLE SOCKETS

TREND SERIES p. 650
Domestic multiple sockets with side socket outlets



SICURA SERIES p. 653
Domestic multiple sockets with pluristandard socket outlets



BLUELINE SERIES p. 656
Domestic multiple sockets



QUICK SERIES p. 662
Domestic multiple sockets with rubber body



SPYROS SERIES p. 663
Domestic extenders



3.3 DOMESTIC MULTIPLE SOCKETS

TREND Series



TREND Series

TREND is a complete range of multiple sockets for domestic use with top and side sockets, in configurations from 3 up to 12 socket outlets. All the multiple sockets are prepared with 1.5 m long cable and available with light switch. Characterized by a modern, elegant and functional design, they are made of high-performance technopolymer. Practical the version with 4 socket outlets equipped with USB socket for charging mobile phones and tablets.

technical sheet p. 886

■ WITHOUT LUMINOUS SWITCH



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		1x 2x	1,5m	1mm ²	MAX 3.600W		165.10401.N	10
		1x 2x	1,5m	1mm ²	MAX 3.600W		165.10401.R	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 3



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		2x 4x	1,5m	1mm ²	MAX 3.600W		165.20401.N	10
		2x 4x	1,5m	1mm ²	MAX 3.600W		165.20401.R	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 6



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		3x 6x	1,5m	1mm ²	MAX 3.600W		165.30401.N	10
		3x 6x	1,5m	1mm ²	MAX 3.600W		165.30401.R	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 9

■ WITH LUMINOUS SWITCH



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		2x 4x	1,5m	1mm ²	MAX 3.600W		165.20411.N	10
		2x 4x	1,5m	1mm ²	MAX 3.600W		165.20411.R	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 6



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		3x 6x	1,5m	1mm ²	MAX 3.600W		165.30411.N	10
		3x 6x	1,5m	1mm ²	MAX 3.600W		165.30411.R	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 9



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		4x 8x	1,5m	1mm ²	MAX 3.600W		165.40411.N	10
		4x 8x	1,5m	1mm ²	MAX 3.600W		165.40411.R	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 12



Italian standard S17
2P+E 16A



Italian standard P17/11
2P+E 16A



Italian standard P30
2P+E 16A



DOMESTIC MULTIPLE SOCKETS

TREND Series - SICURA Series

■ WITH LUMINOUS SWITCH - WITH LIGHTNING PROTECTION



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		2x 4x	1,5m	1mm ²	MAX 3.600W		165.20421.R	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 6



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		3x 6x	1,5m	1mm ²	MAX 3.600W		165.30421.R	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 9

■ WITH LUMINOUS SWITCH SAFETY SWITCH



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
10A		2x 4x	1,5m	0,75mm ²	MAX 2.300W		165.20441.N	10
		2x 4x	1,5m	0,75mm ²	MAX 2.300W		165.20441.R	10

With 1,5m H05VV-F (PVC) cable and plug.

SAFETY-SWITCH: Luminous switch with overload protection device.

No. of available outlets: 6

■ WITH LUMINOUS SWITCH AND USB SOCKET



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code		
16A		1x 2x	1,5m	1mm ²	MAX 3.600W		165.20431.N	10	
		1x 5V 2.1A							
		1x 2x	1,5m	1mm ²	MAX 3.600W		165.20431.R	10	
		1x 5V 2.1A							
			1x 2x	1,5m	1mm ²	MAX 3.600W		165.20431.ND	10
			1x 5V 2.1A						
		1x 2x	1,5m	1mm ²	MAX 3.600W		165.20431.RD	10	
		1x 5V 2.1A							

USB socket (Universal Serial Bus) for power supply of electronic devices (1,2A max).

With 1,5m H05VV-F (PVC) cable and plug.



SICURA Series

SICURA is a range of multiple sockets for domestic use with Italian standard P40 "pluristandard" socket outlets for maximum practicality. With or without switch, all the multiple units are equipped with a 1.5 m long cable. The version with 10 socket outlets has the particularity of having 4 side sockets.

technical sheet **p. 885**

■ WITHOUT LUMINOUS SWITCH



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A			1,5m	1mm ²	MAX 3.600W		161.40501.N	10
			1,5m	1mm ²	MAX 3.600W		161.40501.R	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 4



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A			1,5m	1mm ²	MAX 3.600W		161.60501.N	10
			1,5m	1mm ²	MAX 3.600W		161.60501.R	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 10



Italian standard S11
2P+E 10A



Italian standard S17
2P+E 16A



German standard
2P+E 16A



Italian standard P17/11
2P+E 16A



Italian standard P30
2P+E 16A







Pluristandard P40
2P+E 16A



USB







■ WITHOUT LUMINOUS SWITCH - WITHOUT CABLE AND PLUG



Current	Socket	Colour	Code	
16A	4x 		161.40500.N	10
	4x 		161.40500.R	10

No. of available outlets: 4








Current	Socket	Colour	Code	
16A	4x  6x 		161.60500.N	10
	4x  6x 		161.60500.R	10

No. of available outlets: 10

■ WITH LUMINOUS SWITCH










Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		4x 	1,5m	1mm ²	MAX 3.600W		161.40511.N	10
		4x 	1,5m	1mm ²	MAX 3.600W		161.40511.R	10

With 1,5m H05VV-F (PVC) cable and plug.
With luminous switch.

No. of available outlets: 4



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		4x  6x 	1,5m	1mm ²	MAX 3.600W		161.60511.N	10
		4x  6x 	1,5m	1mm ²	MAX 3.600W		161.60511.R	10

With 1,5m H05VV-F (PVC) cable and plug.
With luminous switch.

No. of available outlets: 10

■ WITH LUMINOUS SWITCH - WITH LIGHTNING PROTECTION



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		4x	1,5m	1mm ²	MAX 3.600W		161.40521.R	10

With lightning protection.
With 1,5m H05VV-F (PVC) cable and plug.
With luminous switch.

No. of available outlets: 4

■ WITH LUMINOUS SWITCH - WITHOUT CABLE AND PLUG



Current	Socket	Colour	Code	
16A	4x		161.40510.N	10
	4x		161.40510.R	10

With luminous switch.

No. of available outlets: 4



Current	Socket	Colour	Code	
16A	4x 6x		161.60510.N	10
	4x 6x		161.60510.R	10

With luminous switch.

No. of available outlets: 10



Italian standard S17
2P+E 16A



Italian standard P17/11
2P+E 16A



Pluristandard P40
2P+E 16A





BLUELINE Series

BLUELINE is a complete range of multiple sockets for domestic use in configurations from 3 up to 6 socket outlets in the main Italian Standards. Available with or without cable and light switch. Characterized by a modern, elegant and functional design, they are made of high-performance technopolymer. "Space saving" version are really practical, while the "lightning protection" versions are equipped with a surge protection device for extra safety of the connected devices. The offer is completed by desk versions with 3 or 4 sockets outlets, USB included.

technical sheet p. 884

■ WITHOUT LUMINOUS SWITCH (ITALIAN PLUG)



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A			1,5m	1mm ²	MAX 3.600W		160.220/C	10
			1,5m	1mm ²	MAX 3.600W		160.220/C-N	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 3



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
10A			1,5m	0,75mm ²	MAX 2.300W		160.219/C	10
			1,5m	0,75mm ²	MAX 2.300W		160.219/C-N	10
16A			1,5m	1mm ²	MAX 3.600W		160.223/C	10
			1,5m	1mm ²	MAX 3.600W		160.223/C-N	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 4



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
10A			1,5m	0,75mm ²	MAX 2.300W		160.224/C	10
			1,5m	0,75mm ²	MAX 2.300W		160.224/C-N	10
16A			1,5m	1mm ²	MAX 3.600W		160.231/C	10
			1,5m	1mm ²	MAX 3.600W		160.231/C-N	10
			1,5m	1mm ²	MAX 3.600W		160.225/C	10
			1,5m	1mm ²	MAX 3.600W		160.225/C-N	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 6

■ WITHOUT LUMINOUS SWITCH - SPACE SAVER



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
10A		4x	1,5m	0,75mm ²	MAX 2.300W		160.260/C	6/48
		4x	1,5m	0,75mm ²	MAX 2.300W		160.260/C-N	6/48
16A		4x	1,5m	1mm ²	MAX 3.600W		160.261/C	6/48
		4x	1,5m	1mm ²	MAX 3.600W		160.261/C-N	6/48

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 4

■ WITHOUT LUMINOUS SWITCH (EUROPEAN PLUG)



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		4x	1,5m	1mm ²	MAX 3.600W		160.241/C	10
		4x	1,5m	1mm ²	MAX 3.600W		160.241/C-N	10
		4x	1,5m	1mm ²	MAX 3.600W		160.247/C	10

With 1,5m H05VV-F (PVC) cable and plug.

No. of available outlets: 4



Italian standard S11
2P+E 10A



Italian standard S17
2P+E 16A



French/German standard
2P+E 16A



German standard
2P+E 16A



Italian standard P11
2P+E 10A



Italian standard P17/11
2P+E 16A



Italian standard P30
2P+E 16A



German standard
2P+E 16A



French standard
2P+E 16A

■ WITHOUT LUMINOUS SWITCH - WITHOUT CABLE AND PLUG



Current	Socket	Colour	Code	
16A	3x		160.220	10/100
	3x		160.220/N	10/100

No. of available outlets: 3



Current	Socket	Colour	Code	
16A	4x		160.223	10/100
	4x		160.223/N	10/100
	4x		160.241	10/50
	4x		160.241/N	10/50
	4x		160.247	10/50
	4x		160.247/N	10/50

No. of available outlets: 4



Current	Socket	Colour	Code	
10A	6x		160.224	10/120
	6x		160.224/N	10/120
16A	3x 3x		160.231	10/40
	3x 3x		160.231/N	10/40
	6x		160.225	10/120
	6x		160.225/N	10/120

No. of available outlets: 6

■ WITHOUT LUMINOUS SWITCH - SPACE SAVER - WITHOUT CABLE AND PLUG



Current	Socket	Colour	Code	
10A	4x		160.260	10/100
	4x		160.260/N	10/100
16A	4x		160.261	10/100
	4x		160.261/N	10/100

No. of available outlets: 4

WITH LUMINOUS SWITCH



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
10A		4x	1,5m	0,75mm ²	MAX 2.300W		160.251/C	10
		4x	1,5m	0,75mm ²	MAX 2.300W		160.251/C-N	10
16A		4x	1,5m	1mm ²	MAX 3.600W		160.252/C	10
		4x	1,5m	1mm ²	MAX 3.600W		160.252/C-N	10

With 1,5m H05VV-F (PVC) cable and plug.
With luminous switch.

No. of available outlets: 4



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		3x 3x	1,5m	1mm ²	MAX 3.600W		160.230/C	10
		3x 3x	1,5m	1mm ²	MAX 3.600W		160.230/C-N	10
		6x	1,5m	1mm ²	MAX 3.600W		160.229/C	10
		6x	1,5m	1mm ²	MAX 3.600W		160.229/C-N	10
		3x 3x	1,5m	1mm ²	MAX 3.600W		160.230/D	10
		3x 3x	1,5m	1mm ²	MAX 3.600W		160.230/D-N	10

With 1,5m H05VV-F (PVC) cable and plug.
With luminous switch.

No. of available outlets: 6

WITH LUMINOUS SWITCH - WITH LIGHTNING PROTECTION



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		3x 3x	1,5m	1mm ²	MAX 3.600W		160.233/C	10
		6x	1,5m	1mm ²	MAX 3.600W		160.232/C	10

With lightning protection.
With 1,5m H05VV-F (PVC) cable and plug.
With luminous switch.

No. of available outlets: 6



Italian standard S11
2P+E 10A



Italian standard S17
2P+E 16A



German standard
2P+E 16A



Italian standard P11
2P+E 10A



Italian standard P17/11
2P+E 16A



Italian standard P30
2P+E 16A



French standard
2P+E 16A



■ WITH LUMINOUS SWITCH - WITHOUT CABLE AND PLUG



Current	Socket	Colour	Code	
16A	4x		160.248	10/50
	4x		160.248/N	10/50

With luminous switch.

No. of available outlets: 4



Current	Socket	Colour	Code	
16A	3x 3x		160.230	10/40
	3x 3x		160.230/N	10/40
	6x		160.229	10/100
	6x		160.229/N	10/100

With luminous switch.

No. of available outlets: 6



Italian standard S17
2P+E 16A



Italian standard P17/11
2P+E 16A



Italian standard P30
2P+E 16A



Pluristandard P40
2P+E 16A



French standard P40
2P+E 16A



USB

DESK MULTI SOCKETS



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		1x 2x	2m	1mm ²	MAX 3.600W		160.5013 ¹⁾	6/24
		1x 2x	2m	1mm ²	MAX 3.600W		160.5014 ¹⁾	6/24

With 2m H05VV-F (PVC) 3x1mm² cable and plug 16A 2P+E.

¹⁾With luminous switch.

No. of available outlets: 3



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		2x 1x	2m	1mm ²	MAX 3.600W		160.5015	3/24
		1x 5V 2.1A						
16A		2x 1x	2m	1mm ²	MAX 3.600W		160.5016	3/24
		1x 5V 2.1A						

With 2m H05VV-F (PVC) 3x1mm² cable and plug 16A 2P+E.

¹⁾With luminous switch.

No. of available outlets: 4





QUICK Series





QUICK is a multiple socket with 4 German standard 16A sockets and light switch.

The socket body made of high-performance technopolymers and the wear-resistant rubber cable with French-German welded plug make it suitable for use even in harsh environments.

The covers of the sockets guarantee an IP44 degree of protection.

■ WITH LUMINOUS SWITCH



Current	Plug	Socket	Cable length	Cable section	Max power	Colour	Code	
16A		4x 	1,5m	1,5mm ²	MAX 3.500W		161.243/D	 12

No. of available outlets: 4



French/German
standard
2P+E 16A



German
standard
2P+E 16A

SPYROS Series

SPYROS is a series of spiraling extension cords for domestic use available in sizes of 3 and 5m.



■ EXTENSION CORD WITHOUT PLUG AND CONNECTOR



Description	Cable length	Cable section	Colour	Code	
EXTENSION CORD	3m	0,75mm ²		168.0072B-03	10
		0,75mm ²		168.0072N-03	10
		1mm ²		168.0073B-03	10
		1mm ²		168.0073N-03	10
	5m	1mm ²		168.0073B-05	10
		1mm ²		168.0073N-05	10

■ EXTENSION CORD WITH PLUG AND CONNECTOR



Description	Cable length	Cable section	Colour	Code	
EXTENSION CORD	3m	0,75mm ²		168.4272B-03	10
		0,75mm ²		168.4272N-03	10
		1mm ²		168.4273B-03	10
		1mm ²		168.4273N-03	10
	5m	1mm ²		168.4273B-05	10
		1mm ²		168.4273N-05	10







**DOMESTIC
CABLE REELS**



DOMESTIC CABLE REELS

TRIS SERIES

Domestic cable reels

p. 668



3.4 DOMESTIC CABLE REELS

TRIS Series



TRIS Series

TRIS is a range of cable reels available with cable length from 5 up to 20 m and different configurations of socket outlets in the main Italian and international standards. The TRIS series cable reels are equipped with integrated overload thermal switch which interrupts the power supply in case of overheating. Normal use is allowed only manually when the correct operating temperature is restored.

The comfortable handle, the grip of the cable reel and the solid footprint make the TRIS cable reels particularly ergonomic and safe to use.

technical sheet p. 887

■ TRIS P40 SERIES



Current	Plug	Socket	Cable length	Cable section	Wound cable power	Unwound cable power	Code	
16A		4x	5m	1,5mm ²	1200W	3200W	710.4005	1/6/12
16A		4x	10m	1,5mm ²	1200W	3200W	710.4010	1/3/6
16A		4x	15m	1,5mm ²	1200W	3200W	710.4015	1/3/6

After use rewind the cable carefully back into the reel.
With thermal overload switch.
The maximum power supply is shown on every single item.

■ TRIS 150 SERIES



Current	Plug	Socket	Cable length	Cable section	Wound cable power	Unwound cable power	Code	
10A		2x	5m	1mm ²	1200W	2200W	709.2505	1/12

After use rewind the cable carefully back into the reel.
With thermal overload switch.
The maximum power supply is shown on every single item.

■ TRIS 230 SERIES



Current	Plug	Socket	Cable length	Cable section	Wound cable power	Unwound cable power	Code	
16A		1x 2x	20m	1,5mm ²	1200W	3200W	709.4720	1/6
16A		2x	20m	1,5mm ²	1200W	3200W	709.4620	1/6
16A		4x	20m	1,5mm ²	1200W	3200W	709.4320	1/6
16A		4x	20m	1,5mm ²	1200W	3200W	709.4920	1/6
16A		4x	20m	1,5mm ²	1200W	3200W	709.4820	1/6

After use rewind the cable carefully back into the reel.
With thermal overload switch.
The maximum power supply is shown on every single item.

Applications examples



Italian
standard S11
2P+E 10A



Italian
standard S17
2P+E 16A



French/German
standard
2P+E 16A



Italian
standard P11
2P+E 10A



Italian
standard P17/11
2P+E 16A



Italian
standard P30
2P+E 16A



Pluristandard
P40
2P+E 16A



German
standard
2P+E 16A



French
standard
2P+E 16A





**LAMPHOLDERS AND
CHAMFER SWITCHES**





LAMP HOLDERS AND CHAMFER SWITCHES

LUX SERIES - LAMP HOLDERS p. 674

Lamp holders



LUX SERIES - CEILING p. 679

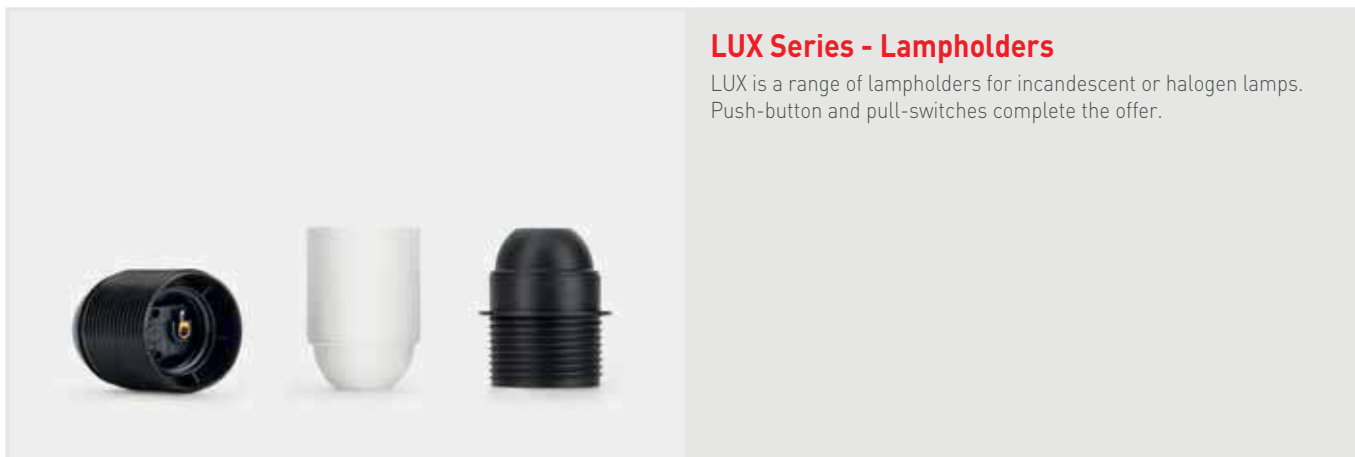
Ceiling pendels



LUX SERIES - SWITCHES p. 680

Switches





LUX Series - Lampholders

LUX is a range of lampholders for incandescent or halogen lamps. Push-button and pull-switches complete the offer.

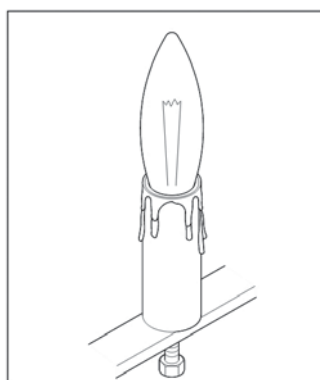
technical sheet p. 888

■ FOR INCANDESCENT LAMPS >> PLASTIC CANDLES



Description	Lamp holder	Dimensions	Fixing	Material	Colour	Code	
CANDLE DRIP COVER	E14	h65mm		THERMOPLASTIC		190.CP70B	50/300
		h65mm		THERMOPLASTIC		190.CP70A	50/300
		h85mm		THERMOPLASTIC		190.CP85B	50/300
		h85mm		THERMOPLASTIC		190.CP85A	50/300
CANDLE LAMP HOLDER	E14	h65mm	NIPPEL AND SCREW	THERMOPLASTIC		190.3570S¹⁾	50/500
		h65mm	PLASTIC THREAD M10x1mm	THERMOPLASTIC		190.3570ES¹⁾	50/500
		h85mm	NIPPEL AND SCREW	THERMOPLASTIC		190.3585S¹⁾	50/500
		h85mm	PLASTIC THREAD M10x1mm	THERMOPLASTIC		190.3585ES¹⁾	50/500

¹⁾ Metal bracket.



LUX Series
Fixing thread: M10x1mm.

■ FOR INCANDESCENT LAMPS >> PRE-WIRED LAMPHOLDERS - SKIRT SMOOTH



Description	Lamp holder	Lamp power	Material	Colour	Code	
LAMPHOLDER	E27	MAX 75W	THERMOPLASTIC		190.6000PN	20/200

Equipped with 15cm bipolar flat cable, type H03VVH2-F 2x0.75 mm² and bipolar terminal.
With plastic hook for suspension.

■ FOR INCANDESCENT LAMPS >> LAMPHOLDERS - SKIRT SMOOTH



Description	Lamp holder	Cap	Material	Colour	Code	
LAMPHOLDER	E14	THREADED METAL ENTRY	THERMOPLASTIC		190.2000LNB	100/600
		THREADED METAL ENTRY	THERMOPLASTIC		190.2000LN	100/600
		THREADED PLASTIC ENTRY	THERMOPLASTIC		190.2000LGB	100/600
		THREADED PLASTIC ENTRY	THERMOPLASTIC		190.2000LG	100/600
	E27	THREADED METAL ENTRY	THERMOPLASTIC		190.6000LNB	50/300
		THREADED METAL ENTRY	THERMOPLASTIC		190.6000LN	50/300
		THREADED PLASTIC ENTRY	THERMOPLASTIC		190.6000LGB	50/300
		THREADED PLASTIC ENTRY	THERMOPLASTIC		190.6000LG	50/300

Cable 2.5mm² (max).
Entry: M10 x 1.

■ FOR INCANDESCENT LAMPS >> LAMPHOLDERS - SKIRT THREADED



Description	Lamp holder	Cap	Material	Colour	Code	
LAMPHOLDER	E14	THREADED METAL ENTRY	THERMOPLASTIC		190.2000FNB	100/600
		THREADED METAL ENTRY	THERMOPLASTIC		190.2000FN	100/600
		THREADED PLASTIC ENTRY	THERMOPLASTIC		190.2000FGB	100/600
		THREADED PLASTIC ENTRY	THERMOPLASTIC		190.2000FG	100/600
	E27	THREADED METAL ENTRY	THERMOPLASTIC		190.6000FNB	50/300
		THREADED METAL ENTRY	THERMOPLASTIC		190.6000FN	50/300
		THREADED PLASTIC ENTRY	THERMOPLASTIC		190.6000FGB	50/300
		THREADED PLASTIC ENTRY	THERMOPLASTIC		190.6000FG	50/300

Cable 2.5mm² (max).
Entry: M10 x 1.



■ FOR INCANDESCENT LAMPS >> LAMP HOLDERS - SKIRT PARTIALLY THREADED



Description	Lamp holder	Cap	Material	Colour	Code	
LAMP HOLDER	E14	THREADED METAL ENTRY	THERMOPLASTIC		190.2000FCNB	100/600
		THREADED METAL ENTRY	THERMOPLASTIC		190.2000FCN	100/600
		THREADED PLASTIC ENTRY	THERMOPLASTIC		190.2000FCGB	100/600
		THREADED PLASTIC ENTRY	THERMOPLASTIC		190.2000FCG	100/600
	E27	THREADED METAL ENTRY	THERMOPLASTIC		190.6000FCNB	50/300
		THREADED METAL ENTRY	THERMOPLASTIC		190.6000FCN	50/300
		THREADED PLASTIC ENTRY	THERMOPLASTIC		190.6000FCGB	50/300
		THREADED PLASTIC ENTRY	THERMOPLASTIC		190.6000FCG	50/300

Cable 2.5mm² (max).
Entry: M10 x 1.

■ FOR INCANDESCENT LAMPS >> SHADE RING



Description	Lamp holder	Dimensions	Material	Colour	Code	
SHADE RING	E14	ø43x15mm	THERMOPLASTIC		190.31B	50/500
		ø43x15mm	THERMOPLASTIC		190.31	50/500
		ø43x8,5mm	THERMOPLASTIC		190.147B	50/500
	E27	ø48x8mm	THERMOPLASTIC		190.71B	50/500
		ø48x8mm	THERMOPLASTIC		190.71	50/500
		ø58x13mm	THERMOPLASTIC		190.73B	50/500
		ø58x13mm	THERMOPLASTIC		190.73N	50/500
		ø65x12mm	THERMOPLASTIC		190.74B	50/500
		ø65x12mm	THERMOPLASTIC		190.74N	50/500

To be used with threaded skirt lampholders.
Lampshade holding ring.

■ FOR INCANDESCENT LAMPS >> LAMP HOLDER - SPECIAL T210°C



Description	Lamp holder	Fixing	Material	Colour	Code	
LAMP HOLDER	E27	INTERNAL WITH EARTH SCREW	THERMOPLASTIC		190.5778/311T	20/200
		EXTERNAL WITH EARTH SCREW	THERMOPLASTIC		190.5778/313T	20/200

Cable: 4mm² (max).
2 holes for screw fixing.

■ FOR INCANDESCENT LAMPS >> LAMP HOLDERS - BRASS PLATED METAL



Description	Lamp holder	Dimensions	Cap	Material	Colour	Code	
SHADE RING	E27	ø58,5x15mm		BRASS PLATED METAL		190.81 ^{2) 3)}	50/500
LAMP HOLDER	E27		THREADED METAL ENTRY	BRASS PLATED METAL		190.8200 ^{1) 4)}	50/300
			THREADED METAL ENTRY AND EARTH	BRASS PLATED METAL		190.8200T ^{1) 4)}	50/300

¹⁾ Entry: M10 x 1.

²⁾ To be used with threaded skirt lampholders.

³⁾ Lampshade holding ring.

⁴⁾ With locking screw.

■ FOR INCANDESCENT LAMPS >> LAMP HOLDER - SPECIAL T300°C



Description	Lamp holder	Material	Colour	Code	
LAMP HOLDER	E40	CERAMIC		190.5740B1	10

Cable section 1.5-4mm².

Unscrewing brake.

■ FOR INCANDESCENT LAMPS >> SURFACE MOUNTING LAMP HOLDER



Description	Lamp holder	Lamp power	Material	Colour	Code	
LAMP HOLDER	E27	60W	THERMOPLASTIC		190.100	10

Total insulation e class II.

Surface mounting.

Suitable for being installed on usually flammable surface.

■ FOR HALOGEN LAMPS >> FOR LOW VOLTAGE HALOGEN LAMPS



Description	Dimensions	Material	Colour	Code	
LAMP HOLDER	ø17X10,2mm	THERMOSETTING		191.5031	100/1.000

Type of coupling: G4/GZ4/GX5.3/GY6.35.

Cable: Teflon-Fep 150mm.



Made of steatite.

Push-in terminals.



■ FOR HALOGEN LAMPS >> FOR HALOGEN LAMPS - WITH BRACKET





Description	Dimensions	Material	Colour	Code	
LAMP HOLDER	140mm	THERMOSETTING		191.5122	20/200

Made of steatite.
 Type of coupling: R7s.
 Cable: Teflon-Fep 200mm.
 Profiled.
 Bracket with central hole and slots.

■ FOR HALOGEN LAMPS >> FOR HALOGEN LAMPS



Description	Dimensions	Material	Colour	Code	
LAMP HOLDER	∅19x24,8mm	METAL		191.5124	50/500

Cable: Teflon-Fep 200mm.
 Type of coupling: R7s/RX7s/RX7s-24/RX7s-26/RX7s-32.
 With fixing nut: M14 x 1.
 Made of aluminium and steatite.

LUX Series - Ceiling

LUX is a range of lampholders for incandescent or halogen lamps. Push-button and pull-switches complete the offer.

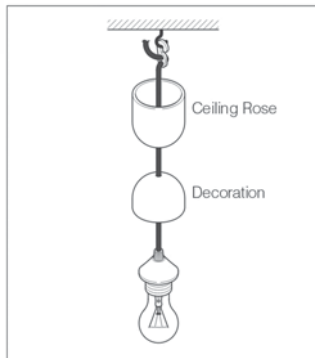


technical sheet p. 888

■ CEILING ROSE



Description	Material	Colour	Code	
CYLINDRICAL CUP	THERMOPLASTIC		190.363B	50/500
	THERMOPLASTIC		190.363N	50/500
SPHERICAL CUP	THERMOPLASTIC		190.376B	50/250
	THERMOPLASTIC		190.376N	50/250



LUX Series
Ceiling Rose + Decoration.





LUX Series - Switches

LUX is a range of lampholders for incandescent or halogen lamps. Push-button and pull-switches complete the offer.

technical sheet p. 888

■ PRESS SWITCHES



Description	Volt	Colour	Code	
PUSH BUTTON SWITCH	250		195.115B	100/1.000

Push-in terminals.
NTR 1119/IMQ.
Cable: 1mm² (max).
With locknut.

■ PULL SWITCHES



Description	Volt	Colour	Code	
PULL SWITCH	250		195.200B	20/200

Fixing Ø 3,2mm.
Single pole switch with cord and white handle grip.

■ SLIDE IN-LINE SWITCHES







Description	Dimensions	Volt	Colour	Code	
SLIDE SWITCH	60x26x15mm	250		195.450B	20/200
	60x26x15mm	250		195.450N	20/200
	60x26x15mm	250		195.450P	20/200

ASEV approved.
Screw closed cover.
Single pole switches.
With neutral connection for flat cable.
Cable: 0.75mm² (max).
Also for inductive current.

■ FOOT SWITCHES

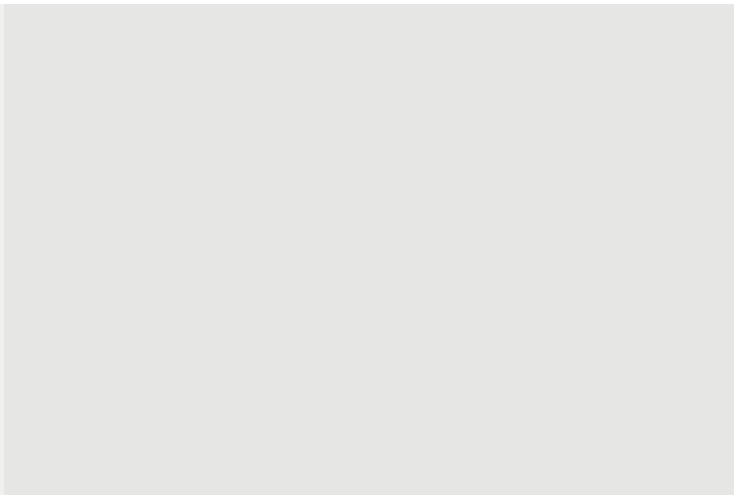


Description	Dimensions	Volt	Colour	Code	
FOOT SWITCH	ø65mm	250		195.565B	20/160
	ø65mm	250		195.565N	20/160
	ø65mm	250		195.565P	20/160

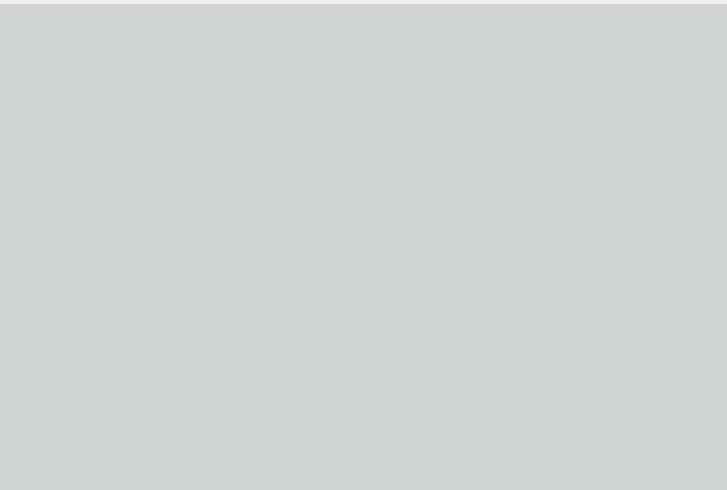
Cable: 0.75mm² (max).
 Also for inductive current.
 Clip together case.
 Single pole foot switch.
 With neutral and earth terminals.







TV/DATA





TV/DATA

DATATEL-TEL SERIES

p. 686

Components for telephone systems



DATATEL-DATA SERIES

p. 692

Components for data transmission



DATATEL-TV/SAT SERIES

p. 693

Components for TV and SAT systems



**DATATEL-TEL Series**

DATATEL-TEL is a range of plugs and sockets, couplers, duplicators, ADSL filters and cords for connecting telephone devices.

technical sheet p. 889

■ ITALIAN STANDARD >> FIXED TELEPHONE SOCKETS



Description	Plug	Installation	Colour	Code	
SOCKET	3P	FLUSH/SURFACE MOUNTING		180.584	12/60
SOCKET	3P	FLUSH/SURFACE MOUNTING		180.585 ¹⁾	12/60

Italian telephone standard.

¹⁾ Type-approval by Italian Ministry of Communications.

■ ITALIAN STANDARD >> LINE DUPLICATORS - ADAPTERS

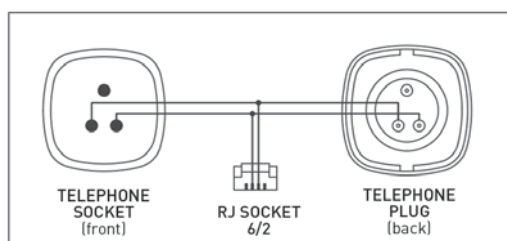


Description	Plug	Cable entry	Colour	Code	
LINE DUPLICATOR				180.572	24



Description	Plug	Cable entry	Colour	Code	
LINE DUPLICATOR	3P	PLUG 6/2		180.710	12/60

"Parallel" type - Diagram B.

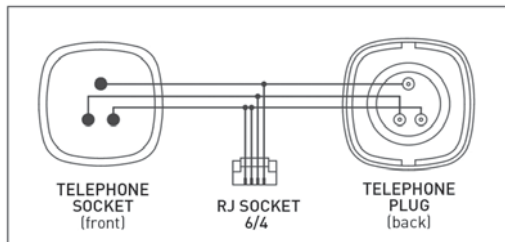


DATATEL Series
"Parallel" type - Diagram B.



Description	Plug	Cable entry	Colour	Code	
LINE DUPLICATOR	3P	PLUG 6/4		180.711	12/60

"Series" type - Diagram A.

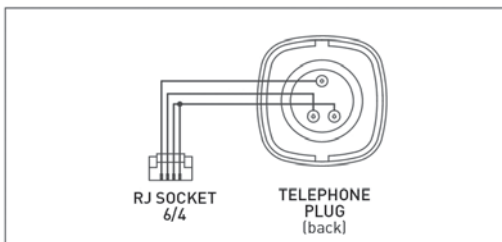


DATATEL Series
"Series" type - Diagram A.



Description	Plug	Cable entry	Colour	Code	
LINE DUPLICATOR	3P	PLUG 6/4		180.715	12/60

"Series" type - Diagram D.



DATATEL Series
"Series" type - Diagram D.

■ PLUG STANDARD >> MOBILE PLUGS



Description	Plug	Installation	Colour	Code	
PLUG	PLUG 4/4	PORTABLE		180.790	100/1.000
	PLUG 6/4	PORTABLE		180.791	100/1.000
	PLUG 6/6	PORTABLE		180.792	100/1.000
	PLUG 10/10	PORTABLE		180.793	100/1.000

To be wired using the specially designed plug pincers.



■ PLUG STANDARD >> FIXED TELEPHONE SOCKETS



Description	Installation	Socket	Colour	Code	
SOCKET	SURFACE MOUNTING	1xPLUG 6/4		180.701	12/60



Description	Installation	Socket	Colour	Code	
SOCKET	SURFACE MOUNTING	1xPLUG 6/6		180.702	12/60



Description	Installation	Socket	Colour	Code	
SOCKET	FLUSH/SURFACE MOUNTING	1xPLUG 6/4		180.705	12/60



Description	Installation	Socket	Colour	Code	
SOCKET	FLUSH/SURFACE MOUNTING	2xPLUG 6/4		180.706	12/60

■ PLUG STANDARD >> RJ PLUG COUPLERS



Description	Plug	Colour	Code	
COUPLER	PLUG 6/4		180.794	12/60
	PLUG 6/6		180.795	12/60
	PLUG 8/8		180.7951	60

Suitable for connecting 2 cords with RJ plugs.

■ PLUG STANDARD >> MULTIPLIER RJ PLUG



Description	Plug	Colour	Code	
DUPLICATOR	PLUG 6/4		180.796	12/60

Doubles the connection capacity, allowing another appliance to be connected (eg. telephone + modem).



Description	Plug	Colour	Code	
TRIPLICATOR	PLUG 6/4		180.799	12/60

Doubles the connection capacity, allowing another appliance to be connected (eg. telephone + modem).

■ PLUG STANDARD >> PLUG PINCERS



Description	Dimensions	Material	Code	
PLUG PINCERS	4/4-6/6-8/8	THERMOPLASTIC	180.7971	1/10

Suitable for wiring the RJ plugs.






Description	Dimensions	Material	Code	
PLUG PINCERS	4/4-6/6-8/8	METAL	180.798	1/10

Suitable for wiring the RJ plugs.








■ PLUG STANDARD >> STRAIGHT TELEPHONE CORDS WITH RJ PLUGS



Description	Plug	Cable length	Colour	Code	
TELEPHONE CORD	PLUG 6/4	2m		180.724	12/60
	PLUG 6/4	2m		180.725	12/60

■ PLUG STANDARD >> EXTENDABLE TELEPHONE CORDS WITH RJ PLUGS





Description	Plug	Cable length	Colour	Code	
TELEPHONE CORD	PLUG 4/4	2m		180.741	12/60
	PLUG 4/4	2m		180.742	12/60
	PLUG 4/4	4,8m		180.743	12/60
	PLUG 4/4	4,8m		180.744	12/60


Plug with gold-plated contacts.

■ COMPONENTS FOR TELEPHONE INSTALLATIONS >> FLUSH MOUNTING BOX



Description	Dimensions	Material	Colour	Code	
COVER	83,5mm	THERMOPLASTIC		180.692	12/72









Description	Dimensions	Material	Colour	Code	
SURFACE MOUNTING BOX	83,5mm	THERMOPLASTIC		180.690	12/72



Description	Dimensions	Material	Colour	Code	
COVER PRESSURE	83,5mm	THERMOPLASTIC		180.691	12/72

■ COMPONENTS FOR TELEPHONE INSTALLATIONS >> FLAT TELEPHONE CABLE (1 METER)





Description	Poles	Cable length	Colour	Code	
FLAT TELEPHONE CABLE	4P	100m		180.921	100/800
	4P	100m		180.920	100/800
	6P	100m		180.931	100/1.000
	6P	100m		180.930	100/1.000
	8P	100m		180.940	100/1.000



In coils of 100m.
Suitable for RJ connectors.
Not shuttered.

■ COMPONENTS FOR TELEPHONE INSTALLATIONS >> COMMUTATORS



Description	Colour	Code	
LINE DUPLICATOR		180.572	24



Description	Colour	Code	
LINE DUPLICATOR		180.573	24






DATATEL-DATA Series

DATATEL-DATA is a range of category 5e and 6 UTP and FTP plugs, standard or pass-through.

 technical sheet p. 889

■ FREE MODULAR PLUGS FOR FLEXIBLE CABLE



Description	Plug	Type	Notes	Code	
SHELL				180.800	100/1.000
SHIELDED PLUG	CAT. 5e FTP	SHIELDED TYPE		180.813	100/1.000
	CAT. 5e FTP	SHIELDED TYPE+INSERT		180.814	100/1.000
UNSHIELDED PLUG	CAT. 5e UTP	UNSHIELDED TYPE	PASS THROUGH	180.811P	100/1.000
	CAT. 5e UTP	UNSHIELDED TYPE		180.811	100/1.000
	CAT. 5e UTP	UNSHIELDED TYPE+INSERT		180.812	100/1.000
	CAT. 6 UTP	UNSHIELDED TYPE	PASS THROUGH	180.815P	100/1.000
	CAT. 6 UTP	UNSHIELDED TYPE		180.815	100/1.000
	CAT. 3	UNSHIELDED TYPE		180.810	100/1.000

DATATEL-TV/SAT Series

DATATEL-TV / SAT is a range of TV / SAT plugs, sockets, coupler and TV extensions cables for connecting the television to the aerial and satellite dish system.



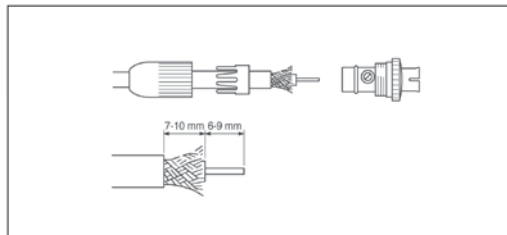
technical sheet p. 890

■ FOR SIGNALS UP TO 2400 MHZ >> PLUGS AND SOCKETS Ø9,5MM



Description	Type	Diameter	Colour	Code	
CONNECTOR	STRAIGHT	ø9,5mm		180.5520	50

Impedance: 75Ω.
For antenna system.
For signals up to 2,400 Mhz.

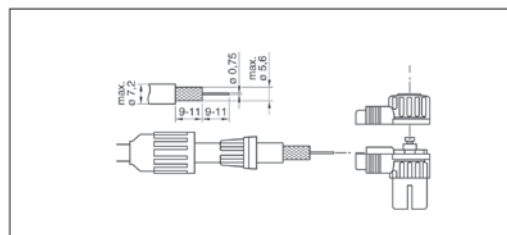


DATATEL-TV/SAT Series
PLUGS AND SOCKETS Ø 9,5mm (straight).
Wiring instructions.



Description	Type	Diameter	Colour	Code	
CONNECTOR	90° ANGLED	ø9,5mm		180.5521	50

Impedance: 75Ω.
For antenna system.
For signals up to 2,400 Mhz.



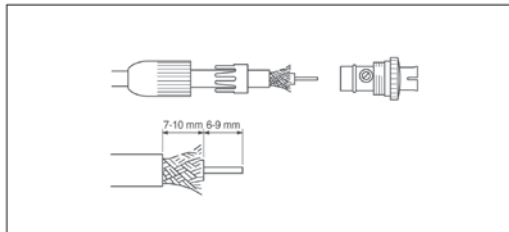
DATATEL-TV/SAT Series
PLUGS AND SOCKETS Ø 9,5mm (90°).
Wiring instructions.





Description	Type	Diameter	Colour	Code	
PLUG	STRAIGHT	ø9,5mm		180.5510	50

Impedance: 75Ω.
For antenna system.
For signals up to 2,400 Mhz.

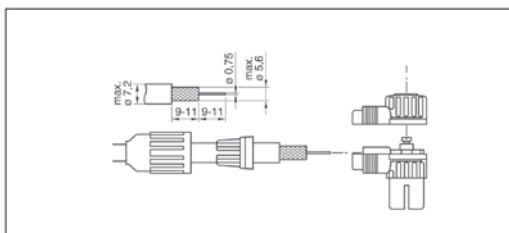


DATATEL-TV/SAT Series
PLUGS AND SOCKETS Ø 9,5mm (straight).
Wiring instructions.



Description	Type	Diameter	Colour	Code	
PLUG	90° ANGLED	ø9,5mm		180.5511	50

Impedance: 75Ω.
For antenna system.
For signals up to 2,400 Mhz.



DATATEL-TV/SAT Series
PLUGS AND SOCKETS Ø 9,5mm (90°).
Wiring instructions.

■ FOR SIGNALS UP TO 2400 MHZ >> CONNECTOR



Description	Type	Code	
COUPLER	OUTLET TO OUTLET CONNECTOR	180.5640	10/100

Impedance: 75Ω.
For antenna system.
For signals up to 2,400 Mhz.
Also suitable to connect old systems with new CEI EN 50083 systems.



Description	Type	Code	
COUPLER	PLUG TO PLUG CONNECTOR	180.5641	10/100

Impedance: 75Ω.
For antenna system.
For signals up to 2,400 Mhz.
Also suitable to connect old systems with new CEI EN 50083 systems.

■ FOR SIGNALS UP TO 2400 MHZ >> ACCESSORIES FOR TELEVISION SYSTEM WITH SATELLITE RECEIVER



Description	Type	Diameter	Code	
SCREW F-CONNECTOR	STANDARD LID	ø5,2mm	180.4521	10/100/1.600

Impedance: 75Ω.
For antenna system.
For signals up to 2,400 Mhz.



Description	Type	Diameter	Code	
SCREW F-CONNECTOR	STANDARD LID	ø7mm	180.4701	10/100/1.600

Impedance: 75Ω.
For antenna system.
For signals up to 2,400 Mhz.





TV/DATA

DATATEL-TV/SAT Series

■ FOR SIGNALS UP TO 862 MHZ >> ANGLED PLUGS





Description	Type	Diameter	Colour	Code	
PLUG	90° ANGLED	ø9,5mm		180.58/CEI	200/2.000

90° angled coaxial cable exit.



■ FOR SIGNALS UP TO 862 MHZ >> CABLE CONNECTORS



Description	Type	Diameter	Colour	Code	
CONNECTOR	STRAIGHT	ø9,5mm		180.60/CEI-P	200/2.000



Straight coaxial.



Description	Type	Diameter	Colour	Code	
PLUG	STRAIGHT	ø9,5mm		180.60/CEI-S	200/2.000

Straight coaxial.



Description	Type	Diameter	Colour	Code	
PLUG/SOCKET	STRAIGHT	ø9,5mm		180.60/CEI	200/2.000

Straight coaxial.

■ FOR SIGNALS UP TO 862 MHZ >> COAXIAL TV CABLE DIVIDER



Description	Type	Diameter	Colour	Code	
SPLITTER	1 SOCKET + 2 PLUGS	ø9,5mm		180.563	10/50

2 resistive side outlets.



Description	Type	Diameter	Colour	Code	
SPLITTER	1 PLUG + 2 SOCKETS	ø9,5mm		180.561	10/50/500

2 inductive side outlets.

■ TV EXTENSION CORDS (STRAIGHT-ANGLED)



Description	Cable length	Notes	Colour	Code	
TV EXTENSION CORD 9.5mm	2m	+ ADAPTOR		180.5902	15
	2m	+ ADAPTOR		180.5902/N	15

Plug-to-plug coaxial adapter included.

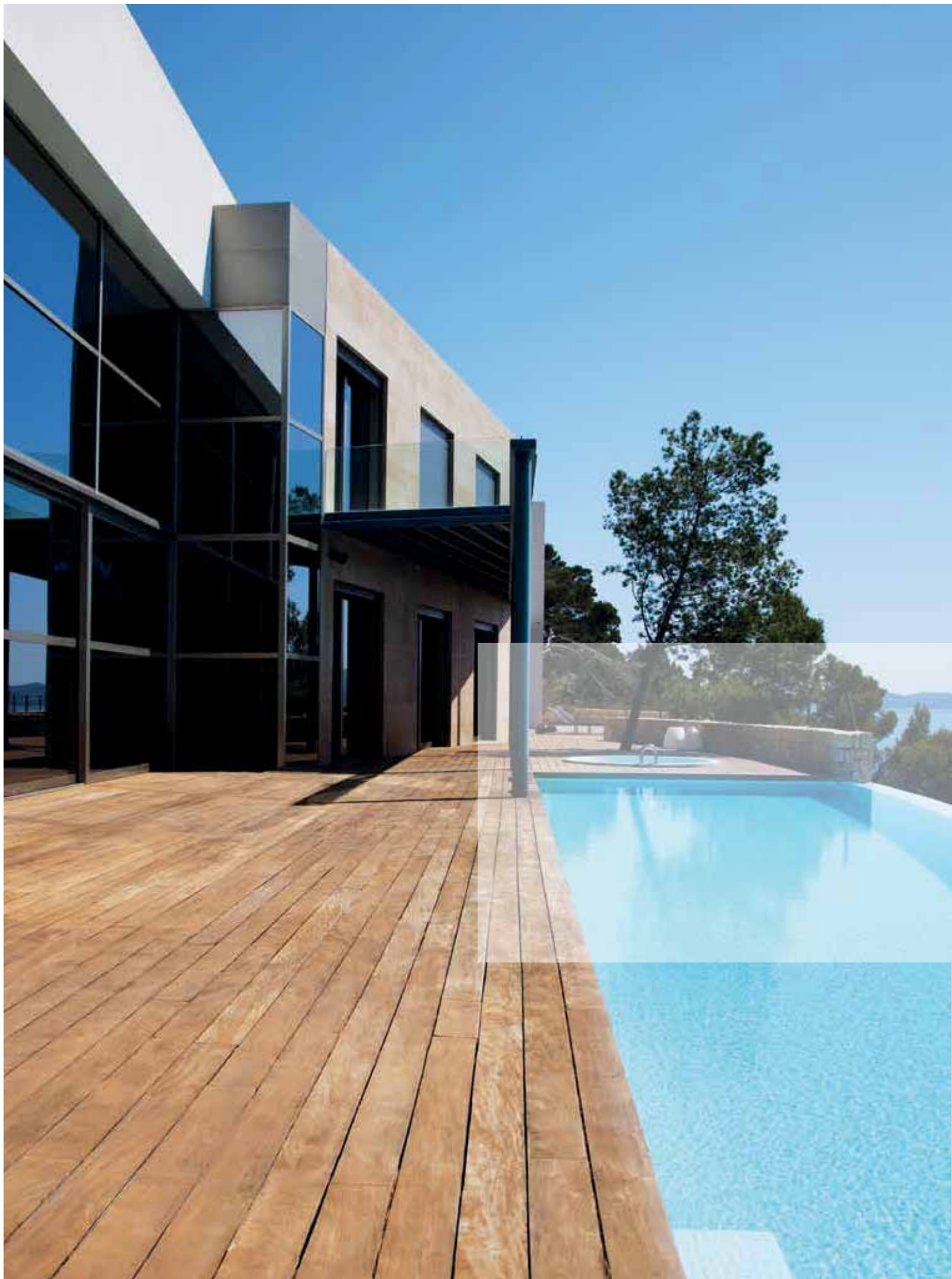
■ TV EXTENSION CORDS (STRAIGHT-STRAIGHT)



Description	Cable length	Notes	Colour	Code	
TV EXTENSION CORD 9.5mm	2m	+ ADAPTOR		180.5912	15
	3m	+ ADAPTOR		180.5913	10
	5m	+ ADAPTOR		180.5915	7

Plug-to-plug coaxial adapter included.







WIRING DEVICES





WIRING DEVICES

PROTECTA SERIES

p. 702

Control devices and socket outlets watertight IP66 with plug inserted



UNIBOX[+EVOLUTION] SERIES

p. 713

Modular enclosures for domestic switches and socket outlets



EVOLUTION SERIES

p. 718

Flush mounting Italian Standard modular wiring devices






PROTECTA Series

PROTECTA is a complete range of switches and domestic socket outlets IP66 with plug inserted, sturdy and resistant to UV rays thanks to the use of high-strength technopolymers. The electrical socket outlets are available in the main Italian and International standards. All PROTECTA series devices are available for surface, flush or pole mounting.

Ideal for installations in gardens and other places with the presence of water and dust, as well as in the tertiary sector and in light industry.

 technical sheet p. 894

Technical information

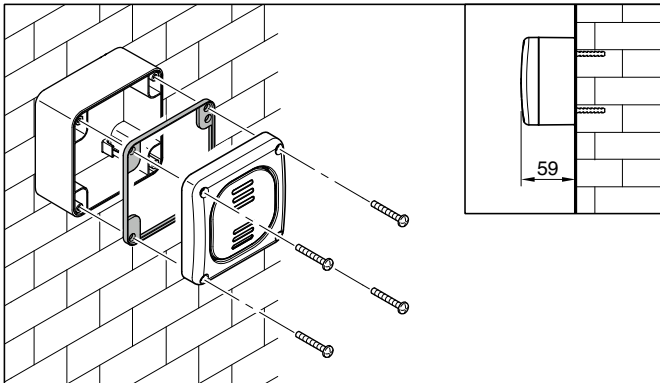
Main characteristics control devices



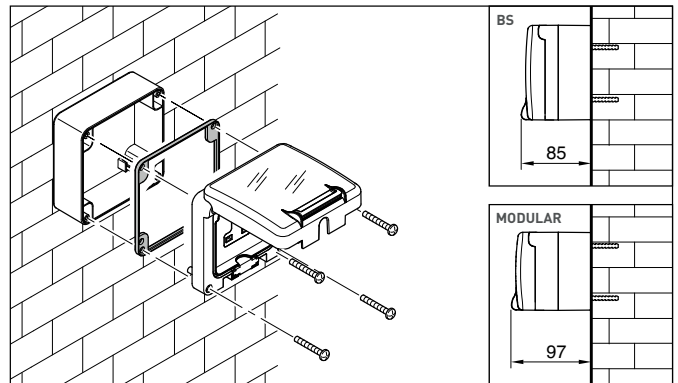
- | | |
|--|---|
| 01 Status light indicator | 06 Body in polycarbonate resistant to impacts, chemical agents and UV rays |
| 02 Light locator frame (LEDs optional, not included) | 07 Captive stainless steel closing screws |
| 03 Integrated external fixing points | 08 Blank sides with drilling point marks |
| 04 XXL rocker to ensure operability in any situation | |
| 05 Under rocker gasket to guarantee IP66 degree in use conditions | |

Methods of installation

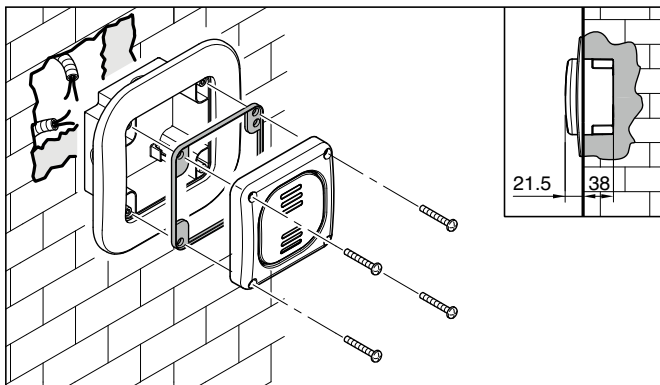
Surface mounting - Control devices



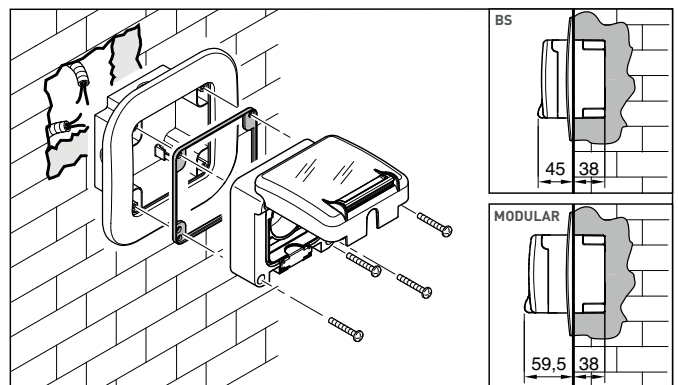
Surface mounting - Socket outlets



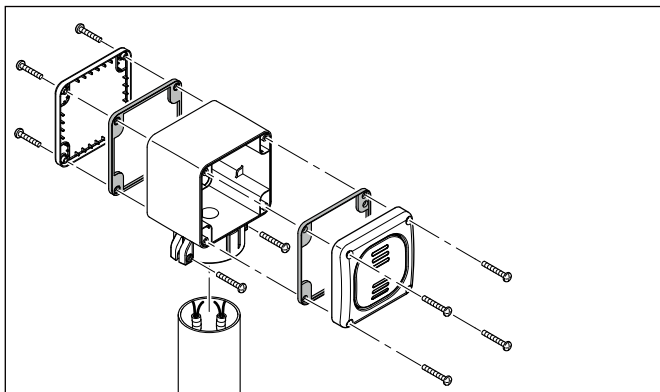
Flush mounting - Control devices



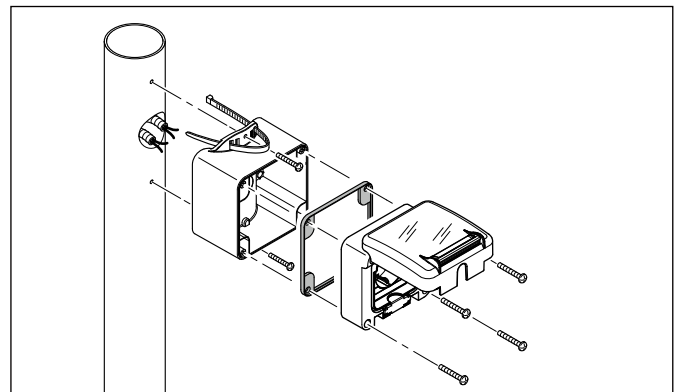
Flush mounting - Socket outlets



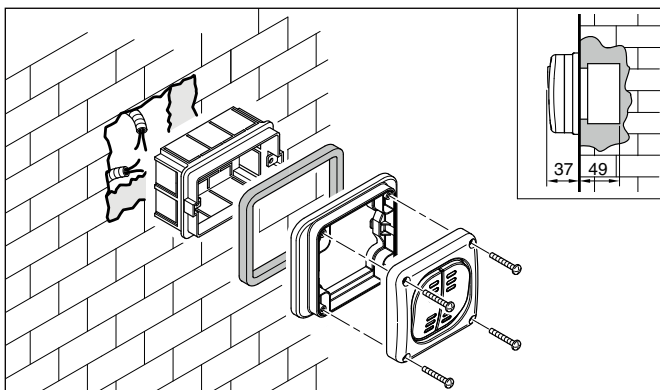
Top-pole mounting



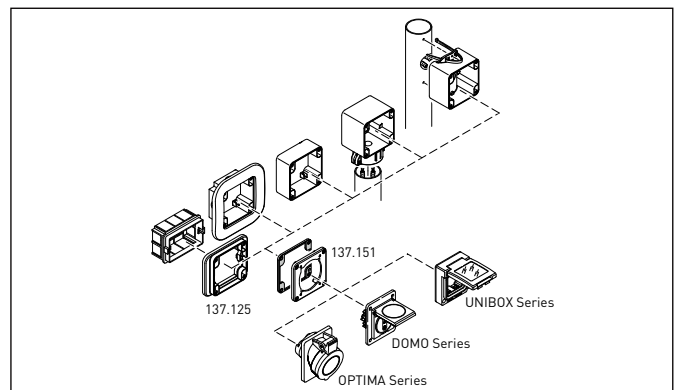
Side-by-side pole mounting



M95 flange adaptor for 503 flush mounting box



M95 Flange adaptor with 70x87mm cut-outs



Main characteristics

British Standard monobloc socket outlets



- 01** Tinted polycarbonate cover to view the inside
- 02** Captive stainless steel closing screws
- 03** Snap-on wing for cover opening and closing operations.
- 04** Double pole switches

- 05** Cable sleeve gaskets to maintain the IP66 degree of protection even with the plug inserted
- 06** Body in polycarbonate resistant to impacts, chemical agents and UV rays
- 07** Blank sides with drilling point marks
- 08** Integrated external fixing points

Applications examples



Main characteristics
international standards modular socket outlets




- 01** Tinted polycarbonate cover to view the inside
- 02** Snap-on wing for cover opening and closing operations
- 03** Availability of empty versions to be fitted with EVOLUTION Series modules
- 04** Cable sleeve gaskets to maintain the IP66 degree of protection even with the plug inserted
- 05** Body in polycarbonate resistant to impacts, chemical agents and UV rays
- 06** Blank sides with drilling point marks
- 07** Integrated external fixing points
- 08** Captive stainless steel closing screws




■ SURFACE MOUNTING - IP66 >> CONTROL DEVICES >> 1 GANG



Description	Current	Dimensions	Warning light	Code	
REVERSING SWITCH	10AX	M95(95x95mm)	WITH NEON	137.5111	12
	20AX	M95(95x95mm)	WITH NEON	137.5112	12
DP SWITCH	20A	M95(95x95mm)	WITH NEON	137.5462	12
SP BELL PUSH SWITCH "BELL"	10A	M95(95x95mm)	WITH NEON	137.5311B	12
SP BELL PUSH SWITCH "PRESS"	10A	M95(95x95mm)	WITH NEON	137.5311P	12
SP ONE WAY SWITCH	10AX	M95(95x95mm)	WITH NEON	137.5011	12
	20AX	M95(95x95mm)	WITH NEON	137.5012	12
SP TWO WAY SWITCH	10AX	M95(95x95mm)	WITH NEON	137.5211	12
	20AX	M95(95x95mm)	WITH NEON	137.5212	12


■ SURFACE MOUNTING - IP66 >> CONTROL DEVICES >> 2 GANG



Description	Current	Dimensions	Warning light	Code	
SP ONE WAY SWITCH	10AX	M95(95x95mm)	WITH NEON	137.5021	12
	20AX	M95(95x95mm)	WITH NEON	137.5022	12
SP TWO WAY SWITCH	10AX	M95(95x95mm)	WITH NEON	137.5221	12
	20AX	M95(95x95mm)	WITH NEON	137.5222	12
PUSH BUTTON SINGLE POLE 2 GANG	10A	M95(95x95mm)	WITH NEON	137.5321	12

■ SURFACE MOUNTING - IP66 >> SPUR UNITS



Description	Type	Current	Dimensions	Code	
SPUR UNIT	WITH FUSE AND SWITCH	13A	M115(115x115mm)	137.5410	12

■ SURFACE MOUNTING - IP66 >> MODULAR SOCKET OUTLETS



Description	Type	Current	Dimensions	Code	
RJ45 OUTLET			M95(95x95mm)	137.6481.60 ¹⁾	12
GERMAN STANDARD SOCKET		16A	M95(95x95mm)	137.6407	12
ITALIAN P30 STANDARD SOCKET		16A	M95(95x95mm)	137.6404	12
ITALIAN P40 STANDARD SOCKET		16A	M95(95x95mm)	137.6405	12
ITALIAN P17/11 STANDARD SOCKET		16A	M95(95x95mm)	137.6403	12
FRENCH STANDARD SOCKET		16A	M95(95x95mm)	137.6411	12
ARGENTINIAN STANDARD SOCKET		10A	M95(95x95mm)	137.6424	12
		20A	M95(95x95mm)	137.6426	12
NEOZELANDER STANDARD SOCKET		10A	M95(95x95mm)	137.6427	12
SWISS STANDARD SOCKET		10A	M95(95x95mm)	137.6417	12
BRAZILIAN STANDARD SOCKET		10A	M95(95x95mm)	137.6421	12

¹⁾ RJ45 - Cat. 6.

■ SURFACE MOUNTING - IP66 >> BS SOCKET OUTLETS



Description	Type	Current	Dimensions	Code	
13A SOCKET + 20A DP SWITCH		13A	M95x2(195x95mm)	137.6003	12
DOUBLE DP SWITCHSOCKET		13A	M195(195x115mm)	137.6042	12
DOUBLE DP SWITCHSOCKET WITH RCD		13A	M195(195x115mm)	137.6043 ¹⁾	12
DOUBLE UNSWITCHED SOCKET		13A	M95x2(195x95mm)	137.6002	12
SINGLE DP SWITCHSOCKET		13A	M115(115x115mm)	137.6022	12
SINGLE SP SWITCHSOCKET		15A	M115(115x115mm)	137.6111	12
SINGLE UNSWITCHED SOCKET		13A	M95(95x95mm)	137.6001	12

¹⁾ RCD protection (passive) I_{dn}=30mA.

French standard
2P+E 16A

German standard
2P+E 16A

Italian standard P17/11
2P+E 16A

Italian standard P30
2P+E 16A

Pluristandard
P40
2P+E 16A

British standard
2P+E 13A

British standard
2P+E 15A

Swiss standard
2P+E 10A

Argentinian standard
2P+E 10A

Brazilian standard
2P+E 10A

New Zealand standard
2P+E 10A



■ FLUSH MOUNTING - IP66 >> CONTROL DEVICES >> 1 GANG



Description	Current	Dimensions	Warning light	Code	
REVERSING SWITCH	10AX	M95(95x95mm)	WITH NEON	137.3111	12
	20AX	M95(95x95mm)	WITH NEON	137.3112	12
DP SWITCH	20A	M95(95x95mm)	WITH NEON	137.3462	12
SP BELL PUSH SWITCH "BELL"	10A	M95(95x95mm)	WITH NEON	137.3311B	12
SP BELL PUSH SWITCH "PRESS"	10A	M95(95x95mm)	WITH NEON	137.3311P	12
SP ONE WAY SWITCH	10AX	M95(95x95mm)	WITH NEON	137.3011	12
	20AX	M95(95x95mm)	WITH NEON	137.3012	12
SP TWO WAY SWITCH	10AX	M95(95x95mm)	WITH NEON	137.3211	12
	20AX	M95(95x95mm)	WITH NEON	137.3212	12

Flush mounting: box not included.

■ FLUSH MOUNTING - IP66 >> CONTROL DEVICES >> 2 GANG



Description	Current	Dimensions	Warning light	Code	
SP ONE WAY SWITCH	10AX	M95(95x95mm)	WITH NEON	137.3021	12
	20AX	M95(95x95mm)	WITH NEON	137.3022	12
SP TWO WAY SWITCH	10AX	M95(95x95mm)	WITH NEON	137.3221	12
	20AX	M95(95x95mm)	WITH NEON	137.3222	12
PUSH BUTTON SINGLE POLE 2 GANG	10A	M95(95x95mm)	WITH NEON	137.3321	12

Flush mounting: box not included.

■ FLUSH MOUNTING - IP66 >> SPUR UNITS



Description	Type	Current	Dimensions	Code	
SPUR UNIT	WITH FUSE AND SWITCH	13A	M115(115x115mm)	137.3410	12

Flush mounting: box not included.

FLUSH MOUNTING - IP66 >> MODULAR SOCKET OUTLETS



Description	Type	Current	Dimensions	Code	
RJ45 OUTLET			M95(95x95mm)	137.4481.60 ¹⁾	12
GERMAN STANDARD SOCKET		16A	M95(95x95mm)	137.4407	12
ITALIAN P30 STANDARD SOCKET		16A	M95(95x95mm)	137.4404	12
ITALIAN P40 STANDARD SOCKET		16A	M95(95x95mm)	137.4405	12
ITALIAN P17/11 STANDARD SOCKET		16A	M95(95x95mm)	137.4403	12
FRENCH STANDARD SOCKET		16A	M95(95x95mm)	137.4411	12
ARGENTINIAN STANDARD SOCKET		10A	M95(95x95mm)	137.4424	12
		20A	M95(95x95mm)	137.4426	12
NEOZELANDER STANDARD SOCKET		10A	M95(95x95mm)	137.4427	12
SWISS STANDARD SOCKET		10A	M95(95x95mm)	137.4417	12
BRAZILIAN STANDARD SOCKET		10A	M95(95x95mm)	137.4421	12

Flush mounting: box not included.

¹⁾RJ45 - Cat.6.

FLUSH MOUNTING - IP66 >> BS SOCKET OUTLETS



Description	Type	Current	Dimensions	Code	
13A SOCKET + 20A DP SWITCH		13A	M95x2(195x95mm)	137.4003 ³⁾	12
DOUBLE DP SWITCHSOCKET		13A	M195(195x115mm)	137.4042 ²⁾	12
DOUBLE DP SWITCHSOCKET WITH RCD		13A	M195(195x115mm)	137.4043 ^{1) 2)}	12
DOUBLE UNSWITCHED SOCKET		13A	M95x2(195x95mm)	137.4002 ³⁾	12
SINGLE DP SWITCHSOCKET		13A	M115(115x115mm)	137.4022 ²⁾	12
SINGLE SP SWITCHSOCKET		15A	M115(115x115mm)	137.4111 ²⁾	12
SINGLE UNSWITCHED SOCKET		13A	M95(95x95mm)	137.4001 ²⁾	12

¹⁾RCD protection (passive) I_{dn}=30mA.

²⁾Flush mounting: box not included.

³⁾Flush mounting: box included.



French standard
2P+E 16A



German standard
2P+E 16A



Italian standard P17/11
2P+E 16A



Italian standard P30
2P+E 16A



Pluristandard
P40
2P+E 16A



British standard
2P+E 13A



British standard
2P+E 15A



Swiss standard
2P+E 10A



Argentinian standard
2P+E 10A



Brazilian standard
2P+E 10A




New Zealand standard
2P+E 10A




■ FLUSH MOUNTING - IP66 >> FLUSH MOUNTING BOX




Description	Dimensions	Code	
FLUSH MOUNTING BOX	M115(115x115mm)	137.123	12




Description	Dimensions	Code	
FLUSH MOUNTING BOX	M195(195x115mm)	137.124	12




Description	Dimensions	Code	
FLUSH MOUNTING BOX	M95(95x95mm)	137.121	12




Description	Dimensions	Code	
FLUSH MOUNTING BOX	M95x2(195x95mm)	137.122	12

■ FLUSH MOUNTING - IP66 >> SURFACE MOUNTING BOX




Description	Dimensions	Code	
SURFACE MOUNTING BOX	M115(115x115mm)	137.103	12




Description	Dimensions	Code	
SURFACE MOUNTING BOX	M195(195x115mm)	137.104	12



Description	Dimensions	Code	
SURFACE MOUNTING BOX	M95(95x95mm)	137.101	12



Description	Dimensions	Code	
SURFACE MOUNTING BOX	M95x2(195x95mm)	137.102	12

■ FLUSH MOUNTING - IP66 >> BOX



Description	Dimensions	Code	
TOP POLE ENCLOSURE	M95(95x95mm)	137.131	12

Accepts SCAME EVOLUTION Series inserts.
The package includes the adapter for Ø 50mm pole.



Description	Dimensions	Code	
SIDE BY SIDE POLE	M95(95x95mm)	137.141	12

Accepts SCAME EVOLUTION Series inserts.
The package includes the adapter for Ø 50mm pole.

■ FLUSH MOUNTING - IP66 >> ADAPTER M95



Description	Dimensions	Code	
ADAPTER	M95(95x95mm)	137.125	12/120

The IP55 degree of protection is obtained with the cover closed and with the item installed on smooth, impermeable walls without grooves (smooth tiles, marble).

■ FLUSH MOUNTING - IP66 >> ADAPTER 70X87MM




Description	Dimensions	Code	
PRE DRILLED COVER WITH FLANGE	M95(95x95mm)	137.151	12

70x87mm cut-outs.



■ FLUSH MOUNTING - IP66 >> EMPTY ENCLOSURE



Description	Dimensions	Code	
EMPTY ENCLOSURE	M95(95x95mm)	137.001	12
	M95(95x95mm)	137.002	12

Accepts SCAME EVOLUTION Series inserts.

■ ACCESSORIES



Description	Code	
EARTH TERMINAL	137.201	10/100



Description	Code	
SEALING CAPS	137.203	200



Description	Code	
LED 220V	137.200	10/100



Description	Code	
TPE SEAL	137.202	10/100

UNIBOX Series [+EVOLUTION]

UNIBOX is a complete range of modular enclosures for switches and domestic socket outlets, made of impact-resistant and UV-resistant technopolymer. Ideal for residential, domestic and tertiary environments. Available as flush and surface mounting versions, with IP40 and IP55 protection degree.



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■ EMPTY BOX (SURFACE MOUNTING) >> WITHOUT COVER - IP40



1 Mod.

Dimensions	Colour	Code	
68x82x52mm		136.4121	100

Accepts SCAME EVOLUTION Series inserts.
Cable inlet: 3 knock-outs Ø23 mm and one with cable gland PG16.



2 Mod.

Dimensions	Colour	Code	
68x82x52mm		136.4122	100

Accepts SCAME EVOLUTION Series inserts.
Cable inlet: 3 knock-outs Ø23 mm and one with cable gland PG16.



3 Mod.

Dimensions	Colour	Code	
98x82x52mm		136.4123	60

Accepts SCAME EVOLUTION Series inserts.
Cable inlet: 3 knock-outs Ø23 mm and one with cable gland PG16.



4 Mod.

Dimensions	Colour	Code	
137x82x66mm		136.4124	24

Accepts SCAME EVOLUTION Series inserts.
Cable inlet: 3 knock-outs Ø23 mm and one with cable gland PG16.



6 Mod.

Dimensions	Colour	Code	
198x82x66mm		136.4126	16

Accepts SCAME EVOLUTION Series inserts.
Cable inlet: 3 knock-outs Ø23 mm and one with cable gland PG16.



■ EMPTY BOX (SURFACE MOUNTING) >> WITH COVER - IP55



1 Mod.

Dimensions	Colour	Code	
68x82x66mm		136.5121	80

Accepts SCAME EVOLUTION Series inserts.
Cable inlet: 3 knock-outs Ø23 mm and one with cable gland PG16.



2 Mod.

Dimensions	Colour	Code	
68x82x66mm		136.5122	80

Accepts SCAME EVOLUTION Series inserts.
Cable inlet: 3 knock-outs Ø23 mm and one with cable gland PG16.



3 Mod.

Dimensions	Colour	Code	
98x82x66mm		136.5123	60

Accepts SCAME EVOLUTION Series inserts.
Cable inlet: 3 knock-outs Ø23 mm and one with cable gland PG16.



4 Mod.

Dimensions	Colour	Code	
137x82x66mm		136.5124	24

Accepts SCAME EVOLUTION Series inserts.
Cable inlet: 3 knock-outs Ø23 mm and one with cable gland PG16.



6 Mod.

Dimensions	Colour	Code	
198x82x66mm		136.5126	16

Accepts SCAME EVOLUTION Series inserts.
Cable inlet: 3 knock-outs Ø23 mm and one with cable gland PG16.

■ PREASSEMBLED BOX >> IP40 - 3 MOD



Sockets	Switches	Dimensions	Colour	Code	
1x13A BRITISH SOCKET	1x16AX 2W S.P. SWITCH	98x82x52mm	■	136.4123-413	50
1x15A BRITISH SOCKET	1x16AX 2W S.P. SWITCH	98x82x52mm	■	136.4123-414	1/50
1x16A FRENCH SOCKET	1x16AX 2W S.P. SWITCH	98x82x52mm	■	136.4123-411	50

■ PREASSEMBLED BOX >> IP55 - 1 MOD



Sockets	Switches	Dimensions	Colour	Code	
1x16A SUISSE SOCKET		68x82x66mm	■	136.5121-417	32/128
	1x16AX 1W S.P. SWITCH	68x82x66mm	■	136.5121-303	32/128
	1x16AX 2W S.P. SWITCH	68x82x66mm	■	136.5121-323	32/128
	1x16A S.P. PUSH BUTTON	68x82x66mm	■	136.5121-333	32/128
	1x20AX 1W D.P. SWITCH	68x82x66mm	■	136.5121-302	32/128
	1x20AX 1W D.P. SWITCH WITH NEON	68x82x66mm	■	136.5121-304	32/128

■ PREASSEMBLED BOX >> IP55 - 2 MOD



Sockets	Switches	Dimensions	Colour	Code	
1x13A BRITISH SOCKET		68x82x66mm	■	136.5122-413	32/128
1x15A BRITISH SOCKET		68x82x66mm	■	136.5122-414	32/128
1x16A FRENCH SOCKET		68x82x66mm	■	136.5122-411	32/128
1x16A GERMAN SHUTTERED SOCKET		68x82x66mm	■	136.5122-407	32/128
1x10A NEW ZEALAND SOCKET		68x82x66mm	■	136.5122-427	32/128
1x6-16A INDIAN SOCKET		68x82x66mm	■	136.5122-429	32/128
	2x16AX 1W S.P. SWITCH	68x82x66mm	■	136.5122-303	32/128
	2x16AX 2W S.P. SWITCH	68x82x66mm	■	136.5122-323	32/128

■ PREASSEMBLED BOX >> IP55 - 3 MOD



Sockets	Switches	Dimensions	Colour	Code	
1x13A BRITISH SOCKET	1x16AX 1W S.P. SWITCH	98x82x66mm	■	136.5123-413	24/96
1x15A BRITISH SOCKET	1x16AX 1W S.P. SWITCH	98x82x66mm	■	136.5123-414	24/96
1x16A FRENCH SOCKET	1x16AX 1W S.P. SWITCH	98x82x66mm	■	136.5123-411	96
1x16A GERMAN SHUTTERED SOCKET	1x16AX 1W S.P. SWITCH	98x82x66mm	■	136.5123-407	96
1x6-16A INDIAN SOCKET	1x16AX 1W S.P. SWITCH	98x82x66mm	■	136.5123-429	24/96
	3x16AX 1W S.P. SWITCH	98x82x66mm	■	136.5123-303	24/96
	3x16AX 2W S.P. SWITCH	98x82x66mm	■	136.5123-323	24/96

WIRING DEVICES

 UNIBOX SERIES [EVOLUTION]

■ PREASSEMBLED BOX >> IP55 - 2+2 MOD



Sockets	Switches	Dimensions	Colour	Code	
2x13A BRITISH SOCKET		137x82x66mm	■	136.5124-413	24
2x16A FRENCH SOCKET		137x82x66mm	■	136.5124-411	24
2x16A GERMAN SHUTTERED SOCKET		137x82x66mm	■	136.5124-407	24
	4x16AX 1W S.P. SWITCH	137x82x66mm	■	136.5124-303	24
	4x16AX 2W S.P. SWITCH	137x82x66mm	■	136.5124-323	24

■ PREASSEMBLED BOX >> IP55 - 3+3 MOD



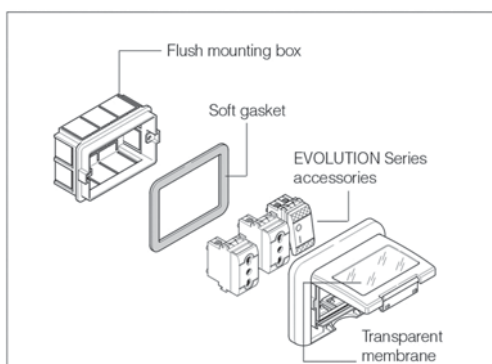
Sockets	Switches	Dimensions	Colour	Code	
2x13A BRITISH SOCKET	2x16AX 1W S.P. SWITCH	198x82x66mm	■	136.5126-413	16
2x16A FRENCH SOCKET	2x16AX 1W S.P. SWITCH	198x82x66mm	■	136.5126-411	16
2x16A GERMAN SHUTTERED SOCKET	2x16AX 1W S.P. SWITCH	198x82x66mm	■	136.5126-407	16
	6x16AX 1W S.P. SWITCH	198x82x66mm	■	136.5126-303	16
	6x16AX 2W S.P. SWITCH	198x82x66mm	■	136.5126-323	16

■ EMPTY BOX (PANEL MOUNTING)



Dimensions	Colour	Code	
120x98x28mm	■	136.5023	85
120x98x28mm	■	136.5023.AT	85

The IP55 protection degree becomes IP20 when the cover is open.



UNIBOX Series
Examples of installation (wall housing - IP55).

■ ACCESSORIES



Description	Colour	Code	
COUPLER		805.3334	10/50

Only for surface mounting enclosure.



Description	Colour	Code	
EARTH TERMINAL		654.0376	20/200

Only for surface mounting enclosure.



Description	Colour	Code	
WALL MOUNTING BRACKETS KIT		136.001	10

Only for surface mounting enclosure.




Description	Colour	Code	
SEALING CAPS		654.0080	10/100

For providing total insulation e according to EN 60439-1.
Only for surface mounting enclosure.




**EVOLUTION Series**

EVOLUTION is a complete range of modular switches and sockets for flush mounting installation according to Italian Standard. The frontplates, available in different designs and colors, are elegant and modern, able to adapt to any environment. The electrical socket outlets are available in the main Italian and International standards.

 technical sheet **p. 891**




■ DEVICES >> COVERS AND PLATES FOR PUSH BUTTON >> BLANK COVER



Description	No. modules	Colour	Code	
BLANK PLATE	1 MOD.		101.6201.G	100/800
			101.6201	100/800

■ DEVICES >> COVERS AND PLATES FOR PUSH BUTTON >> CABLE OUTLET



Description	No. modules	Colour	Code	
CABLE OUTLET	1 MOD.		101.6203.G	100
			101.6203	100

■ DEVICES >> CONTROL DEVICES >> SWITCHES



Description	Type	Current	Volt	Warning light	Colour	Code	
ONE WAY SWITCH	DOUBLE POLE	16AX	250			101.6302.G	12/480
	DOUBLE POLE	16AX	250			101.6302	12/480
	DOUBLE POLE	16AX	250	WITH NEON		101.6304.G²⁾	12/480
	DOUBLE POLE	16AX	250	WITH NEON		101.6304²⁾	12/480
	DOUBLE POLE	20AX	250			101.6302.20G	12/480
	DOUBLE POLE	20AX	250	WITH NEON		101.6304.20G²⁾	12/480
	SINGLE POLE WITH KEY	16A	250			101.6301K.G	6/240
	SINGLE POLE WITH KEY	16A	250			101.6301K	6/240
	SINGLE POLE	16AX	250	ILLUMINABLE		101.6303.G¹⁾	12/480
	SINGLE POLE	16AX	250	ILLUMINABLE		101.6303¹⁾	12/480
	SINGLE POLE	20AX	250	ILLUMINABLE		101.6303.20G¹⁾	12/480
	SINGLE POLE	20AX	250	ILLUMINABLE		101.6303.20¹⁾	12/480

¹⁾Neon available as accessory.

²⁾Neon included.

■ DEVICES >> CONTROL DEVICES >> REVERSING SWITCH



Description	Current	Volt	Colour	Code	
REVERSING SWITCH	16AX	250		101.6311.G	12/480
	16AX	250		101.6311	12/480

Neon not available.

■ DEVICES >> CONTROL DEVICES >> TWO WAY SWITCH



Description	Type	Current	Volt	Colour	Code	
TWO WAY SWITCH	SINGLE POLE	16AX	250		101.6323.G	12/480
	SINGLE POLE	16AX	250		101.6323	12/480

Neon available as accessory.



■ DEVICES >> CONTROL DEVICES >> PUSH BUTTON (NO)


Description	Type	Current	Volt	Warning light	Colour	Code	
PUSH BUTTON	DOUBLE POLE	16A	250			101.6332.G	12/480
	DOUBLE POLE	16A	250			101.6332	12/480
	DOUBLE POLE	16A	250	WITH NEON		101.6334.G ²⁾	12/480
	DOUBLE POLE	16A	250	WITH NEON		101.6334 ²⁾	12/480
	SINGLE POLE	10A	250	ILLUMINABLE		101.6204 ¹⁾	6/240
	SINGLE POLE	16A	250	ILLUMINABLE		101.6333.G ¹⁾	12/480
	SINGLE POLE	16A	250	ILLUMINABLE		101.6333 ¹⁾	12/480
	FOR SHUTTERS - SINGLE POLE	10A	250			101.63312.G	12/480
	FOR SHUTTERS - SINGLE POLE	10A	250			101.63312	12/480
	CORD OPERATED	16A	250			101.6331T.G	6/240
	CORD OPERATED	16A	250			101.6331T	6/240

¹⁾ Neon available as accessory.

²⁾ Neon included.

■ DEVICES >> CONTROL DEVICES >> MINIATURE CIRCUIT BREAKERS (MCB) 3KA


Description	Current	Volt	Colour	Code	
MCB	6A	250		101.6340.06G	12/480
	6A	250		101.6340.06	12/480
	10A	250		101.6340.10G	12/480
	10A	250		101.6340.10	12/480
	16A	250		101.6340.G	12/480
	16A	250		101.6340	12/480

■ DEVICES >> CONTROL DEVICES >> MINIATURE CIRCUIT BREAKERS AND RESIDUAL CURRENT (RCBO) 3KA-10MA


Description	Current	Volt	Colour	Code	
RCBO	6A	250		101.6341.06G	6/240
	6A	250		101.6341.06	6/240
	10A	250		101.6341.10G	6/240
	10A	250		101.6341.10	6/240
	16A	250		101.6341.G	6/240
	16A	250		101.6341	6/240

■ DEVICES >> CONTROL DEVICES >> FUSE HOLDER



Description	Volt	Colour	Code	
FUSE HOLDER	250		101.6345.G	12/480
	250		101.6345	12/480

Fuse 6,3x32mm.

■ DEVICES >> SOCKET-OUTLETS >> FOR ENERGY (EUROPEAN STANDARD)



Description	Type	Current	Volt	Colour	Code	
SOCKET		16A	250		101.6411.G	6/240
		16A	250		101.6411	6/240
		15A	250		101.6414.G	6/240
		15A	250		101.6414	6/240
		16A	250		101.6407.R	6/240
		16A	250		101.6407.G	6/240
		16A	250		101.6407	6/240
		16A	250		101.6404.R	6/240
		16A	250		101.6404.G	6/240
		16A	250		101.6404	6/240
		16A	250		101.6405.R	6/240
		16A	250		101.6405.G	6/240
		16A	250		101.6405	6/240
		13A	250		101.6413.G	6/240
		13A	250		101.6413	6/240
		16A	250		101.6403.R	12/480
		16A	250		101.6403.G	12/480
		16A	250		101.6403	12/480
		10A	250		101.6417.G	12/480
		10A	250		101.6401.G	12/480
	10A	250		101.6401	12/480	
	16A	250		101.6402.G	12/480	
	16A	250		101.6402	12/480	

Italian standard P11 2P+E 10A	Italian standard P17 2P+E 16A	Italian standard P17/11 2P+E 16A	French standard 2P+E 16A	German standard 2P+E 16A	Italian standard P30 2P+E 16A	Pluristandard P40 2P+E 16A	British standard 2P+E 13A	British standard 2P+E 15A	Swiss standard 2P+E 10A



■ DEVICES >> SOCKET-OUTLETS >> FOR ENERGY (INTERNATIONAL STANDARD)


Description	No. modules	Type	Current	Volt	Colour	Code		
SOCKET	1 MOD.		15A	250		101.6423.G	12/480	
			15A	250		101.6423	12/480	
			10A	250		101.6425.G	12/480	
			10A	250		101.6425	12/480	
	2 MOD.		10A	250		101.6424.G	6/240	
			10A	250		101.6424	6/240	
			20A	250		101.6426.G	6/240	
			20A	250		101.6426	6/240	
			10A	250		101.6427.G	6/240	
			10A	250		101.6427	6/240	
				16A	250		101.6428.G	6/240
				16A	250		101.6428	6/240
			6A 16A	250		101.6429.G	6/240	

■ DEVICES >> SOCKET-OUTLETS >> DIN RAIL


Description	No. modules	Type	Current	Volt	Colour	Code	
SOCKET	1 MOD.		16A	250		101.6403.GD	6
			10A	250		101.6417.GD	6
	2 MOD.		16A	250		101.6411.GD	6
			16A	250		101.6405.GD	6
			13A	250		101.6413.GD	6
			10A	250		101.6424.GD	6
			16A	250		101.6428.GD	6
			16A	250		101.6407.GD	6

Insert mounted on DIN support.

French standard 2P+E 16A	German standard 2P+E 16A	Pluristandard P40 2P+E 16A	British standard 2P+E 13A	Swiss standard 2P+E 10A	Euroamerican standard 2P 15A	Argentinian standard 2P+E 10A	Argentinian standard 2P+E 20A	New Zealand standard 2P+E 10A	South African standard 2P+E 16A	Indian standard 2P+E 6A-16A

■ DEVICES >> SOCKET-OUTLETS >> TV/SAT OUTLETS



Description	Type	Colour	Code	
TV OUTLET	FEMALE		101.6432.01G ²⁾	12/480
	FEMALE		101.6432.10G ³⁾	12/480
	FEMALE		101.6432.G ¹⁾	12/480
	FEMALE		101.6432 ¹⁾	12/480
	FEMALE		101.6432.01 ²⁾	12/480
	FEMALE		101.6432.10 ³⁾	12/480
	MALE		101.6431.01G ²⁾	12/480
	MALE		101.6431.10G ³⁾	12/480
	MALE		101.6431.G ¹⁾	12/480
	MALE		101.6431 ¹⁾	12/480
SAT OUTLET			101.6433.G	12/480
			101.6433	12/480
TV-SAT OUTLET			101.6434.G	6/240
			101.6434	6/240

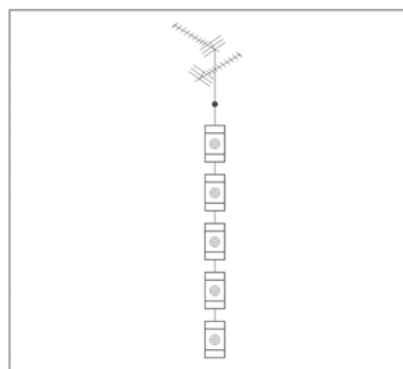
¹⁾ Direct.

²⁾ Terminal 75Ω.

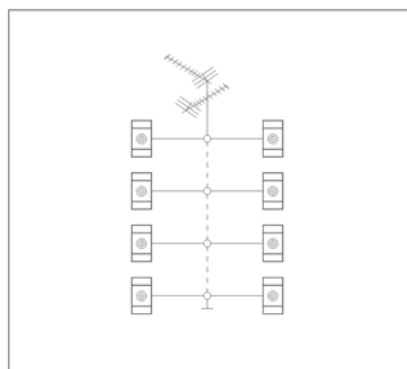
³⁾ Attenuation 10dB.



EVOLUTION Series
Direct.



EVOLUTION Series
Attenuation.



EVOLUTION Series
Terminal.



■ DEVICES >> SOCKET-OUTLETS >> TELEPHONE OUTLETS


Description	Type	Volt	Colour	Code	
RJ11 OUTLET	6/4 PLUG			101.6461.64G	12/480
	6/4 PLUG			101.6462.64G	12/480
	6/4 PLUG			101.6461.64	12/480
	6/4 PLUG			101.6462.64	12/480
TELEPHONE OUTLET	SPECIAL	48		101.6464.G	12/480
	SPECIAL	48		101.6464	12/480

■ DEVICES >> SOCKET-OUTLETS >> DATA COMMUNICATION OUTLETS (RJ45 - PLUG 8/8)


Description	Type	Colour	Code	
SUPPORT	SELF-BEARING		101.6481.G	6/240
	SELF-BEARING		101.6481	6/240
RJ45 OUTLET	CAT.6 UNSHIELDED (UTP)		101.6481.60G	6/240
	CAT.6 UNSHIELDED (UTP)		101.6481.60	6/240
	CAT.6 SHIELDED (FTP)		101.6481.61G	6/240
	CAT.6 SHIELDED (FTP)		101.6481.61	6/240

■ DEVICES >> SOCKET-OUTLETS >> USB


Description	Colour	Code	
USB OUTLET		101.6482.G	
		101.6482	

■ DEVICES >> SIGNAL DEVICES >> BUZZERS


Description	Volt	Colour	Code	
BUZZER	12		101.6501.12G	12/480
	12		101.6501.12	12/480
	230		101.6501.G	12/480
	230		101.6501	12/480

■ DEVICES >> SIGNAL DEVICES >> BELLS



Description	Volt	Colour	Code	
BELL	12		101.6503.12G	12/480
	12		101.6503.12	12/480
	230		101.6503.G	12/480
	230		101.6503	12/480

■ DEVICES >> ELECTRONIC >> DIMMER FOR RESISTIVE LOADS



Description	Type	Volt	Colour	Code	
DIMMER	RESISTIVE LOAD	250		101.6801.05G	8/320
	RESISTIVE LOAD	250		101.6802.05G	8/320
	RESISTIVE LOAD	250		101.6801.05	8/320
	RESISTIVE LOAD	250		101.6802.05	8/320

■ DEVICES >> ELECTRONIC >> DIMMERS FOR INDUCTIVE LOADS



Description	Type	Volt	Colour	Code	
DIMMER	INDUCTIVE LOAD	250		101.6811.03G	8/320
	INDUCTIVE LOAD	250		101.6812.03G	8/320
	INDUCTIVE LOAD	250		101.6811.03	8/320
	INDUCTIVE LOAD	250		101.6812.03	8/320

■ DEVICES >> ELECTRONIC >> PROXIMITY SWITCH (200W)



Description	Type	Volt	Colour	Code	
PROXIMITY SWITCH	SINGLE POLE	230		101.6850.G	12/480
	SINGLE POLE	230		101.6850	12/480

■ SUPPORT AND ACCESSORIES >> NEON LAMPS



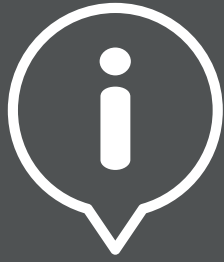
Description	Volt	Colour	Code	
NEON LAMPS	12	NEUTRAL	101.6200.12	100
	24	NEUTRAL	101.6200.24	100
	110	NEUTRAL	101.6200.11	100
	230	NEUTRAL	101.6200	100

■ SUPPORT AND ACCESSORIES >> SUPPORT DIN



Description	No. modules	Colour	Code	
DIN RAIL BRACKET	1 MOD.		654.0091	12/120
	2 MOD.		654.0092	12/120





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■ SPLASHPROOF DOMESTIC SOCKET OUTLETS



■ VERSIONS



Panel mounting flange 50x60mm



Panel mounting flange 70x87mm



Surface mounting flange 70x87mm

■ REFERENCE STANDARDS

CEI 23-50
IEC 60884-1
NF C61-314
BS 1363

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated current:	10A-13A-16A-20A
Rated voltage:	250V~
Frequency:	50/60Hz
Protection degree:	IP54 (closed cover)
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C (enclosure) 850°C (contact carrier)
Impact resistance (IK degree):	IK08
Material:	Thermoplastic (Halogen Free)
Cabling capacity of the terminals:	1mm ² ÷2,5mm ² (10A) 1,5mm ² ÷2,5mm ² (13A) 1,5mm ² ÷4mm ² (16A) 2,5mm ² ÷6mm ² (20A)

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

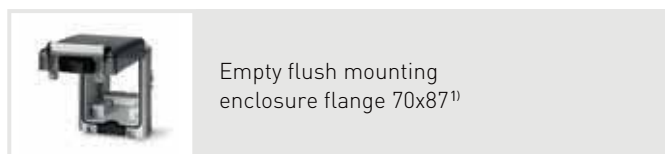
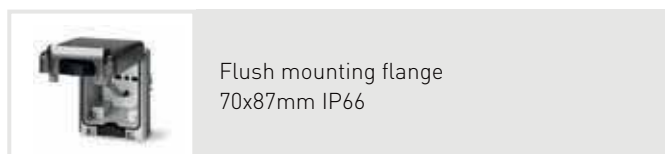
Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WATERTIGHT DOMESTIC SOCKET OUTLETS WITH PLUG INSTERTED



■ VERSIONS



¹⁾Accepts Evolution Series inserts.

■ REFERENCE STANDARDS

CEI 23-50
EN 60670-1
IRAM 2071
SANS 164-1
IEC 60884-1
BS 1363
BS 546
NF C61-303

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated current:	10A-13A-15A-16A
Rated voltage:	250V~
Frequency:	50/60Hz
Protection degree:	IP66 (also with plug inserted)
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C (enclosure) 850°C (contact carrier)
Impact resistance (IK degree):	IK08
Material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL 7035 (base) Tinted (cover)
Cabling capacity of the terminals:	1mm ² ÷2,5mm ² (10A) 1,5mm ² ÷2,5mm ² (13A-15A) 1,5mm ² ÷4mm ² (16A)

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



INDUSTRIAL PLUGS AND SOCKETS



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



Plugs 90° angled

Flush mounting appliance inlets
90° angled

Connectors 90° angled

Flush mounting socket outlets
90° angled

TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	>50÷690V
Frequency:	50÷500Hz, c.c.
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP44 - IP66/IP67
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL 7035
Impact resistance (IK degree):	IK07
Construction characteristics/ type of closure:	Separate body and handle / Snap-on (without screws)
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier)
Mobile versions cable entry device:	IP44 Cable IP66/IP67 Cable gland

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WIRING CAPACITY OF THE TERMINALS

Rated current			16A	32A
Cross-section of the connectable conductors	mm ²	Min	1.5	2.5
		Max	4	10
Tightening torque	Nm		0.8	0.8

■ MAX. CABLE SIZE ACCEPTED BY THE CABLE CLAMP

Rated current			16A	32A
Outside Ø mm	mm	Min	8	11.5
		Max	11.5	21



INDUSTRIAL PLUGS AND SOCKET OUTLETS UL/CSA LISTED



VERSIONS

	Plugs
	Flush mounting appliance inlets
	Connectors
	Flush mounting socket outlets

REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

UL 1682

UL 1686

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	20A-30A-60A-100A
Rated voltage:	125V÷600V
Frequency:	50/60Hz
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP44 - IP66/IP67
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic Valox (Halogen Free)
Colour:	Grey RAL 7004
Impact resistance (IK degree):	IK10
Construction characteristics/ type of closure:	Separate body and handle / Snap-on (without screws)
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier)
Self-extinguishing (UL94):	V1 (3mm)
Cable entries:	IP44 (splashproof) Cable sleeve IP67 (watertight) External cable gland/cable clamp

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WIRING CAPACITY OF THE TERMINALS

Rated current			20A	30A	60A	100A
Cross-section of the connectable conductors	AWG (mm ²)	Min	14 (1)	12 (2.5)	6 (16)	4 (25)
		Max	10 (6)	8 (10)	4 (25)	1 (70)
Tightening torque	lbs-in (Nm)		7 (0.8)	7 (0.8)	20 (2.2)	50 (5.6)

■ MAX. CABLE SIZE ACCEPTED BY THE CABLE CLAMP

Rated current				20A	30A	60A	100A
Outside Ø mm	mm	Min	inch	.570 (14)	.675 (17)	.937 (24)	1.265 (35)
		Max	(mm)	.710 (18)	.910 (23)	1.375 (35)	1.790 (45)



■ INDUSTRIAL PLUGS AND SOCKETS



■ VERSIONS

	Plugs
	Flush mounting appliance inlets
	Surface mounting appliance inlets
	Connectors
	Flush mounting socket outlets
	Surface mounting socket outlets

■ REFERENCE STANDARDS

IEC EN 60309-1
IEC EN 60309-2

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated current:	Mobile and flush mounting 16A-32A-63A-125A Surface mounting 16A-32A
Rated voltage:	Mobile and flush mounting >50÷690V Surface mounting 100÷415V
Frequency:	Mobile and flush mounting 50÷500Hz, c.c. Surface mounting 50 /60Hz
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP44/IP54, IP66/IP67/IP69
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	16A-32A Grey RAL7004 (plugs and connectors - flush mounting appliance inlets and flush mounting sockets straight outlet) Grey RAL7035 (flush and surface socket outlets) 63A-125A Grey RAL7004 (plugs and connectors - flush mounting appliance inlets and flush mounting sockets straight outlet) Grey RAL7035 (flush mounting sockets angled outlets)
Impact resistance (IK degree):	IK08
Construction characteristics/ type of closure (mobile versions):	16A-32A Separate body and handle / Snap-on (without screws) 63A-125A Separate body and handle / Screws with threaded inserts (4)
Terminals:	- Screw 16A-32A (all versions) - Perforating 16A (plugs and connectors) - Spring 16A (Flush mounting socket outlets), 32A (plugs, connectors and flush mounting socket outlets) - Mantle 63A-125A (all versions)
Nickel-plated pins:	16A-32A-63A-125A
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier)
Mobile versions cable entry device:	IP44 cable gland / external cable clamp IP66/IP67 cable gland / external cable clamp
Insulation class (surface mounting versions):	Class II (double insulation) □

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WIRING CAPACITY OF THE TERMINALS

Rated current			16A	32A	63A	125A
Cross-section of the connectable conductors	mm ²	Min	1	2.5	6	16
		Max	4	10	25	70
Tightening torque	Nm		0.8	0.8	2	10

■ CABLE SIZE ACCEPTED BY CABLE GLAND OF MOBILE PLUGS AND CONNECTORS

Rated current			16A	32A	63A	125A
Outside Ø mm	mm	Min	8	11.5	16	24
		Max	15	21	31	48

■ CABLE ENTRIES SURFACE MOUNTING SOCKET OUTLETS AND APPLIANCE INLETS

16A				32A	
2P+E		3P+E/3P+N+E		Top	Rear
Top	Rear	Top	Rear		
Threaded open entry 1x M20	Blank side	Threaded open entry 1x M25	Blank side	Threaded open entry 1xM32	Blank side

Threaded rubber cable sleeve supplied with IP44/54 versions.
Blank sides with drilling point marks.



■ SURFACE MOUNTING INDUSTRIAL SOCKET OUTLETS AND APPLIANCE INLETS WITH REVERSIBLE BASE



■ REFERENCE STANDARDS

- IEC EN 60309-1
- IEC EN 60309-2
- IEC EN 60309-4

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



Surface mounting socket outlets with monobloc body



Appliance inlets with reversible base



Surface mounting socket outlets with reversible base

■ TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A-125A
Rated voltage:	>50÷690V
Frequency:	50÷500Hz, c.c.
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	Base IP44/IP54 Top IP44, IP66/IP67/IP69
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	16A - 32A Grey RAL7035 63A - 125A Grey RAL7004
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier)
Impact resistance (IK degree):	IK08
Insulation class:	Class II (double insulation) □

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WIRING CAPACITY OF THE TERMINALS

Rated current			16A	32A	63A	125A
Cross-section of the connectable conductors	mm ²	Min	1	2.5	6	16
		Max	4	10	25	70
Tightening torque		Nm	0.8	0.8	2	10

■ CABLE ENTRIES OPTIMA-BASE

16A				32A	
2P+E		3P+E/3P+N+E		Top	Rear
Top	Rear	Top	Rear		
Threaded open entry 1x M20	Knock-outs 1xM20	Threaded open entry 1x M25	Knock-outs 1xM25	Threaded open entry 1xM32	Knock-outs 1xM32

Threaded rubber cable sleeve supplied.

■ CABLE ENTRIES OPTIMA-TOP 16A-32A

16A				32A	
2P+E ¹⁾		3P+E/3P+N+E		All polarities	
Top/Bottom	Rear	Top/Bottom	Rear	Top/Bottom	Rear
Threaded open entries 2x M20 / 1xM20	Knock-outs 2x M20	Threaded knock-outs 2xM25 / 1xM25	Knock-outs 2x M25	Threaded knock-outs 2xM32 / 1xM32	Knock-outs 2xM32

Reversible base.

IP44 version 2 threaded caps and 1 threaded rubber cable sleeve supplied.

¹⁾IP66/67 3 version threaded caps supplied.

■ CABLE ENTRIES OPTIMA-TOP 63A-125A

63A		125A	
All polarities		All polarities	
Top	Rear	Top	Rear
Threaded open entry 1xM40	Blank side 2xM40 (max)	Threaded open entry 1xM63	Blank side 2xM63 (max)

Cable gland supplied.

Blank sides with drilling point marks.



■ SURFACE MOUNTING INDUSTRIAL SOCKET OUTLETS WITH DOMESTIC SOCKET INTEGRATED



■ REFERENCE STANDARDS

IEC EN 60309-1
IEC EN 60309-2

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



Surface mounting socket outlets with domestic socket integrated

■ TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	>50÷690V
Frequency:	50/60Hz
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP44/IP54 (domestic socket IP54 with closed cover/IP20 with open cover)
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	16A - 32A Grey RAL7035
Self extinguishing degree (GWT):	650°C (Body) 850°C (Socket contact carrier)
Impact resistance (IK degree):	IK08
Insulation class:	Class II (double insulation) □

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WIRING CAPACITY OF THE TERMINALS

Rated current			16A-32A
Cross-section of the connectable conductors	mm ²	Min	1,5
		Max	10
Tightening torque	Nm		0.8

■ CABLE ENTRIES

16A-32A	
Top	Rear
Threaded open entry 1xM32	Knock-outs 1x M32

Threaded rubber cable sleeve supplied.



OPTIMA-TOP SWITCH SERIES , OPTIMA-COMBI SWITCH SERIES AND OPTIMA-COMBI REVERSE[L-O-R] SERIES

■ SURFACE MOUNTING INDUSTRIAL SOCKET OUTLETS WITH SWITCH



■ REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

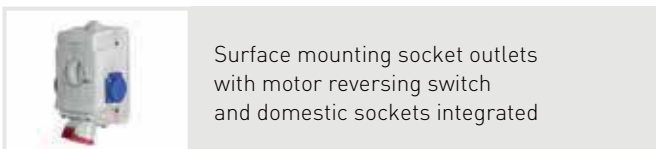
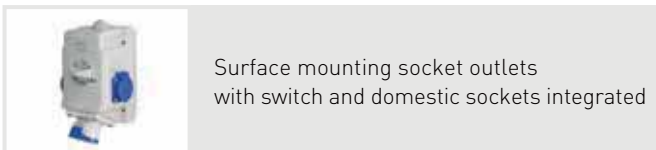
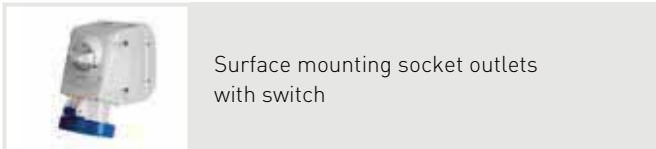
■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



■ TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	>50÷690V
Frequency:	50÷500Hz
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	Top IP44/IP54 - IP66/IP67/IP69 Combi IP44/IP54 (domestic socket IP54 with closed cover/IP20 with open cover)
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL 7035
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier)
Impact resistance [IK degree]:	IK08
Insulation class:	Class II (double insulation) ☐
Auxiliary contacts ¹⁾ :	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF and ON
Padlock arch diameter to be used:	8mm

¹⁾Except Combi version with motor reversing switch.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WIRING CAPACITY OF THE TERMINALS

Rated current			16A	32A
Cross-section of the connectable conductors	mm ²	Min	1	2.5
		Max	4	10
Tightening torque	Nm		0.8	0.8

■ CABLE ENTRIES OPTIMA-COMBI SWITCH

16A-32A	
All polarities	
Top	Rear
Threaded open entry 1xM32	Knock-outs 1x M32

Threaded rubber cable sleeve supplied.

■ CABLE ENTRIES OPTIMA-TOP 16A-32A

16A ¹⁾		32A ¹⁾ TS.A version		32A TS version	
Top/Bottom	Rear	Top/Bottom	Rear	Top/Bottom	Rear
Threaded open entries 2x M25 / 1xM25	Knock-outs 2xM20	Threaded open entries 2x M25 / 1xM25	Knock-outs 2xM32	Threaded knock-outs 2xM32 / 1xM32	Knock-outs 2xM32

Reversible base.

¹⁾ Threaded caps supplied.

■ SWITCH-DISCONNECTOR TECHNICAL CHARACTERISTICS

Switch type				Y1		
Socket outlet rated current				16A	32A	
Thermal current			I_{the}	A		
Rated operational current I _e	AC21A	Resistive loads, including moderate overloads	415V	A	16	32
			500V	A	16	32
			690V	A	16	32
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	32
			500V	A	16	32
			690V	A	16	32
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	32
			500V	A	16	32
			690V	A	16	25
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phases/3 poles)	400V	A	16	28.5
600V			A	12	20	
DC22A ¹⁾	Mixed resistive and inductive loads, including moderate overloads	250V	A	16	32	
		600V	A	10	10	
Rated operational power according to utilization category at 415V	AC23A ²⁾	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	kW	7.5	15

¹⁾ 4P versions with poles in series.

²⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

INDUSTRIAL PLUGS WITH PHASE INVERTER



VERSIONS



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Polarity:	3P+E - 3P+N+E
Rated voltage:	346 - 415V
Frequency:	50/60Hz
Insulating voltage:	3P+E / 3P+N+E 690V
Protection degree:	IP54/44, IP66/IP67/IP69
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7004
Impact resistance (IK degree):	IK08
Construction characteristics/ type of closure (mobile versions):	Separate body and handle / Snap-on (without screws)
Terminals:	Screw
Nickel-plated pins:	16A-32A
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier)
Mobile versions cable entry device:	IP44 cable gland/ external cable clamp IP66/IP67 cable gland/ external cable clamp
Insulation class (surface mounting versions):	Class II (double insulation) □

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WIRING CAPACITY OF THE TERMINALS

Rated current			16A	32A
Cross-section of the connectable conductors	mm ²	Min	1	2.5
		Max	4	10
Tightening torque	Nm		0.8	0.8

■ CABLE ENTRIES SURFACE MOUNTING APPLIANCE INLETS

16A		32A	
Top	Rear	Top	Rear
Threaded open entry 1x M20	Blank side	Threaded open entry 1xM32	Blank side

Threaded rubber cable sleeve supplied with IP44/54 versions.
Blank sides with drilling point marks.

■ CABLE SIZE ACCEPTED BY CABLE GLAND OF MOBILE PLUGS

Rated current			16A	32A
Outside Ø mm	mm	Min	8	11.5
		Max	15	21



INDUSTRIAL PLUGS AND SOCKETS FOR HEAVY DUTY APPLICATIONS



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



Plugs



Connectors

TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A-125A
Rated voltage:	>50÷690V
Frequency:	50÷500Hz
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP66/IP67/IP69
Installation temperature:	-25°C +60°C
Enclosure material:	High performances thermoplastic (Halogen Free)
Colour:	Grey RAL7016
Impact resistance (IK degree):	IK10 (-40°C)
Construction characteristics/ type of closure:	16A-32A Separate body and handle / Snap-on (without screws) 63A-125A Separate body and handle / Screws with threaded inserts (4)
Terminals:	Screw 16A, 32A (all versions) Mantle 63A, 125A (all versions)
Nickel-plated pins:	16A-32A-63A-125A
Self extinguishing degree (GWT):	960°C
Mobile versions cable entry device:	IP67 cable gland/ external cable clamp

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WIRING CAPACITY OF THE TERMINALS

Rated current			16A	32A	63A	125A
Cross-section of the connectable conductors	mm ²	Min	1	2.5	6	16
		Max	4	10	25	70
Tightening torque	Nm		0.8	0.8	2	10

■ CABLE SIZE ACCEPTED BY CABLE GLAND

Rated current			16A	32A	63A	125A
Outside Ø mm	mm	Min	8	11.5	16	24
		Max	15	21	31	48



7 POLES INDUSTRIAL PLUGS AND SOCKETS



REFERENCE STANDARDS

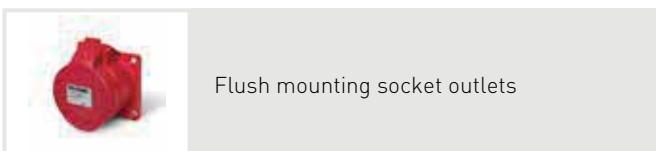
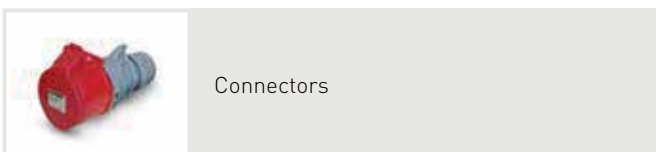
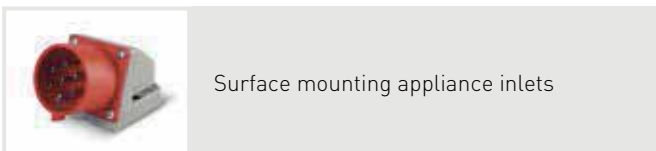
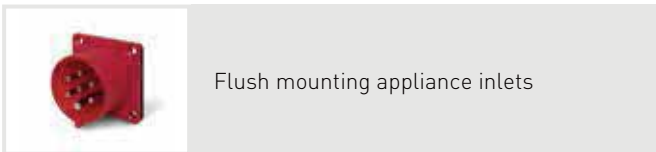
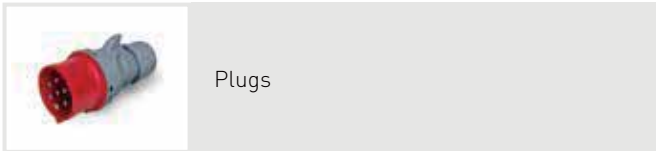
IEC EN 60309-1

IEC EN 60309-2

MARKINGS AND DIRECTIVES

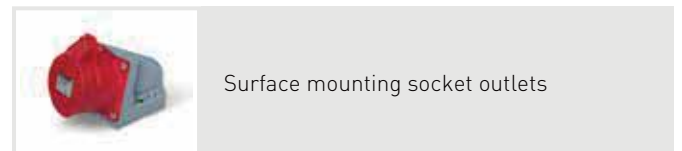


VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	380 – 415V
Frequency:	50/60Hz
Insulating voltage:	400V
Protection degree:	IP44 - IP66/IP67
Installation temperature:	-25°C +40°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7004
Impact resistance (IK degree):	IK08
Mobile versions cable entry device:	IP44 cable gland/ external cable clamp IP66/IP67 cable gland/ external cable clamp
Construction characteristics/ type of closure:	Separate body and handle / Snap-on (without screws)
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier)



BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WIRING CAPACITY OF THE TERMINALS

Rated current			16A	32A
Cross-section of the connectable conductors	mm ²	Min	1	2.5
		Max	4	10
Tightening torque	Nm		1	1

■ CABLE ENTRIES SURFACE MOUNTING APPLIANCE INLETS AND SOCKET OUTLETS

16A		32A	
Top	Rear	Top	Rear
Threaded open entry M25	Knock-out M20-M25	Threaded open entry M25	Knock-out M25

Cap supplied.

■ MAX. CABLE SIZE ACCEPTED BY THE CABLE CLAMP/CABLE GLAND OF MOBILE PLUGS AND CONNECTORS

Rated current			16A	32A
Outside Ø mm	mm	Min	8	11.5
		Max	16	22



INDUSTRIAL PLUGS AND SOCKETS



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

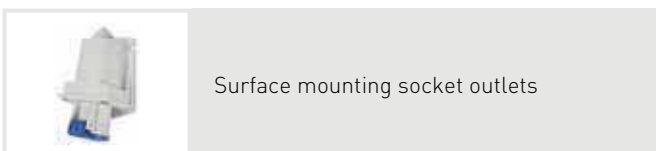
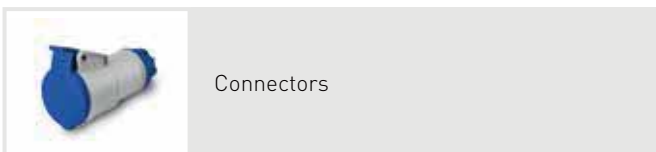
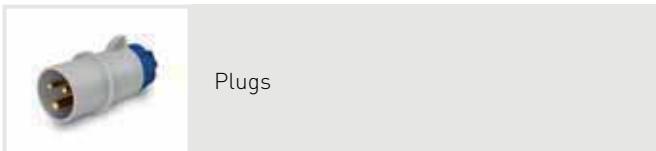
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	100V – 415V
Frequency:	50÷500Hz, c.c.
Insulating voltage	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree	IP44
Installation temperature:	-25°C +40°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7004
Impact resistance (IK degree):	IK08
Construction characteristics/ type of closure (mobile versions):	Monobloc/Screws (2)
Self extinguishing degree (GWT)	650°C (body) 850°C (socket contact carrier)
Mobile versions cable entry device:	Cable gland IP44 / external cable clamp
Insulation class (surface mounting versions):	Class II (double insulation) □

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WIRING CAPACITY OF THE TERMINALS

Rated current			16A	32A
Cross-section of the connectable conductors	mm ²	Min	1	2.5
		Max	2.5	10
Tightening torque	Nm		0.8	0.8

■ MAX. CABLE SIZE ACCEPTED BY THE CABLE CLAMP

Rated current			16A	32A
Outside Ø mm	mm	Min	8	1.5
		Max	11.5	21

■ CABLE ENTRIES SURFACE MOUNTING VERSIONS

16A		32A	
Top	Rear	Top	Rear
Threaded open entry 1xM25	Blank side 1xM25	Threaded open entry 1xM32	Blank side 1xM32

Threaded rubber cable sleeve supplied.
Blank sides with drilling point marks.



INDUSTRIAL SWITCHED INTELOCKED SOCKET OUTLETS >50V



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

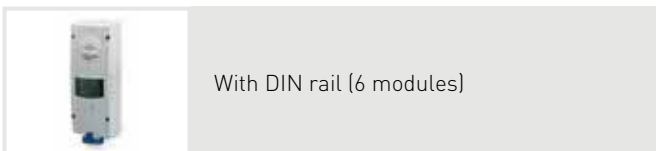
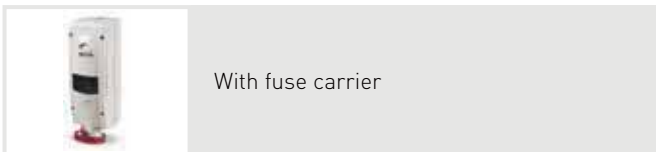
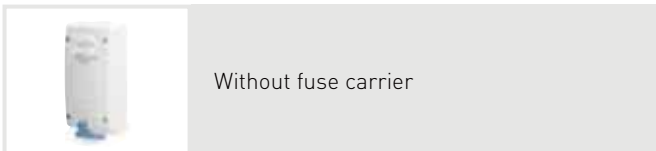
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A
Rated voltage:	>50÷690V
Frequency:	50/60Hz – 60Hz – 100-300Hz – >300 – 500Hz – c.c.
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP44 - IP66/IP67
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7035
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier) 960°C (switch)
Impact resistance (IK degree):	IK07
Fuses:	16A – 32A gG 10,3x38mm 63A Neozed type D02
Insulation class:	Class II (double insulation) □
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF and ON
Padlock arch diameter to be used:	5mm

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

SWITCH-DISCONNECTOR TECHNICAL CHARACTERISTICS

Switch type				Y1		Y2	
Switched interlocked socket outlet rated current				16A	32A	63A	
Conventional enclosed thermal current I_{the}				A	16	32	63
Rated operational current I_e	AC21A	Resistive loads, including moderate overloads	415V	A	16	32	63
			500V	A	16	32	63
			690V	A	16	32	63
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	32	63
			500V	A	16	32	63
			690V	A	16	32	63
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	32	63
			500V	A	16	32	40
			690V	A	16	25	30
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phases/3 poles)	400V	A	16	28.5	40
			600V	A	12	20	25
	DC22A ¹⁾	Mixed resistive and inductive loads, including moderate overloads	250V	A	16	32	63
600V			A	10	10	-	
Rated operational power according to utilization category at 415V	AC23A ²⁾	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	kW	7.5	15	33

For further technical information on the switches, refer to the characteristics of the COMMAND and ISOLATORS series.

¹⁾ 4P versions with poles in series.

²⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

CABLING CAPACITY OF THE ENTRY TERMINALS (SWITCH)

Rated current			16A	32A	63A
Cross-section of the connectable conductors	mm	Min	1.5	1.5	6
		Max	10	10	35
Tightening torque	Nm		0.8	0.8	3.6

CABLE ENTRIES

16A-32A			63A	
Compact	Large		Large	
Top	Top	Bottom	Top	Bottom
Threaded open entry 1xM25	Blank sides with drilling point marks max 1xM40	Blank sides with drilling point marks max 1xM32	Blank sides with drilling point marks max 1xM40	Blank sides with drilling point marks max 1xM32

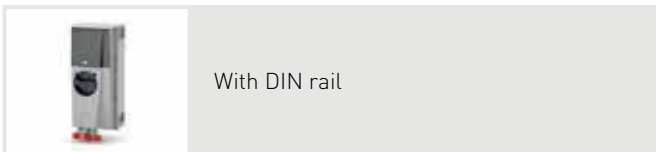
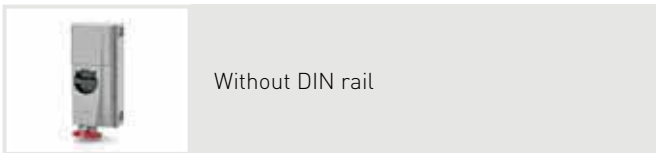
Threaded cap (only Compact) and cable gland supplied.



INDUSTRIAL SWITCHED INTELOCKED SOCKET OUTLETS 125A



VERSIONS



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	125A
Rated voltage:	>50 – 690V
Frequency:	50/60Hz
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP66/IP67/IP69
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7004
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier) 960°C (switch)
Impact resistance (IK degree):	IK09
Insulation class:	Class II (double insulation) □
Auxiliary contacts:	Max 1 auxiliary contacts
Handle lock (with padlock):	OFF and ON
Padlock arch diameter to be used:	8mm
DIN modules (consumer unit version):	8 modules DIN

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ SWITCH-DISCONNECTOR TECHNICAL CHARACTERISTICS

Switch type				FR3	
Switched interlocked socket outlet rated current				125A	
Conventional enclosed thermal current I_{the}			A	160	
Rated operational current I_e	AC21A	Resistive loads, including moderate overloads	415V	A	160
			500V	A	160
			690V	A	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	160
			500V	A	160
			690V	A	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	160
			500V	A	40
			690V	A	30
Rated operational power according to utilization category at 415V	AC23A ¹⁾	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	kW	69

For further technical information on the switches, refer to the characteristics of the COMMAND and ISOLATORS series.

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ CABLING CAPACITY OF THE ENTRY TERMINALS (SWITCH)

Rated current			125A
Cross-section of the connectable conductors	mm	Min	10
		Max	70
Tightening torque	Nm		6

■ CABLE ENTRIES

125A	
Top	Bottom
Blank sides with drilling point marks max 1xM63	Threaded open entry max 1xM63

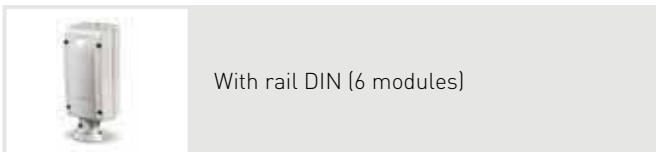
Threaded cap and cable gland supplied.



INDUSTRIAL SWITCHED INTELOCKED SOCKET OUTLETS <50V



VERSIONS



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	20V-25V, 40V-50V, 24V with transformer (16A)
Frequency:	50/60Hz
Insulating voltage:	50V
Transformer power ¹⁾ :	150VA
Protection degree:	IP44 - IP66/IP67
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7035
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier)
Impact resistance (IK degree):	IK08
Fuses ²⁾ :	16A gG 10,3x38mm (2A primary circuit- 6A secondary circuit)
Insulation class:	Class III ⚡ (SELV protections)

¹⁾ Version with SELV transformer only.

²⁾ Large version only.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLING CAPACITY OF THE ENTRY TERMINALS (SWITCH)

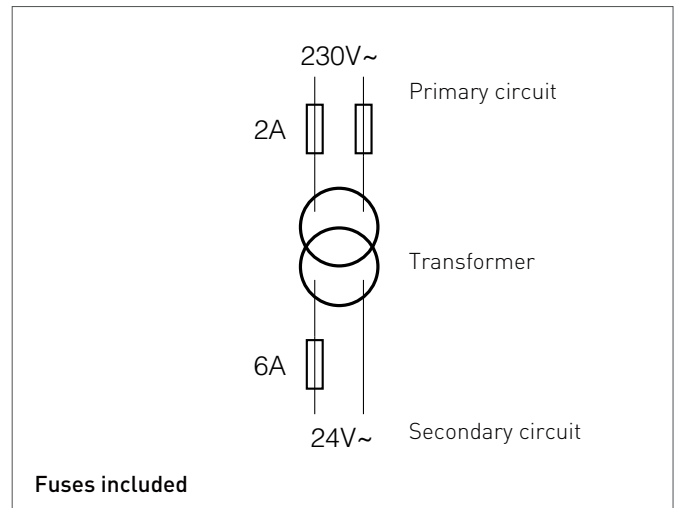
Rated current			16A with transformer	16A without transformer	32A without transformer
Cross-section of the connectable conductors	mm	Min	1	4	4
		Max	4	16	16
Tightening torque		Nm	0.6	1.2	1.2

■ CABLE ENTRIES

16A-32A		
Compact	Large	
Top	Top	Bottom
Threaded open entry 1xM25	Blank side max 1xM40	Blank side max 1xM32

Blank sides with drilling point marks.
Cap and cable gland with gaskets supplied.

■ PROTECTIONS FOR THE VERSION WITH TRANSFORMER



MODULAR FIXING PLATES, ENCLOSURES AND INSTALLATION ACCESSORIES



REFERENCE STANDARDS

IEC EN 60670-1

IEC EN 60670-24

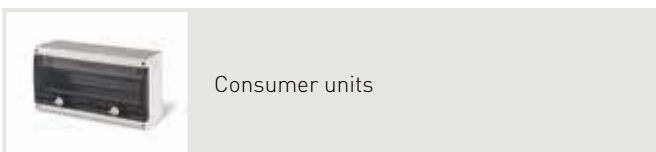
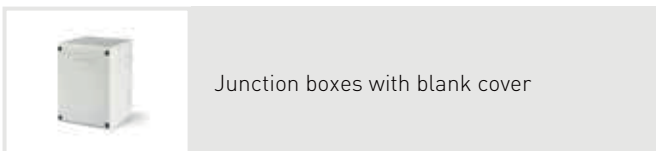
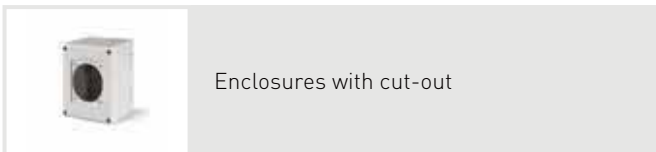
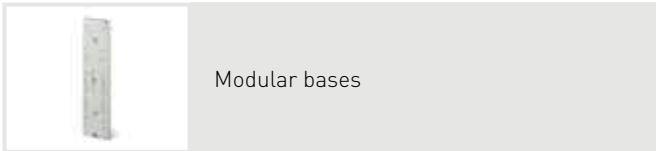
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Protection degree:	IP66
Installation temperature:	-25°C +60°C
Material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7035
Self extinguishing degree (GWT):	650°C
Impact resistance (IK degree):	IK07
Insulation class:	Class II (double insulation) □
Compatibility:	ADVANCE2 Series 16A-32A-63A and OMNIA Series 16A-32A
DIN modules (consumer unit):	
Compact:	1 socket outlet 16A-32A 4 modules 2 socket outlets 16A-32A 10 modules
Large:	1 socket outlet 16A-32A-63A 6 modules 2 socket outlets 16A-32A-63A 13 modules

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES

Compact		Large	
Top/Bottom	Side	Top/Bottom	Side
Blank side max M32	Blank side M25	Blank side max M32	Blank side M25

Blank sides with drilling point marks.



INDUSTRIAL SWITCHED INTELOCKED SOCKET OUTLETS >50V



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSION WITH MECHANICAL INTERLOCK



With switch-disconnector



With switch-disconnector and fuse



With molded case circuit breaker with thermal magnetic trip unit

TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A
Rated voltage:	>50÷690V
Frequency:	50÷500Hz, c.c.
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP66/IP67/IP69
Installation temperature:	-40°C +60°C
Enclosure material:	Thermosetting GRP (Halogen Free)
Colour:	Grey RAL 7037
Self extinguishing degree (GWT):	960°C (body) 960°C (socket contact carrier) 960°C (switch)
Impact resistance (IK degree):	IK10 (-40°C)
Fuses:	16A-32A gG 10,3x38mm 63A gG 22x58mm
Insulation class:	Class II (double insulation) □
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF and ON
Max diameter of the padlock arch for handle padlocking:	16A-32A 5mm 63A 6,3mm

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ SWITCH-DISCONNECTOR TECHNICAL CHARACTERISTICS

Switch type					Y1		Y2
Switched interlocked socket outlet rated current					16A	32A	63A
Conventional enclosed thermal current I_{the}			A		16	32	63
Rated operational current I_e	AC21A	Resistive loads, including moderate overloads	415V	A	16	32	63
			500V	A	16	32	63
			690V	A	16	32	63
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	32	63
			500V	A	16	32	63
			690V	A	16	32	63
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	32	63
			500V	A	16	32	40
			690V	A	16	25	30
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	400V	A	16	28.5	40
			600V	A	12	20	25
	DC22A ¹⁾	Mixed resistive and inductive loads, including moderate overloads	250V	A	16	32	63
600V			A	10	10	-	
Rated operational power according to utilization category at 415V	AC23A ²⁾	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	kW	7.5	15	33

For further technical information on the switches, refer to the characteristics of the COMMAND and ISOLATORS series.

¹⁾ 4P versions with poles in series.

²⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ CABLING CAPACITY OF THE ENTRY TERMINALS (SWITCH)

Rated current			16A	32A	63A
Cross-section of the connectable conductors	mm	Min	1.5	1.5	6
		Max	10	10	35
Tightening torque	Nm		0.8	0.8	3.6



INDUSTRIAL SWITCHED INTELOCKED SOCKET OUTLETS 125A



VERSIONS WITH MECHANICAL INTERLOCK

	With switch-disconnector
	With switch-disconnector and fuse
	With fuse and switch-disconnector
	With molded case circuit breaker with thermal magnetic trip unit
	With molded case circuit breaker with thermal magnetic and residual current release trip units
	With contactor

REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	125A
Rated voltage:	>50÷690V
Frequency:	50/60Hz – 60Hz – 100-300Hz - >300 – 500Hz
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP66
Installation temperature:	-40°C +60°C
Enclosure material:	Thermosetting GRP (Halogen Free)
Colour:	Grey RAL 7037
Self extinguishing degree (GWT):	960°C (body) 960°C (socket contact carrier) 960°C (switch)
Self extinguishing degree according to UL94:	Body V0
Impact resistance (IK degree):	IK10 (-40°C)
Fuses:	NH 00
Insulation class:	Class II (double insulation) □
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF and ON
Max diameter of the padlock arch for handle padlocking:	6,3mm

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ SWITCH-DISCONNECTOR TECHNICAL CHARACTERISTICS

Switch type				FR3	
Switched interlocked socket outlet rated current				125A	
Conventional enclosed thermal current I_{the}			A	160	
Rated operational current I_e	AC21A	Resistive loads, including moderate overloads	415V	A	160
			500V	A	160
			690V	A	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	160
			500V	A	160
			690V	A	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	160
			500V	A	40
			690V	A	30
Rated operational power according to utilization category at 415V	AC23A ¹⁾	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	kW	69

For further technical information on the switches, refer to the characteristics of the COMMAND and ISOLATORS series.

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ MCCB AND RCD DEVICE TECHNICAL CHARACTERISTICS

Switch type			ABB Tmax T1B
Rated current	I_n	A	125
Rated voltage	U_r	V	690
Rated impulse withstand voltage	U_{imp}	kV	8
Rated service shortcircuit breaking capacity	I_{cs}	kA	18
Ultimate shortcircuit breaking capacity	I_{cu}	kA	18
RCD device type			RC221/1 (type A)
Adjustable release		A	0.03-0.3-3

■ CABLING CAPACITY OF THE ENTRY TERMINALS (SWITCH)

Rated current			125A
Cross-section of the connectable conductors	mm	Min	10
		Max	70
Tightening torque	Nm		6

■ CABLE ENTRIES

125A	
Top	Bottom
Blank side max M63	Blank side max M63

Blank sides with drilling point marks.



INDUSTRIAL SWITCHED INTELOCKED SOCKET OUTLETS <50V



VERSIONS



With SELV transformer
230/24V - 150VA

REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	20V-25V-40V-50V-24V with transformer (16A)
Frequency:	50/60Hz
Insulating voltage:	50V
Transformer power:	150VA
Protection degree:	IP66/IP67/IP69
Installation temperature:	-40°C +60°C
Enclosure material:	Thermosetting GRP (Halogen Free)
Colour:	Grey RAL 7037
Self extinguishing degree (GWT):	960°C (body) 960°C (socket contact carrier)
Self extinguishing degree according to UL94:	Body V0
Impact resistance (IK degree):	IK10 (-40°C)
Insulation class:	Class III ⚡ (SELV protections)
Auxiliary contacts:	Max 2 auxiliary contacts

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLING CAPACITY OF THE ENTRY TERMINALS

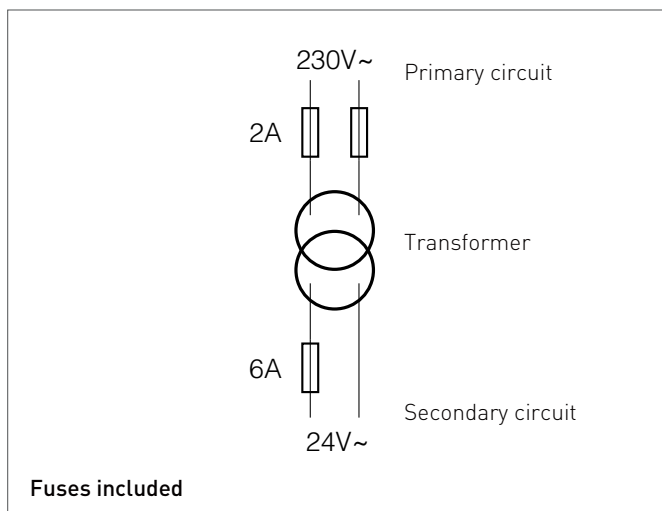
Rated current			16A with transformer	16A without transformer	32A without transformer
Cross-section of the connectable conductors	mm	Min	1	4	4
		Max	4	16	16
Tightening torque	Nm		0.6	1.2	1.2

■ CABLE ENTRIES

Socket on single box 16A-32A		Socket on base with consumer unit 16A-32A		
Top	Bottom	Top	Bottom	Side
Blank side max M32	Blank side max M32	Blank side max M32	Blank side max M32	Blank side max M32

Blank sides with drilling point marks.

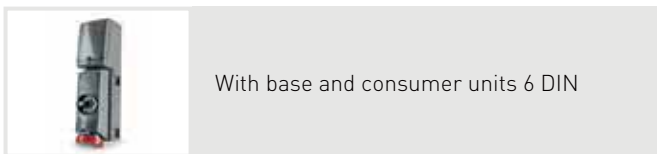
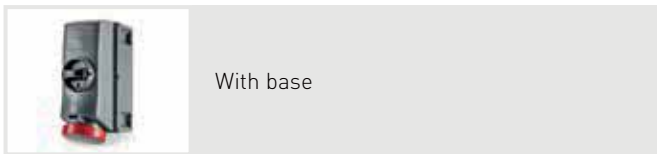
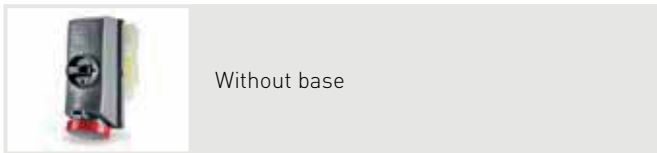
■ PROTECTIONS FOR THE VERSION WITH TRANSFORMER



INDUSTRIAL SWITCHED INTELLOCKED SOCKET OUTLETS UL/CSA LISTED >50V



VERSIONS



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

UL 1682

UL 1686

UL 508

UL 60947-4-1

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	20A-30A-60A
Rated voltage:	>50÷690V
Frequency:	50÷500Hz, c.c.
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP66/IP67/IP69
Installation temperature:	-40°C +60°C
Enclosure material:	Thermosetting GRP (Halogen Free)
Colour:	Grey RAL 7037
Self extinguishing degree (GWT):	960°C (body) 960°C (socket contact carrier) 960°C (switch)
Self-extinguishing (UL94):	V0 (3.2mm)
Impact resistance (IK degree):	IK10 (-40°C)
Insulation class:	Class II (double insulation) □
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF and ON
Max diameter of the padlock arch for handle padlocking:	20A-32A 5mm 60A 6,3mm

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ SWITCH-DISCONNECTOR TECHNICAL CHARACTERISTICS

Corrente nominale uso generale				20A	30A	60A
Tensione nominale di impiego			V	125÷600	125÷600	125÷600
Rated operational power	3 phases	120V	Hp	3	3	5
		240V	Hp	5	7,5	15
		415V	Hp	7,5	10	25
		480V	Hp	10	20	30
		600V	Hp	15	25	40
	Single phase	120	V	2	3	5
		240	V	3	5	10
480		V	10	15	20	
Short-circuit ratings with fuse	RK5 fuses (time delay)		(A) rms	5000	5000	5000
	Class J fuses (fast acting)		(A) rms	10000	10000	10000
Related fuse			A	20	40	80
Minimum electrical endurance			ON/OFF cycles	6000	6000	6000

For further technical information on the switches, refer to the characteristics of the COMMAND and ISOLATORS series.

■ CABLING CAPACITY OF THE ENTRY TERMINALS (SWITCH)

Rated current			20A	30A	60A
Cross-section of the connectable conductors	AWG/mm ²	Min	16/1.5	16/1.5	6/10
		Max	6/10	6/10	1/35
Tightening torque		ib-in/Nm	18/2	18/2	31/3.5

■ CABLE ENTRIES

Socket on single box 20A-30A		Socket on base with consumer unit 20A-30A			Socket on single box 60A		Socket on base with consumer unit 60A		
Top	Bottom	Top	Bottom	Side	Top	Bottom	Top	Bottom	Side
Blank side max M32	Blank side max M32	Blank side max M32	Blank side max M32	Blank side max M32	Blank side max M40	Blank side max M40	Blank side max M40	Blank side max M40	Blank side max M32

Blank sides with drilling point marks.



MODULAR ENCLOSURES AND INSTALLATION ACCESORIES



REFERENCE STANDARDS

IEC EN 60670-1

IEC EN 60670-24

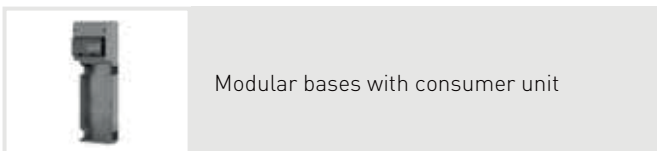
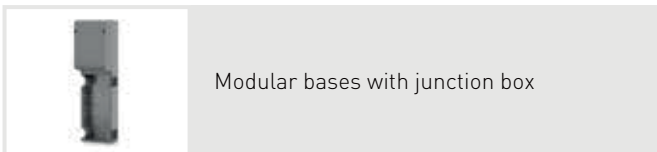
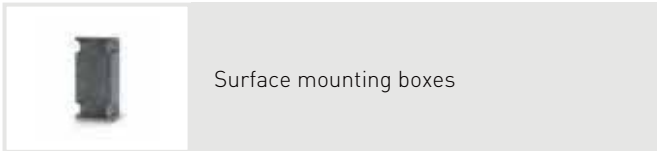
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Protection degree:	IP66/IP67/IP69
Installation temperature:	-40°C +60°C
Enclosure material:	Thermosetting GRP (Halogen Free)
Colour	Grey RAL 7037
Self extinguishing degree (GWT):	960°C
Impact resistance (IK degree):	IK10 (-40°C)
Insulation class:	Class II (double insulation) □
Compatibility:	ADVANCE GRP Series 16A-32A-63A
DIN modules (consumer unit version):	1 socket outlet 16A-32A 6 modules 2 socket outlets 16A-32A 13 modules 1 socket outlet 63A 8 modules

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES

Single box 16A-32A		Modular base 16A-32A			Single box 63A		Modular base 63A		
Top	Bottom	Top	Bottom	Side	Top	Bottom	Top	Bottom	Side
Blank side max M32	Blank side max M32	Blank side max M32	Blank side max M32	Blank side max M32	Blank side max M40	Blank side max M40	Blank side max M40	Blank side max M40	Blank side max M32

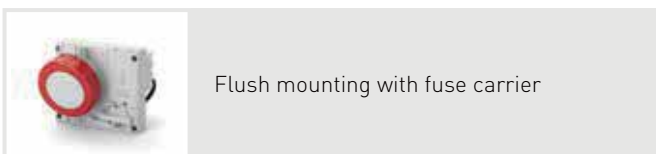
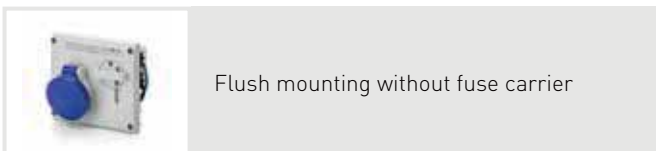
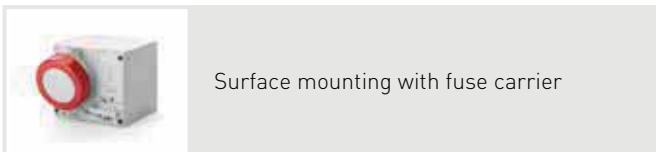
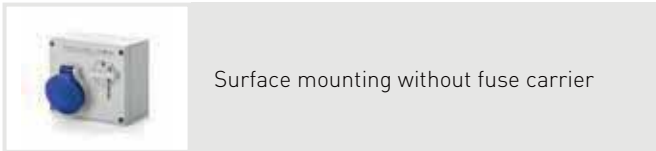
Blank sides with drilling point marks.



COMPACT INDUSTRIAL SWITCHED INTELOCKED SOCKET OUTLETS >50V



VERSIONS



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A
Rated voltage:	>50÷690V
Frequency:	50÷500Hz, c.c.
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP44, IP66/IP67
Installation temperature:	-25°C +60°C
Material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7035
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier) 960°C (switch)
Impact resistance (IK degree):	IK08
Fuses:	16A-32A gG 10,3x38mm
Insulation class:	Class II (double insulation) □
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF and ON
Padlock arch diameter to be used:	4.7mm

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ SWITCH-DISCONNECTOR TECHNICAL CHARACTERISTICS

Switch type				Y1		Y2	
Switched interlocked socket outlet rated current				16A	32A	63A	
Thermal current		I_{the}	A	16	32	63	
Rated operational current I_e	AC21A	Resistive loads, including moderate overloads	415V	A	16	32	63
			500V	A	16	32	63
			690V	A	16	32	63
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	32	63
			500V	A	16	32	63
			690V	A	16	32	63
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	32	63
			500V	A	16	32	40
			690V	A	16	25	30
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phases/3 poles)	400V	A	16	28.5	40
			600V	A	12	20	25
	DC22A ¹⁾	Mixed resistive and inductive loads, including moderate overloads	250V	A	16	32	63
600V			A	10	10	-	
Rated operational power according to utilization category at 415V	AC23A ²⁾	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	kW	7.5	15	33

For further technical information on the switches, refer to the characteristics of the COMMAND and ISOLATORS series.

¹⁾ 4P versions with poles in series.

²⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ CABLING CAPACITY OF THE ENTRY TERMINALS (SWITCH)

Rated current			16A	32A	63A
Cross-section of the connectable conductors	mm	Min	1.5	1.5	6
		Max	10	10	35
Tightening torque	Nm		0.8	0.8	3.6

■ CABLE ENTRIES

16A-32A		63A	
Top	Bottom	Top	Bottom
Blank side M20/M25	Blank side M20/M25	Blank side max M40	Blank side max M32

Blank sides with drilling point marks.



COMPACT INDUSTRIAL SWITCHED INTELLOCKED SOCKET OUTLETS <50V



VERSIONS



Surface mounting
- without transformer



Flush mounting
- with transformer
- without transformer

CABLE ENTRIES

16A/32A			
TOP	BOTTOM	SIDE	REAR
Blank side M20/M25	Blank side M20/M25	Blank side M20/M25	Blank side M20/M25

Blank sides with drilling point marks.

CABLING CAPACITY OF THE ENTRY TERMINALS

Rated current			16A with transformer	16A without transformer	32A without transformer
Cross-section of the connectable conductors	mm ²	Min	1	4	4
		Max	4	16	16
Tightening torque	Nm		0.6	1.2	1.2

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	20V/25V – 40V/50V – 24V with transformer (16A)
Frequency:	50/60Hz
Insulating voltage:	50V
Transformer power ¹⁾ :	60VA
Protection degree:	IP44 - IP66/IP67
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7035
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier)
Impact resistance (IK degree):	IK08
Insulation class:	Class III ⚡ (SELV protections)

¹⁾ Version with transformer only.

COMPACT DOMESTIC SWITCHED INTELLOCKED SOCKET OUTLETS



VERSIONS

	Without protection
	With fuse
	With MCB
	With RCBO

REFERENCE STANDARDS

CEI 23-50
IEC 60884-2-6
IEC 60884-1
BS 1363
EN 61009
EN 61543

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	6A-10A-13A-16A
Rated voltage:	250 V~
Frequency:	50/60Hz
Fuse:	10A - 250V~
MCB:	10A - 1P+N, C10, 3kA 16A - 1P+N, C16, 3kA
RCBO:	10A - 1P+N, C10, 10mA, 3kA 16A - 1P+N, C16, 10mA, 3kA
Protection degree:	IP56 (also with plug inserted)
Installation temperature:	-15°C +60°C
Cabling capacity of the terminals:	0,75mm ² ÷1,5mm ² (6A) 1mm ² ÷2,5mm ² (10A) 1,5mm ² ÷2,5mm ² (13A) 1,5mm ² ÷4mm ² (16A)
Self extinguishing degree (GWT):	650°C (body) 850°C (contact carrier)
Material:	Thermoplastic (Halogen Free)
Impact resistance (IK degree):	IK08
Colour:	Grey RAL 7035 (base) Tinted (lid)

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



SWITCHED INTELLOCKED SOCKET OUTLETS



MODULAR ENCLOSURES AND INSTALLATION ACCESSORIES



REFERENCE STANDARDS

IEC EN 60670-1

IEC EN 60670-24

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS

	Flush mounting boxes
	Surface mounting boxes
	Flange adaptors
	Modular bases

TECHNICAL CHARACTERISTICS

Protection degree:	Surface mounting IP66 Flush mounting IP55
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7035
Self extinguishing degree (GWT):	650°C
Impact resistance (IK degree)	IK08
Insulation class:	Class II (double insulation) □
Compatibility:	OMNIA Series 16A-32A
Compatibility:	OMNIPLUS Series
DIN modules (consumer unit version):	2 socket outlets 16A-32A 6 modules 3 socket outlets 16A-32A 6 modules 4 socket outlets 16A-32A 16 modules

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Not resistant	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES

Surface mounting boxes		Modular bases	
Top/Bottom	Side	Top/Bottom	Side
Blank sides with drilling point marks max M25 (16A-32A) max M40 (63A)	Blank sides	Blank sides	Blank sides



INDUSTRIAL SWITCHED INTELOCKED SOCKET OUTLETS >50V



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



Surface mounting without fuse carrier



Surface mounting with fuse carrier



Flush mounting without fuse carrier



Flush mounting with fuse carrier

TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A
Rated voltage:	>50÷690V
Frequency:	50/60Hz – 60Hz – 100-300Hz - >300 – 500Hz – c.c.
Insulating voltage:	2P+E 500V 3P+E / 3P+N+E 690V
Protection degree:	IP66/IP67/IP69
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7004
Self extinguishing degree (GWT):	650°C (body) 850°C (socket contact carrier) 960°C (switch)
Impact resistance (IK degree):	16A-32A IK10 63A IK09
Fuses:	16A-32A gG 10,3x38mm
Insulation class:	Class II (double insulation) □
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF and ON
Padlock arch diameter to be used:	16A-32A 5mm 63A 6mm

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ SWITCH-DISCONNECTOR TECHNICAL CHARACTERISTICS

Switch size				Y1		Y2	
Switched interlocked socket outlet rated current				16A	32A	63A	
Conventional enclosed thermal current I_{the}				A	16	32	63
Rated operational current according to utilization category I_e	AC21A	Resistive loads, including moderate overloads	415V	A	16	32	63
			500V	A	16	32	63
			690V	A	16	32	63
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	32	63
			500V	A	16	32	63
			690V	A	16	32	63
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	32	63
			500V	A	16	32	40
			690V	A	16	25	30
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase /3 poles)	400V	A	16	28.5	40
			600V	A	12	20	25
	DC22A ¹⁾	Mixed resistive and inductive loads, including moderate overloads	250V	A	16	32	63
600V			A	10	10	-	
Rated operational power according to utilization category at 415V	AC23A ²⁾	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	kW	7.5	15	33

For further technical information on the switches, refer to the characteristics of the COMMAND and ISOLATORS series.

¹⁾ 4P versions with poles in series.

²⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ CABLING CAPACITY OF THE ENTRY TERMINALS (SWITCH)

Rated current			16A	32A	63A
Cross-section of the connectable conductors	mm	Min	1.5	1.5	6
		Max	10	10	35
Tightening torque	Nm		0.8	0.8	3.6

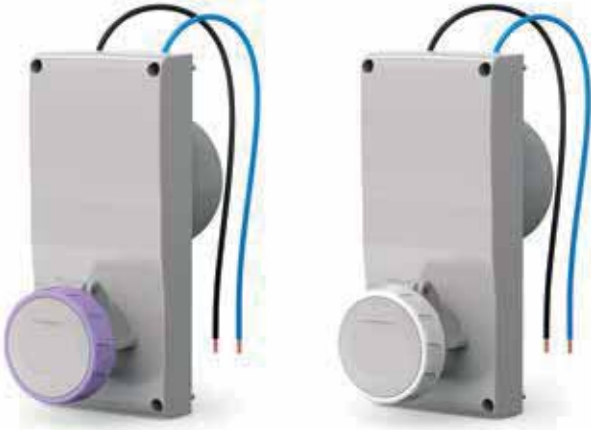
■ CABLE ENTRIES

16A-32A		63A	
Top	Bottom	Top	Bottom
Blank side max 1xM32	Blank side max 1xM32	Blank side max 1xM40	Blank side max 1xM32

Blank sides with drilling point marks.



INDUSTRIAL SWITCHED INTELOCKED SOCKET OUTLETS <50V



REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-2

IEC EN 60309-4

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



With SELV transformer
230/24V~ 150VA



Without transformer

TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	20V-25V, 40V-50V, 24V with transformer (16A)
Frequency:	50/60Hz
Insulating voltage:	50V
Potenza trasformatore ¹⁾ :	150VA
Protection degree:	IP66/IP67/IP69
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7004
Self extinguishing degree (GWT):	650°C (Body) 850°C (Socket contact carrier)
Impact resistance (IK degree):	IK10
Insulation class:	Class III ⚡ (SELV protections)

¹⁾Version with transformer only.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLING CAPACITY OF THE ENTRY TERMINALS

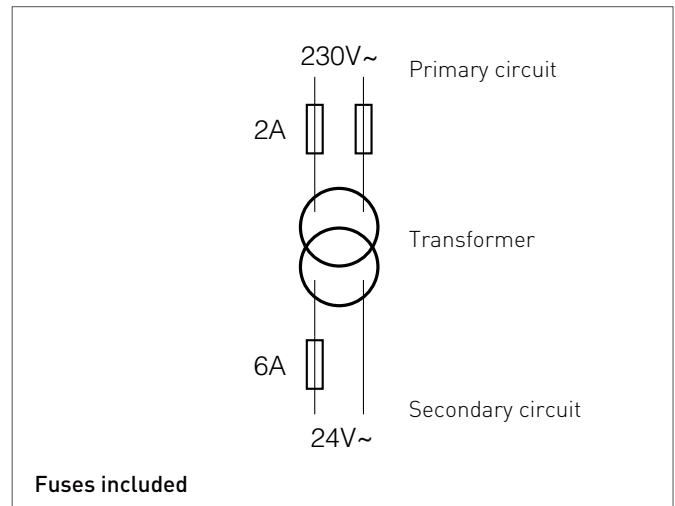
Rated current			16A with transformer	16A without transformer	32A without transformer
Cross-section of the connectable conductors	mm	Min	1	4	4
		Max	4	16	16
Tightening torque	Nm		0.6	1.2	1.2

■ CABLE ENTRIES

16A-32A		63A	
Top	Bottom	Top	Bottom
Blank side max 1xM32	Blank side max 1xM32	Blank side max 1xM40	Blank side max 1xM32

Blank sides with drilling point marks.

■ PROTECTIONS FOR THE VERSION WITH TRANSFORMER



MODULAR ENCLOSURES AND INSTALLATION ACCESORIES



REFERENCE STANDARDS

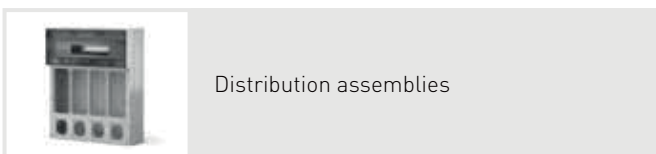
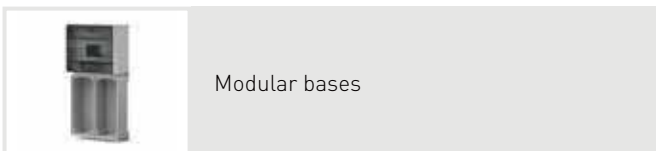
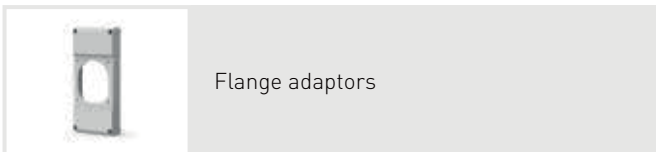
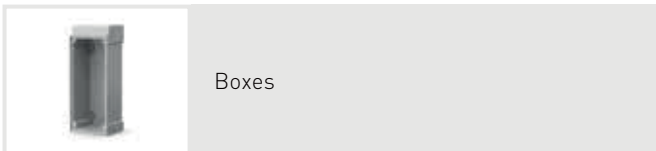
IEC EN 60670-1

IEC EN 60670-24

MARKINGS AND DIRECTIVES



VERSIONS



TECHNICAL CHARACTERISTICS

Protection degree:	IP65 (versions with consumer unit) IP66 (versions with junction box)
Installation temperature:	-25°C +60°C
Enclosure material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL7004
Self extinguishing degree (GWT):	650°C
Impact resistance (IK degree):	IK10 (boxes) IK08 (modular bases and distribution assemblies)
Insulation class:	Class II (double insulation) □
Compatibility:	PROXIMA Series 16A-32A-63A
DIN modules (consumer unit versions):	1 socket outlet 16A-32A 5 modules 2 socket outlets 16A-32A 10 modules 3 socket outlets 16A-32A 16 modules
DIN modules (distribution assemblies):	24 modules

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES

Boxes		
Top	Bottom	Side
Blank sides with drilling point marks max M32 (16A-32A) max M40 (63A)	Blank sides with drilling point marks max M32 (16A-32A) max M32 (63A)	Black sides

Modular bases		
Top	Bottom	Side
Blank sides with drilling point marks max M32	Blank sides with drilling point marks max M32	Black sides

Distribution assemblies		
Top	Bottom	Side
Blank sides with drilling point marks max M40	Blank sides with drilling point marks max M40	Blank sides with drilling point marks max M32



■ HIGH CURRENTS INDUSTRIAL PLUGS AND SOCKETS WITH LEVER COUPLING



■ REFERENCE STANDARDS

IEC EN 60309-1

■ MARKINGS AND DIRECTIVES



■ VERSIONS

HDAL250

- Plugs
- Connectors
- Sockets

HDAL500

- Plugs
- Connectors
- Sockets

HDAL800

- Plugs
- Connectors
- Sockets

■ TECHNICAL CHARACTERISTICS

Rated current:	160A-250A-320A-370A-420A 500A-570A-800A
Rated voltage:	>50÷1000V
Frequency:	50÷500Hz, c.c.
Insulating voltage:	1000V
Protection degree:	IP67
Installation temperature:	-30°C +60°C
Enclosure material:	Corrosion proof tempered cast aluminium
Colour:	Brushed brass
Impact resistance (IK degree):	IK10
Construction characteristics/ type of closure:	Separate body and handle / Metric thread screws
Terminals:	160A-250A screw 250A-320A-370A-420A 500A-570A-800A To crimp or solder
Contacts material:	Silver plated copper alloy
Self extinguishing degree (GWT):	960°C (Socket contact carrier)
Mobile versions cable entry device:	Cable gland IP67 / External cable clamp with screws
Plugs/sockets coupling system:	Lever coupling

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

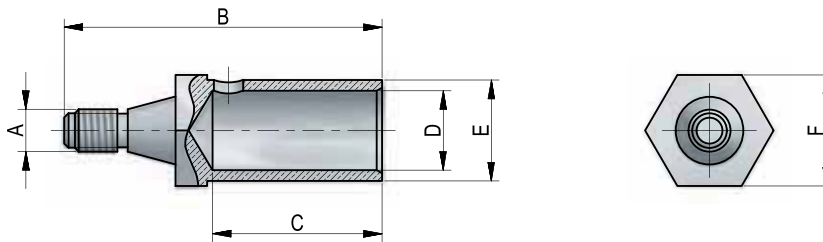
■ WIRING CAPACITY OF THE TERMINALS

Series	Rated current (A)	Conductor cross section (mm ²)	
		min	max
HDAL250	250	16	95
HDAL500	320-370-420-570	95	240
HDAL800	570-800	240	300

■ MAX CABLE SIZE ACCEPTED BY THE CABLE CLAMP/ CABLE GLAND OF MOBILE PLUGS AND CONNECTORS

Series	Rated current (A)	Cable outside diameter (mm)	
		min	max
HDAL250 (angled handle)	250	32	60
HDAL250 (strainght handle)	250	32	62
HDAL500 (angled handle)	320-370 420-570	45	80
HDAL500 (strainght handle)	320-370 420-570	45	80
HDAL800 (strainght handle)	570-800	52	100

■ TERMINALS SIZE



Section (mm ²)		HDAL250						HDAL500						HDAL800					
		A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
35	3P+E 3P+N+E																		
50	3P+E 3P+N+E	M5	50	29	∅10,8	∅14	17	M8	52	24	∅10,8	∅14	21						
		M5	50	24	∅10,8	∅14	14												
70	3P+E 3P+N+E	M5	50	29	∅13	∅17	17	M8	56	29	∅13	∅17	21						
		M5	52	29	∅13	∅17	14												
95	3P+E 3P+N+E	M5	55	30	∅15	∅19	17	M8	60	32	∅15	∅19	21						
120	3P+E 3P+N+E							M8	64	35	∅16,5	∅21	21						
150	3P+E 3P+N+E							M8	64	35	∅18,5	∅22,5	21						
185	3P+E 3P+N+E							M8	62	32	∅21	∅25	21						
240	3P+E 3P+N+E							M8	76	43	∅23	∅28	21	M10	74	43	∅23	∅28	28
300	3P+E 3P+N+E													M10	80	49	∅27	∅33	28



■ HIGH CURRENTS INDUSTRIAL PLUGS AND SOCKETS WITH SCREW RING NUT COUPLING



■ VERSIONS

	<p>HDAS250</p> <ul style="list-style-type: none"> - Plugs - Appliance inlet - Connectors - Sockets
	<p>HDAS500</p> <ul style="list-style-type: none"> - Plugs - Connectors - Sockets
	<p>HDAS800</p> <ul style="list-style-type: none"> - Plugs - Connectors - Sockets

■ REFERENCE STANDARDS

IEC EN 60309-1

■ MARKINGS AND DIRECTIVES



■ TECHNICAL CHARACTERISTICS

Rated current:	250A-320A-370A-420A 500A-570A-800A
Rated voltage:	>50÷1000V
Frequency:	50÷500Hz, c.c.
Insulating voltage:	1000V
Protection degree:	IP67
Installation temperature:	-30°C +60°C
Enclosure material:	Corrosion proof tempered cast aluminium
Colour:	Brushed brass
Impact resistance (IK degree):	IK10
Construction characteristics/ type of closure:	Separate body and handle / Metric thread screws
Terminals:	250A screw 250A-320A-370A-420A 500A-570A-800A To crimp or solder
Contacts material:	Silver plated copper alloy
Self extinguishing degree (GWT):	960°C (Socket contact carrier)
Mobile versions cable entry device:	Cable gland IP67 / External cable clamp with screws
Plugs/sockets coupling system:	Screw ring nut coupling

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

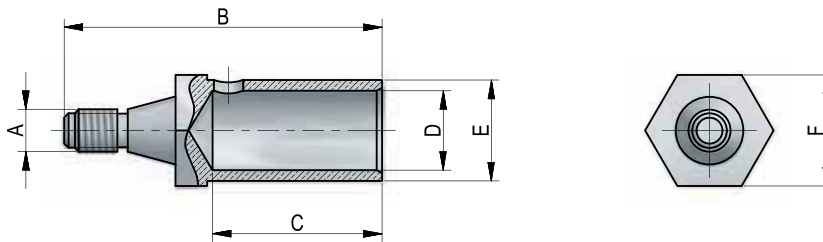
■ WIRING CAPACITY OF THE TERMINALS

Series	Rated current (A)	Conductor cross section (mm ²)	
		min	max
HDAS250	250	16	95
HDAS500	320-370-420-570	95	240
HDAS800	570-800	240	300

■ MAX CABLE SIZE ACCEPTED BY THE CABLE CLAMP/ CABLE GLAND OF MOBILE PLUGS AND CONNECTORS

Series	Rated current (A)	Cable outside diameter (mm)	
		min	max
HDAS250 (angled handle)	250	32	60
HDAS250 (strainght handle)	250	32	62
HDAS500 (angled handle)	320-370 420-570	45	80
HDAS500 (strainght handle)	320-370 420-570	45	80
HDAS800 (strainght handle)	570-800	52	100

■ TERMINALS SIZE



Section (mm ²)		HDAS250						HDAS500						HDAS800					
		A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
35	3P+E 3P+N+E																		
50	3P+E	M5	50	29	∅10,8	∅14	17	M8	52	24	∅10,8	∅14	21						
	3P+N+E	M5	50	24	∅10,8	∅14	14												
70	3P+E	M5	50	29	∅13	∅17	17	M8	56	29	∅13	∅17	21						
	3P+N+E	M5	52	29	∅13	∅17	14												
95	3P+E 3P+N+E	M5	55	30	∅15	∅19	17	M8	60	32	∅15	∅19	21						
120	3P+E 3P+N+E							M8	64	35	∅16,5	∅21	21						
150	3P+E 3P+N+E							M8	64	35	∅18,5	∅22,5	21						
185	3P+E 3P+N+E							M8	62	32	∅21	∅25	21						
240	3P+E 3P+N+E							M8	76	43	∅23	∅28	21	M10	74	43	∅23	∅28	28
300	3P+E 3P+N+E													M10	80	49	∅27	∅33	28

■ HIGH CURRENTS INDUSTRIAL PLUGS AND SOCKETS WITH LOAD DISCONNECTION FUNCTIONALITY



■ REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60947-3

■ MARKINGS AND DIRECTIVES



■ VERSIONS

	Plugs
	Appliance inlet
	Sockets

■ TECHNICAL CHARACTERISTICS

Rated current:	250A
Rated voltage:	>50÷1000Vac~ – 250Vcc
Frequency:	50÷400Hz, c.c.
Insulating voltage:	1000V
Protection degree:	IP66
Installation temperature:	-30°C +60°C
Enclosure material:	Corrosion proof tempered cast aluminium
Colour:	Natural aluminium
Impact resistance (IK degree):	IK09
Construction characteristics/ type of closure:	Separate body and handle / Viti filetto metrico
Terminals:	Screw
Pins and contact tubes:	Silver plated copper alloy
Contact element:	Silver
Self extinguishing degree (GWT):	960°C (Socket contact carrier)
Cable entry device (mobile versions):	Cable gland IP66 / External cable clamp with screws

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WIRING CAPACITY OF THE TERMINALS

Series	Rated current (A)	Conductor cross section (mm ²)	
		min	max
HDS200	200	50	95

■ MAX CABLE SIZE ACCEPTED BY THE CABLE CLAMP/
CABLE GLAND OF MOBILE PLUGS AND CONNECTORS

Series	Rated current (A)	Cable outside diameter (mm)	
		min	max
HDS200	200	22	50

■ CABLE ENTRIES

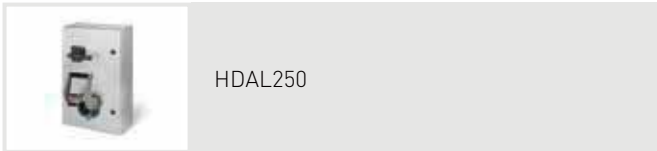
250A		
TOP	REAR	BOTTOM
Open entry 1x M63	Blank side	Cut-out 1x M40



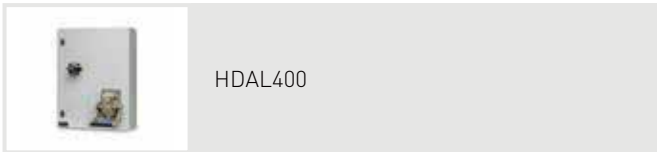
■ HIGH CURRENTS INDUSTRIAL SWITCHED INTERLOCKED SOCKETS



■ VERSIONS



HDAL250



HDAL400

■ REFERENCE STANDARDS

IEC EN 60309-1

IEC EN 60309-4

■ MARKINGS AND DIRECTIVES



■ TECHNICAL CHARACTERISTICS

Rated current:	250A-400A
Rated voltage:	without fuses >50 – 690V with fuses >50 – 690V MCCB 380-440V MCCB+RCD 380-440V
Frequency:	50/60Hz
Insulating voltage:	1000V
Protection degree:	IP65
Installation temperature:	-40°C +60°C
Material:	Sheet steel (Halogen Free)
Finishing:	Painting by cathodic electrophoresis with epoxy resin and finishing with thermosetting epoxy polyester powders
Colour:	Grey RAL 7035
Self extinguishing degree (GWT):	960°C (socket contact carrier) 960°C (switch)
Impact resistance (IK degree):	IK10
Fuses:	250A with fuses NH 1
Auxiliary contacts:	Max 2 auxiliary contacts
Interlock type:	250A without fuses: mechanical 250A with fuses: mechanical 250A-400A MCCB: electrical 250A-400A MCCB+RCD: electrical
Handle lock (with padlock):	OFF
Max diameter of the padlock arch for handle padlocking:	8mm

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ FUSED AND UNFUSED SWITCH-DISCONNECTOR TECHNICAL CHARACTERISTICS 250A 3P, 3P+N+E

Switch type		Without fuses		K2	
		With fuses		KF3	
Switched interlocked socket outlet rated current				250A	
Conventional enclosed thermal current		I_{the}	A	250	
Rated operational current I _e	AC21A	Resistive loads, including moderate overloads	415V	A	250
			500V	A	250
			690V	A	250
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	250
			500V	A	250
			690V	A	250
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	250
			500V	A	200
			690V	A	160
Rated operational power according to utilization category at 415V	AC23A ¹⁾	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	kW	130

For further technical information on the switches, refer to the characteristics of the COMMAND and ISOLATORS series.

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ MCCB AND RCD DEVICE TECHNICAL CHARACTERISTICS 250A-400A 3P+E, 3P+N+E

Switch type			EATON NZMN2-4-A250	EATON LZMC3-4-A400/250-I
Rated current	I_n	A	250	400
Rated voltage	U_e	V	690	690
Rated insulation voltage	U_i	V	1000	1000
Rated impulse withstand voltage	U_{imp}	kV	8	8
Rated service shortcircuit breaking capacity	I_{cs} (415V)	kA	50	36
Ultimate shortcircuit breaking capacity	I_{cu} (415V)	kA	50	36
Earth leakage circuit breaker			PFR-5	PFR-5
Adjustable release	A		0.03-0.1-0.3-0.5-1-5 A	0.03-0.1-0.3-0.5-1-5 A

■ CABLING CAPACITY OF THE ENTRY TERMINALS (SWITCH)

Rated current		250A			400A
		Without fuses	With fuses	With MCCB	With MCCB
Cross-section of the connectable conductors/ palm width	Terminal bolt size	M8	M10	M8	M10
	Palm width	21	25	24	30

■ CABLE ENTRIES

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
250	3P+E-3P+N+E	400x600x200	Top	Blank side
			Bottom	Gland plate
400	3P+E-3P+N+E	600X800X300	Top	Blank side
			Bottom	Gland plate



SWITCH-DISCONNECTORS



REFERENCE STANDARDS

IEC EN 60947-3

UL 508

UL 60947-4-1


MARKINGS AND DIRECTIVES




QUALITY MARKS




VERSIONS




Switching units
- Box




Switching units
- Panel mounting
- Box




Switching units with fuses carrier
- Box




Front operators 67x67 - IP65
- Panel mounting
- Box



Front operators 48x48 - IP65
- Panel mounting
- Box




Front operators 48x48 - IP65 padlocable
- Panel mounting
- Box




Controls for DIN rail slits

TECHNICAL CHARACTERISTICS

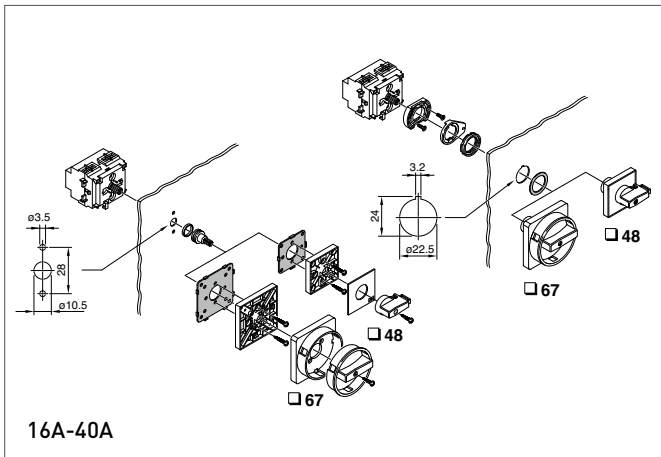
Rated current:	16A-32A-40A-63A-80A 100A-125A-160A
Polarity:	2P, 3P, 3P+N, 4P, 6P, 8P
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, c.c.
Insulating voltage:	690Vac - 600Vdc
Front operators protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Thermoplastic
Fuses:	gG 10,3x38
Self extinguishing degree (GWT):	960°C (switches) 850°C (front operators)
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks)
Padlock arch diameter to be used:	6mm



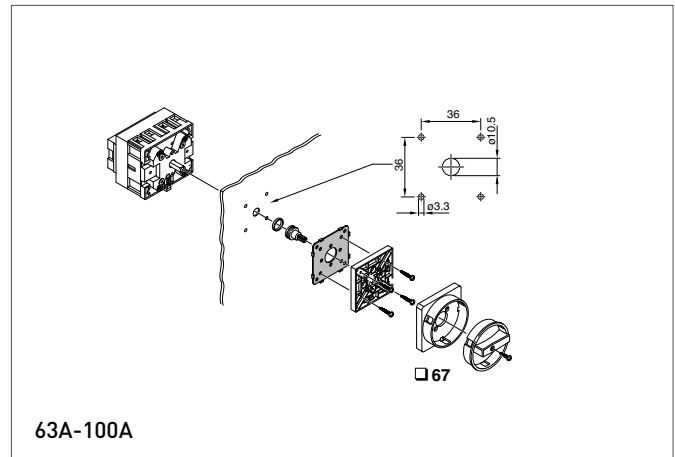
Front operators 70x87
- Panel mounting



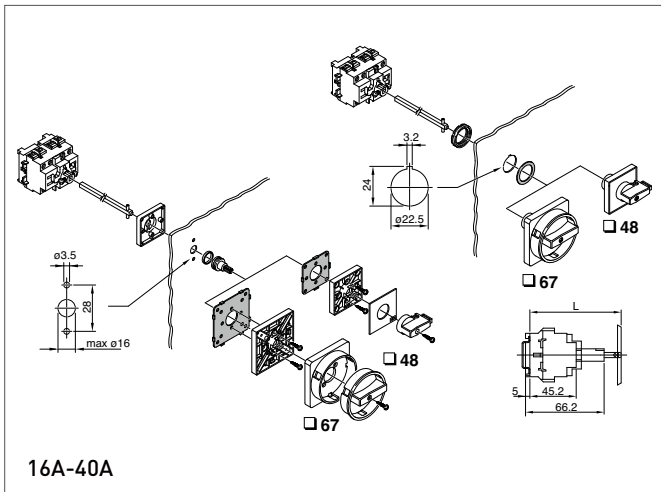
Direct operators

PANEL MOUNTING - TYPE R


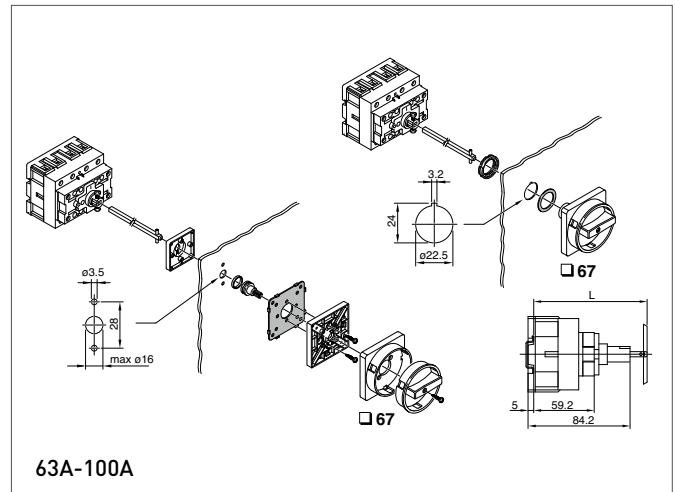
16A-40A



63A-100A

BOX - TYPE B


16A-40A



63A-100A

	590.YMA085	590.YMA185	590.YMA300
L max	120mm	220mm	335mm

L min 80mm.

	590.YMB085	590.YMB185	590.YMB300
L max	128mm	228mm	343mm

L min 98mm.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ TECHNICAL CHARACTERISTICS 2P, 3P, 3P+SN, 3P+N, 4P

Switch size			Y1/YF1				Y2		Y4	Y5		
Rated current In			16A ³⁾	20A	32A ³⁾	40A	63A	80A	100A	125A	160A	
Rated insulation voltage	Ui	VAC	690	690	690	690	690	690	800	800	800	
Rated impulse withstand voltage	Uimp	kV	4	4	4	4	4	4	8	8	8	
Rated thermal current	Ith/Ithe	A	16	20	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A Resistive loads, including moderate overloads	415V	A	16	20	32	40	63	80	100	125	160
		500V	A	16	20	32	32	63	80	100	125	160
		690V	A	16	20	32	32	63	80	100	125	160
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	20	32	40	63	80	100	125	160
		500V	A	16	20	32	32	63	80	100	125	160
		690V	A	16	20	32	32	63	80	-	125	160
	AC23A Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	20	32	35	63	67	100	125	160
		500V	A	16	20	25	25	40	67	-	125	125
		690V	A	16	20	25	25	30	38	-	100	100
	AC23A²⁾ Rated operational power	415V	Kw	7.5	9	15	18.5	33	37	46	55	69
	AC3 Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	18	25	28.5	40	55	-	-	-
		690V	A	-	12	18	20	25	32	-	-	-
	DC22A¹⁾ Mixed resistive and inductive loads, including moderate overloads	250V	A	-	25	32	32	63	-	-	-	-
		600V	A	-	10	10	10	-	-	-	-	-
Short circuit withstand current	Icw (1s)	A	400	400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current		kAeff	10	10	10	10	10	10	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	20	32	40	63	80	100	125	125	
Flexible wires		mm ²	1.5-10	1.5-10	1.5-10	1.5-10	10-35	10-35	10-50	10-70	10-70	
Rigid wires		mm ²	1.5-16	1.5-16	1.5-16	1.5-16	10-35	10-35	10-50	10-70	10-70	

¹⁾ 4P versions with poles in series

²⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

³⁾ Version available with fuse holder switch size F1.

■ TECHNICAL CHARACTERISTICS 6P, 8P

Switch size			Y3				Y4			Y5		
Rated current In			16A	25A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage	Ui	VAC	800	800	800	800	800	800	800	800	800	
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8	8	
Rated thermal current	Ith/Ithe	A	16	25	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	160	80	125	160
		690V	A	16	25	32	40	63	160	80	125	160
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
		500V	A	16	25	32	40	63	160	80	125	160
		690V	A	16	25	32	40	40	40	40	125	160
	AC23A Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	63	63	125	125
		690V	A	16	25	25	25	32	32	32	100	100
	AC23A¹⁾ Rated operational power	415V	Kw	7,5	11	15	18,5	35	37	46	55	69
Short circuit withstand current	Icw (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
Conditional short circuit current		kAeff	50	50	50	50	50	50	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125	
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70	
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70	

For further technical information on the switches, refer to the characteristics of the COMMAND and ISOLATORS series.

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.



ENCLOSED SWITCH-DISCONNECTORS IN DIE-CAST ALUMINIUM ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

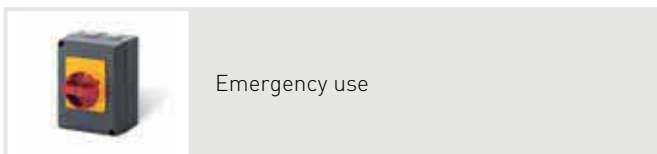
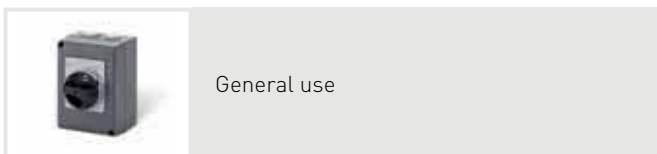
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A ¹⁾ -20A-25A ¹⁾ -32A-40A-63A 80A-100A-125A-160A
Polarity:	1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P, 6P, 8P
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, c.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	16A÷100A IP66 - 125A÷160A IP65
Installation temperature:	-25°C +60°C
Material:	Die-cast aluminium
Finishing:	Painting with thermosetting powder based on saturated carboxylated polyester resins with high resistance to UV rays and atmospheric agents
Colour:	Grey RAL 7015
Self extinguishing degree (GWT):	960°C (switch)
Impact resistance:	20÷100A IK10 - 125÷160A IK08
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock) ²⁾
Max diameter of the padlock arch:	8mm

2P, 3P+N and 8P versions with early make late break neutral pole.
1P+SN and 3P+SN versions with unswitched neutral and solid neutral terminal block.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾ Only for 6 and 8 poles.

²⁾ Only general use versions.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES 1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
20-32-40	1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P	105x150x82	Top/bottom	1xM20 + 1xM25	Threaded open entries
			Rear	-	Blank side
63-80-100	1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P	160x220x107	Top/bottom	2xM32	Threaded open entries
			Rear	-	Blank side
125	3P, 3P+SN, 3P+N	264x315x122	Top/bottom	-	Blank side
			Rear	-	Blank side
160	3P, 3P+SN, 3P+N	315x410x153	Top/bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.
Threaded caps supplied.

■ CABLE ENTRIES 6P, 8P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
16-25-32-40	6P, 8P	150x210x107	Top/bottom	2xM32	Blank side
			Rear	-	Blank side
63-80-100	6P, 8P	264x315x122	Top/Bottom	-	Blank side
			Rear	-	Blank side
63-80-100	6P, 8P	315x410x153	Top/bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

■ CABLE ENTRIES 1P+SN, 2P, 3P, 3P+SN, 3P+N high wiring capacity

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
20-32-40	1P+SN, 2P, 3P, 3P+SN, 3P+N	150x210x107	Top/bottom	2xM32	Threaded open entries
			Rear	-	Blank side
63-80-100	3P, 3P+SN, 3P+N	264x315x122	Top/bottom	-	Blank side
			Rear	-	Blank side
100-125-160	3P, 3P+SN, 3P+N	315x410x153	Top/bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

■ CABLE ENTRIES 6P, 8P high wiring capacity

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
20-32-40	6P, 8P	264x315x122	Top/bottom	-	Blank side
			Rear	-	Blank side
63-80-100-125-160	6P, 8P	315x410x153	Top/bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 20A÷40A 1P+SN

Switch size				Y01			
Rated current In				20A	32A	40A	
Rated insulation voltage	Ui	VAC		250	250	250	
Rated impulse withstand voltage	Uimp	kV		4	4	4	
Thermal current	Ithe	A		20	32	40	
Rated operational current Ie	AC22A	Mixed resistive and inductive loads, including moderate overloads	250V	A	20	32	40
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	250V	A	20	22	25
Short circuit withstand current	Icw	A		480	480	480	
Conditional short circuit current		kAeff		10	10	10	
Associate fuse size for conditional short circuit current - type gG		A		20	32	40	
Flexible wires		mm ²		1.5 - 6	1.5 - 6	1.5 - 6	
Rigid wires		mm ²		1.5 - 6	1.5 - 6	1.5 - 6	

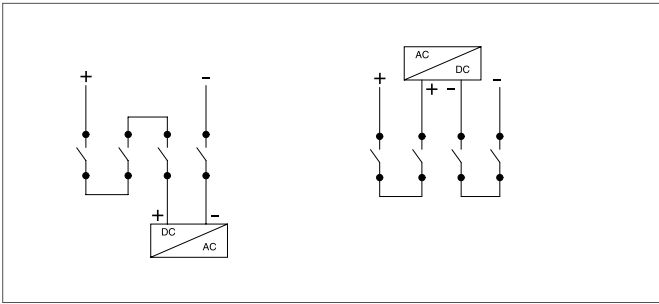
■ TECHNICAL CHARACTERISTICS 20A÷160A 1P+SN 2P, 3P, 3P+N, 4P

Switch size				Y1			Y2		Y4	Y5		
Rated current In				20A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage	Ui	VAC		690	690	690	690	690	800	800	800	
Rated impulse withstand voltage	Uimp	kV		4	4	4	4	4	8	8	8	
Thermal current	Ithe	A		20	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
			500V	A	20	32	32	63	80	100	125	160
			690V	A	20	32	32	63	80	100	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
			500V	A	20	32	32	63	80	100	125	160
			690V	A	20	32	32	63	80	100	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35	63	67	100	125	160
			500V	A	20	25	25	40	67	-	125	125
			690V	A	20	25	25	30	38	-	100	100
	AC23A¹⁾	Rated operational power	415V	Kw	9	15	18.5	33	37	46	55	69
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	25	28.5	40	55	-	-	-
			690V	A	12	18	20	25	32	-	-	-
	DC22A²⁾	Mixed resistive and inductive loads, including moderate overloads	250V	A	25	32	32	63	-	-	-	-
			600V	A	10	10	10	-	-	-	-	-
Short circuit withstand current	Icw (1s)	A		400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current		kAeff		10	10	10	10	10	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A		20	32	40	63	80	100	125	125	
Flexible wires		mm ²		1.5-10	1.5-10	1.5-10	10-35	10-35	10-50	10-70	10-70	
Rigid wires		mm ²		1.5-16	1.5-16	1.5-16	10-35	10-35	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

²⁾ 4P versions with poles in series.

■ 4P VERSIONS POLES CONNECTION IN SERIES FOR USE IN DC



■ TECHNICAL CHARACTERISTICS 16A÷160A 6P, 8P

Switch size			Y3				Y4			Y5			
Rated current In			16A	25A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	Ui	VAC	800	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8	8		
Thermal current	Ithe	A	16	25	32	40	63	80	100	125	160		
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	63	160	80	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	40	40	40	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	63	63	125	125
			690V	A	16	25	25	25	32	32	32	100	100
	AC23A¹⁾	Rated operational power	415V	Kw	7,5	11	15	18,5	35	37	46	55	69
	Short circuit withstand current	Icw (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
	Conditional short circuit current		kAeff	50	50	50	50	50	50	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125		
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.



■ TECHNICAL CHARACTERISTICS 100A-125A-160A 3P, 3P+SN, 3P+N, 6P, 8P – HIGH WIRING CAPACITY

Switch size			K1		K2
Rated current In			100A	125A	160A
Rated insulation voltage	Ui	(V)	1000	1000	1000
Rated impulse withstand voltage	Uimp	(kV)	8	8	12
Thermal current	Ithe	(A)	100	125	160
Rated operational current Ie	AC21A/B Resistive loads, including moderate overloads	415V (A)	100	125	160
		500V (A)	100	125	160
		690V (A)	100	125	160
	AC22A/B Mixed resistive and inductive loads, including moderate overloads	415V (A)	100	125	160
		500V (A)	100	125	160
		690V (A)	100	125	160
	AC23A/B Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V (A)	100	125	160
		500V (A)	80	100	125
		690V (A)	63	80	100
	AC23A ¹⁾ Rated operational power	415V kW	52	65	85
Short circuit withstand current 1sec		(kA)	5	5	8
Conditional short circuit current		(kA)	50	50	50
Associate fuse size for conditional short circuit current		(A)	100	125	160
Terminal bolt size		mm	M6	M6	M8
Palm width		mm	15	15	21

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code	590.PL004001 590.PL004002	590.PL004005	590.PL004003 590.PL004004	590.PL004006	590.PL005	590.PL006011 590.PL0060021
Switch type	Y1		Y2		Y3-Y4-Y5	K1-K2
Contact type	NC NA	NO/NC	NC NA	NO/NC	NO/NC	NO/NC
Break activation	Simultaneous	Break before main contacts	Simultaneous	Break before main contacts	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	16A	10A	10A
	250V	16A	16A	16A	16A	16A
Rated operational current AC15	400V	4.5A		4.5A	-	
	250V	6A		6A	-	

ENCLOSED FUSE SWITCH-DISCONNECTORS IN DIE-CAST ALUMINIUM ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

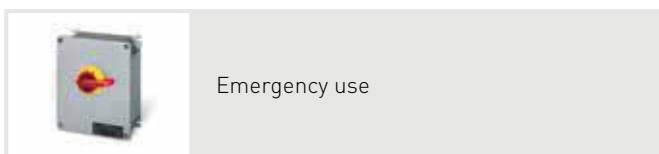
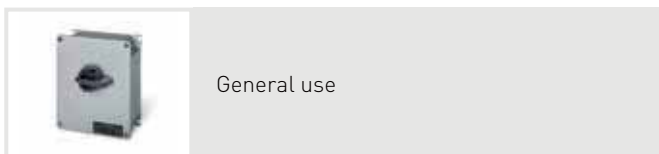
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A-80A
Polarity:	2P, 3P, 3P+N, 4P ¹⁾
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, c.c.
Insulating voltage:	690Vac - 600Vdc
Material:	Die-cast aluminium
Finishing:	Painting with thermosetting powder based on saturated carboxylated polyester resins with high resistance to UV rays and atmospheric agents
Colour:	Grey RAL 9006
Self extinguishing degree (GWT):	960°C (switch)
Protection degree:	IP65
Impact resistance:	IK08
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	20A÷40A 6mm 63A÷630A 8mm

2P and 3P+N versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾Only 16A and 32A rated currents.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES 2P, 3P, 3P+N, 4P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
16-32	2P, 3P,3P+N, 4P	253x217x93	Top/Bottom	Blank side
			Rear	Blank side
63-80	3P, 3P+N	410x315x128	Top/Bottom	Blank side
			Rear	Blank side

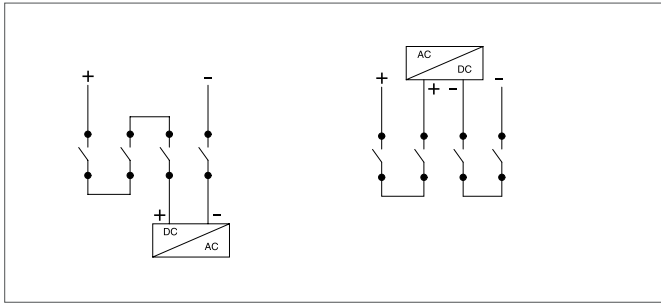
Special drillings on request.

■ TECHNICAL CHARACTERISTICS 16A÷80A 2P, 3P, 3P+N, 4P

Switch size			F1		KF1			
Rated current In			16A	32A	63A	80A		
Rated insulation voltage	Ui	VAC	690	690	1000	1000		
		VDC	400	400	1500	1500		
Rated impulse withstand voltage	Uimp	kV	4	4	8	8		
Rated thermal current	Ith/Ithe	A	16	32	63	80		
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	16	32	63	80
			500V	A	16	32	63	80
			690V	A	16	32	63	80
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	32	63	80
			500V	A	16	32	63	80
			690V	A	16	32	63	80
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	32	63	80
			500V	A	16	32	45	63
			690V	A	16	25	32	45
	DC21A	Resistive loads, including moderate overloads	220V	A	25	32	63	80
			400V	A	-	-	-	-
			600V	A	-	-	-	-
	DC22A ¹⁾	Mixed resistive and inductive loads, including moderate overloads	220V	A	20	32	63	80
			400V	A	-	-	-	-
600V			A	-	-	-	-	
DC23A ¹⁾	Switching of motor loads or other highly inductive loads (ie. motors in series)	220V	A	-	-	50	50	
		400V	A	-	-	-	-	
Conditional short circuit current		kAeff	10	10	100	100		
Associate fuse size for conditional short circuit current		A	16	32	63	80		
Fuse type			gG	gG	DIN/BS	DIN/BS		
Flexible wires		mm ²	1,5-10	1,5-10	-	-		
Rigid wires		mm ²	1,5-16	1,5-16	-	-		
Terminal bolt size		mm			M6	M6		
Palm width		mm			15	15		

¹⁾ 4P versions with poles in series (16A-32A).

■ 4P VERSIONS POLES CONNECTION IN SERIES FOR USE IN DC



■ FUSES TYPE

Rated current	16A	32A	63A	80A
DIN type fuses	-	-	NH C00	NH C00
BS type fuses	-	-	A2-A3	OSD
Cylindrical fuses (gG)	10.3x38	10.3x38	-	-

■ AUXILIARY CONTACTS

Code		590.PL004001 590.PL004002	590.PL004005	590.PL0060011 590.PL0060021
Switch type		F1	F1	KF1
Contact type		NA NC	NO/NC	NO/NC
Break activation		Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	10A
	250V	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	-
	250V	6A	-	-



ENCLOSED CHANGE-OVER SWITCHES I-0-II IN DIE-CAST ALUMINIUM ENCLOSURE



VERSIONS



General use I-0-II

REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A-25A-32A-40A-63A-80A 100A-125A-160A
Polarity:	3P, 3P+N
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz
Insulating voltage:	690Vac - 600Vdc
Protection degree:	16A÷40A IP66 63A÷160A IP65
Installation temperature:	-25°C +60°C
Material:	Die-cast aluminium
Finishing:	Painting with thermosetting powder based on saturated carboxylated polyester resins with high resistance to UV rays and atmospheric agents
Colour:	Grey RAL 7015
Self extinguishing degree (GWT):	960°C (switch)
Impact resistance:	16A÷40A IK10 63A÷160A IK08
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock) ^o
Max diameter of the padlock arch:	16A÷160A 8mm

3P+N and 8P versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES 3P, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
			Top/bottom	2xM32	Threaded caps supplied
16-25-32-40	3P, 3P+N	150x210x107	Top/bottom	2xM32	Threaded caps supplied
			Rear	-	-
63-80-100	3P, 3P+N	264x315x122	Top/bottom	-	Blank side
			Rear	-	Blank side
125-160	3P, 3P+N	315x410x153	Top/bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 16A÷160A 3P, 3P+N

Switch size			C1				C2			C3		
Rated current I _n			16A	25A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage	U_i	VAC	800	800	800	800	800	800	800	800	800	
Rated impulse withstand voltage	U_{imp}	kV	8	8	8	8	8	8	8	8	8	
Thermal current	I_{the}	A	16	25	32	40	63	80	100	125	160	
Rated operational current I _e	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	160	80	125	160
		690V	A	16	25	32	40	63	160	80	125	160
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
		500V	A	16	25	32	40	63	160	80	125	160
		690V	A	16	25	32	40	40	40	40	125	160
	AC23A Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	63	63	125	125
		690V	A	16	25	25	25	32	32	32	100	100
	AC23A¹⁾ Rated operational power	415V	kW	7,5	11	15	18,5	35	37	46	55	69
	Short circuit withstand current	I_{cw}	A	1100	1100	1100	1100	1500	1500	1500	3000	3000
	Conditional short circuit current		kA _{eff}	50	50	50	50	50	50	30	50	50
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125	
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70	
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

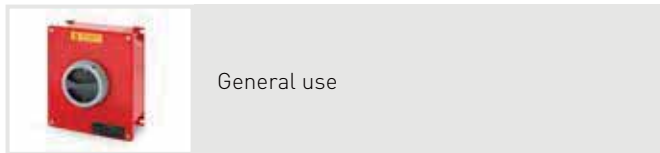
Code	590.PL005	
Switch type	C1-C2-C3	
Contact type	NO/NC	
Break activation	Break before main contacts	
Rated thermal current	400V	10A
	250V	16A



■ FIRE RATED ENCLOSED SWITCH-DISCONNECTORS F200



■ VERSIONS



General use

■ REFERENCE STANDARDS

IEC EN 60947-3

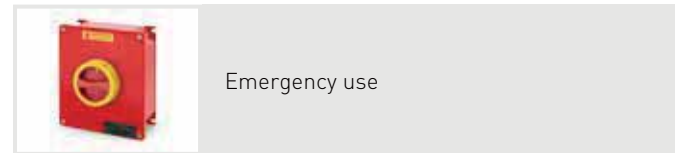
BS EN 12101-3

EN 60529

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



Emergency use

■ TECHNICAL CHARACTERISTICS

Rated current:	16A ¹⁾ -20A- 25A ¹⁾ - 32A-40A-63A 80A-100A- 125A-160A-200A 315A-500A-630A
Polarity:	1P+SN, 2P, 3P, 3P+SN, 3P+N, 6P
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz
Insulating voltage:	690Vac - 600Vdc
Protection degree:	16A÷100A IP66 125A÷630A IP65
Installation temperature:	-25°C +60°C
Material:	16A÷160A Die-cast aluminium
Finishing:	Painting with thermosetting powder based on saturated carboxylated polyester resins with high resistance to UV rays and atmospheric agents
Material:	200A÷630A Sheet steel

Finishing:	Painting by cathodic electrophoresis with epoxy resin and finishing with thermosetting epoxy polyester powders
Colour:	Red RAL 3020
Self extinguishing degree (GWT):	960°C (switch)
Fire rated classification:	F200 (200°C for 120min.)
Impact resistance:	16÷100A IK10 125÷160A IK08
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	8mm

2P and 3P+N versions with early make late break neutral pole.
1P+SN and 3P+SN versions with unswitched neutral (solid neutral terminal block).
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾ Only for 6 poles.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - ALUMINIUM ENCLOSURE

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - SHEET STEEL ENCLOSURE

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES

Aluminium enclosure 20A÷160A 1P+SN, 2P, 3P, 3P+SN, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
20-32-40	1P+SN, 2P, 3P, 3P+SN, 3P+N	105x150x82	Top/bottom	Blank side
			Rear	Blank side
63-80-100	1P+SN, 2P, 3P, 3P+SN, 3P+N	150x210x107	Top/bottom	Blank side
			Rear	Blank side
125	3P, 3P+SN, 3P+N	264x315x122	Top/bottom	Blank side
			Rear	Blank side
160	3P, 3P+SN, 3P+N	315x410x153	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

■ CABLE ENTRIES

Aluminium enclosure 16A÷160A 6P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
16-25-32-40	6P	150x210x107	Top/bottom	Blank side
			Rear	Blank side
63-80-100	6P	264x315x122	Top/bottom	Blank side
			Rear	Blank side
125-160	6P	315x410x153	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

Sheet steel enclosures 200A÷630A 3P, 3P+SN, 3P+N, 6P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
200-250	3P, 3P+SN, 3P+N	300x500x200	Top	Blank side
			Bottom	Gland plate
	6P	600x800x300	Top	Blank side
			Bottom	Gland plate
315-400	3P, 3P+SN, 3P+N	400x600x200	Top	Blank side
			Bottom	Gland plate
	6P	800x800x300	Top	Blank side
			Bottom	Gland plate
500-630	3P, 3P+SN, 3P+N	500x700x250	Top	Blank side
			Bottom	Gland plate
	6P	1000x1000x300	Top	Blank side
			Bottom	Gland plate

Special drillings on request.



■ TECHNICAL CHARACTERISTICS 20A-40A 1P+SN

Switch size				Y01			
Rated current In				20A	32A	40A	
Rated insulation voltage		Ui	VAC	250	250	250	
Rated impulse withstand voltage		Uimp	kV	4	4	4	
Thermal current		Ithe	A	20	32	40	
Rated operational current Ie	AC22A	Mixed resistive and inductive loads, including moderate overloads	250V	A	20	32	40
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	250V	A	20	22	25
Short circuit withstand current		Icw	A	480	480	480	
Conditional short circuit current			kAeff	10	10	10	
Associate fuse size for conditional short circuit current - type gG			A	20	32	40	
Flexible wires			mm ²	1.5 - 6	1.5 - 6	1.5 - 6	
Rigid wires			mm ²	1.5 - 6	1.5 - 6	1.5 - 6	

■ TECHNICAL CHARACTERISTICS 20A÷160A 1P+SN 2P, 3P, 3P+SN, 3P+N

Switch size				F2R1			F2R2		F2R4	F2R5		
Rated current In				20A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage		Ui	VAC	690	690	690	690	690	800	800	800	
Rated impulse withstand voltage		Uimp	kV	4	4	4	4	4	8	8	8	
Thermal current		Ithe	A	20	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
			500V	A	20	32	32	63	80	100	125	160
			690V	A	20	32	32	63	80	100	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
			500V	A	20	32	32	63	80	100	125	160
			690V	A	20	32	32	63	80	100	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35	63	67	100	125	160
			500V	A	20	25	25	40	67	-	125	125
			690V	A	20	25	25	30	38	-	100	100
	AC23A¹⁾	Rated operational power	415V	Kw	9	15	18.5	33	37	46	55	69
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	25	28.5	40	55	-	-	-
			690V	A	12	18	20	25	32	-	-	-
Short circuit withstand current		Icw (1s)	A	400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current			kAeff	10	10	10	10	10	30	50	50	
Associate fuse size for conditional short circuit current - type gG			A	20	32	40	63	80	100	125	125	
Flexible wires			mm ²	1.5-10	1.5-10	1.5-10	10-35	10-35	10-50	10-70	10-70	
Rigid wires			mm ²	1.5-16	1.5-16	1.5-16	10-35	10-35	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ TECHNICAL CHARACTERISTICS 16A÷160A -6P

Switch size			F2R3				F2R4			F2R5		
Rated current In			16A	25A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage	Ui	VAC	800	800	800	800	800	800	800	800	800	
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8	8	
Thermal current	Ithe	A	16	25	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	160	80	125	160
		690V	A	16	25	32	40	63	160	80	125	160
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
		500V	A	16	25	32	40	63	160	80	125	160
		690V	A	16	25	32	40	40	40	40	125	160
	AC23A Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	63	63	125	125
		690V	A	16	25	25	25	32	32	32	100	100
	AC23A ¹⁾	Rated operational power	415V	Kw	7,5	11	15	18,5	35	37	46	55
Short circuit withstand current	Icw (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
Conditional short circuit current		kAeff	50	50	50	50	50	50	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125	
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70	
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ TECHNICAL CHARACTERISTICS 200A÷630A 3P, 3P+SN, 3P+N, 6P

Switch size			F2R6			F2R7			F2R8	
Rated current In			160	200	250	315	400	500	630	
Rated insulation voltage	Ui	(V)	1000	1000	1000	1000	1000	1000	1000	
Rated impulse withstand voltage	Uimp	kV)	12	12	12	12	12	12	12	
Thermal current	Ithe	(A)	160	200	250	315	400	500	800	
Rated operational current Ie	AC21A/B Resistive loads, including moderate overloads	415V	(A)	160	200	250	315	400	500	630/800
		500V	(A)	160	200	250	315	400	500	630/800
		690V	(A)	160	200	250	315	400	500	630/800
	AC22A/B Mixed resistive and inductive loads, including moderate overloads	415V	(A)	160	200	250	315	400	500	630/800
		500V	(A)	160	200	250	315	400	400	630
		690V	(A)	160	200	250	315	400	400	630
	AC23A/B Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	(A)	160	200	250	315	400	500	630
		500V	(A)	125	160	200	250	315	315	500
		690V	(A)	100	125	160	200	250	250	400
	AC23A ¹⁾	Rated operational power	415V	kW	85	105	130	165	200	210
Short circuit withstand current 1sec		(kA)	8	8	8	13	13	13	26.5	
Conditional short circuit current		(kA)	50	50	50	50	50	50	50	
Associate fuse size for conditional short circuit current - type gG		(A)	160	200	250	315	400	400	630	
Terminal bolt size		mm ²	M8	M8	M8	M10	M10	M10	M12	
Palm width		mm	21	21	21	25	25	25	30	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.



■ AUXILIARY CONTACTS

Code		590.PL004001 590.PL004002	590.PL004005	590.PL004003 590.PL004004	590.PL004006	590.PL005
Switch type		F2R1		F2R2		F2R3-F2R4-F2R5
Contact type		NC NA	NO/NC	NC NA	NO/NC	NO/NC
Break activation		Simultaneous	Break before main contacts	Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	16A	10A	10A
	250V	16A	16A	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	4.5A	-	-
	250V	6A	-	6A	-	-

■ AUXILIARY CONTACTS

Code		590.PL004012 590.PL004022	590.PL004013 590.PL004023	590.PL006011 590.PL006021
Switch type		F2R6	F2R7	F2R8
Contact type		NO/NC	NO/NC	NO/NC
Break activation		Break before main contacts	Break before main contacts	Break before main contacts
Rated thermal current	400V	10A	10A	10A
	250V	16A	16A	16A
Rated operational current AC15	400V	-	-	-
	250V	-	-	-

■ FIRE RATED ENCLOSED SWITCH-DISCONNECTORS F400



■ REFERENCE STANDARDS

IEC EN 60947-3

BS EN 12101-3

EN 60529

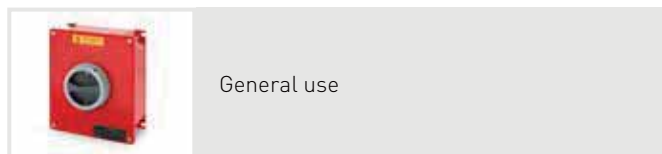
■ MARKINGS AND DIRECTIVES



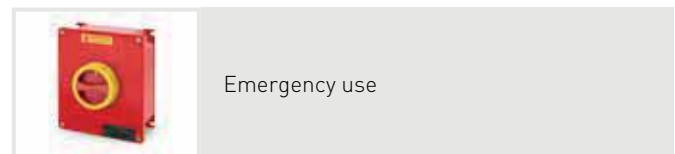
■ QUALITY MARKS



■ VERSIONS



General use



Emergency use

■ TECHNICAL CHARACTERISTICS

Rated current:	20A-32A-40A-63A-80A-100A 125A-160A-200A-315A-400A-630A
Polarity:	2P, 3P, 3P+N, 6P
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	20A÷160A Die-cast aluminium
Finishing:	Painting with thermosetting powder based on saturated carboxylated polyester resins with high resistance to UV rays and atmospheric agents
Material:	200A÷630A Sheet steel

Finishing:	Painting by cathodic electrophoresis with epoxy resin and finishing with thermosetting epoxy polyester powders
Colour:	Rosso RAL 3020
Self extinguishing degree (GWT):	960°C (switch)
Fire rated classification:	F400 (400°C for 120min.)
Impact resistance:	20÷160A IK08 200A÷630A IK10
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	20A÷40A 6mm 63A÷630A 8mm

2P and 3P+N versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - ALUMINIUM ENCLOSURE

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - INVOLUCRO IN LAMIERA DI ACCIAIO

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES

Aluminium enclosure 20A÷160A all polarities and 160A 6P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
20-32-40	2P, 3P, 3P+N	192x168x80	Top/bottom	Blank side
			Rear	Blank side
	6P	253x217x93	Top/bottom	Blank side
			Rear	Blank side
63-80-100	2P, 3P, 3P+N	253x217x93	Top/bottom	Blank side
			Rear	Blank side
	6P	314x264x122	Top/bottom	Blank side
			Rear	Blank side
125-160	3P, 3P+N	410x315x153	Top/bottom	Blank side
			Rear	Blank side
125-160	6P	500x400x200 ¹⁾	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

¹⁾ Sheet steel enclosure with hinged door.

■ CABLE ENTRIES

Sheet steel enclosure with hinged door 160A 6P and 200A÷630A 3P, 3P+N, 6P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
160	6P	500x400x200	Top/bottom	Gland plate
			Rear	Blank side
200-250	3P, 3P+N	700x500x200	Top/bottom	Gland plate
			Rear	Blank side
	6P	800x600x300	Top/bottom	Gland plate
			Rear	Blank side
315-400	3P, 3P+N	700x500x250	Top/bottom	Gland plate
			Rear	Blank side
	6P	800x800x300	Top/bottom	Gland plate
			Rear	Blank side
630	3P, 3P+N	800x800x300	Top/bottom	Gland plate
			Rear	Blank side
	6P	800x1000x300	Top/bottom	Gland plate
			Rear	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 20A÷160A 2P, 3P, 3P+N, 6P

Switch size				FR1			FR2			FR3		
Rated current In				20A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage		Ui	VAC	690	690	690	800	800	800	800	800	
Rated impulse withstand voltage		Uimp	kV	6	6	6	8	8	8	8	8	
Rated thermal current		Ith/Ithe	A	20	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35	63	80	100	125	10
	AC23A¹⁾	Rated operational power	415V	kW	9	15	18.5	35	37	46	55	69
Short circuit withstand current		Icw	A	400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current			kAeff	10	10	10	30	30	30	50	50	
Associate fuse size for conditional short circuit current - type gG			A	16	32	40	63	80	100	125	125	
Flexible wires			mm ²	1.5-10	1.5-10	1.5-10	10-50	10-50	10-50	10-70	10-70	
Rigid wires			mm ²	1.5-16	1.5-16	1.5-16	10-50	10-50	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ TECHNICAL CHARACTERISTICS 200A÷630A 3P, 3P+N, 6P

Switch size				FR4		FR5		FR6	
Rated current In				200A	250A	315A	400A	630A	
Rated insulation voltage		Ui	VAC	1000	1000	1000	1000	1000	
Rated impulse withstand voltage		Uimp	kV	8	8	8	8	8	
Rated thermal current		Ith/Ithe	A	200	250	315	400	630	
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	200	250	315	400	630
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	200	250	315	400	630
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	200	250	315	400	630
	AC23A¹⁾	Rated operational power	415V	kW	105	130	165	210	330
Short circuit withstand current		Icw (1s)	A	13	13	13	13	13	
Conditional short circuit current			kAeff	50	50	50	50	50	
Associate fuse size for conditional short circuit current - type gG			A	200	250	315	400	630	
Terminal bolt size			mm ²	M8 ²⁾ /M10	M10	M10	M10	M12	
Palm width			mm ²	25	25	25	25	30	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

²⁾ For versions 6P.



ENCLOSED SWITCH-DISCONNECTORS IN HEAVY DUTY THERMOPLASTIC ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



General use



Emergency use

TECHNICAL CHARACTERISTICS

Rated current:	20A-32A-40A
Polarity:	2P, 3P, 3P+N
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, c.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP66
Installation temperature:	-25°C +60°C
Material:	Heavy duty thermoplastic
Colour:	Grey RAL 7016
Insulation class:	Class II (double insulation) □
Self extinguishing degree (GWT):	960°C (body) 960°C (switch)
Impact resistance at -40°C:	IK10
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Padlock arch diameter to be used:	6mm

2P and 3P+N versions with early make late break neutral pole.

Earth conductor connection terminal.

Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES 2P, 3P,3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
20-32-40	2P, 3P,3P+N	115x190x128	Top	Blank side
			Bottom	Blank side ¹⁾
			Rear	Blank side

Special drillings on request.

¹⁾Blank side with drilling point marks.

■ TECHNICAL CHARACTERISTICS 20A÷40A 2P, 3P, 3P+N

Switch size				Y1			
Rated current In				20A	32A	40A	
Rated insulation voltage		Ui	VAC	690	690	690	
Rated impulse withstand voltage		Uimp	kV	4	4	4	
Thermal current		Ithe	A	20	32	40	
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	20	32	40
			500V	A	20	32	32
			690V	A	20	32	32
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40
			500V	A	20	32	32
			690V	A	20	32	32
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35
			500V	A	20	25	25
			690V	A	20	25	25
	AC23A¹⁾	Rated operational power	415V	Kw	9	15	18.5
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	25	28.5
			690V	A	12	18	20
Short circuit withstand current		Icw (1s)	A	400	400	400	
Conditional short circuit current			kAeff	10	10	10	
Associate fuse size for conditional short circuit current - type gG			A	20	32	40	
Flexible wires			mm ²	1.5-10	1.5-10	1.5-10	
Rigid wires			mm ²	1.5-16	1.5-16	1.5-16	

¹⁾This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code	590.PL004001 590.PL004002	590.PL004005	
Switch type			
Y1			
Contact type	NC NA	NO/NC	
Break activation	Simultaneous	Break before main contacts	
Rated thermal current	400V	16A	10A
	250V	16A	16A
Rated operational current AC15	400V	4.5A	
	250V	6A	

ENCLOSED SWITCH-DISCONNECTORS IN METAL ENCLOSURE WITH HINGED DOOR



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

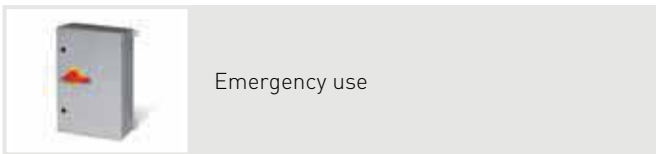
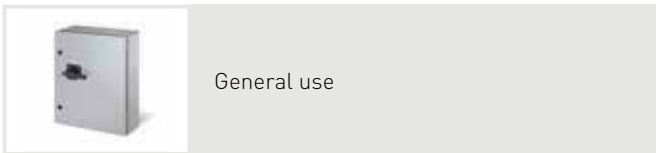
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	100A-125A-160A-200A-250A-315A 400A-500A-630A-800A-1000A 1250A-1600A
Polarity:	3P, 3P+SN, 3P+N, 6P, 8P
Rated voltage:	690Vac
Frequency:	50-60Hz
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Sheet steel
Finishing:	Painting by cathodic electrophoresis with epoxy resin and finishing with thermosetting epoxy polyester powders
Colour:	RAL 7035
Self extinguishing degree (GWT):	960°C (switch)
Impact resistance:	IK10
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks)
Max diameter of the padlock arch:	8mm

3P+N and 8P versions with early make late break neutral pole.
3P+SN versions with unswitched neutral (solid neutral terminal block).
Earth conductor connection threaded bar.
Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

3P, 3P+SN, 3P+N sheet steel enclosures with hinged door and top/bottom cable entries.

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top	Blank side
160-200-250	3P, 3P+SN, 3P+N	300x500x200	Bottom	Gland plate
			Top	Blank side
315-400	3P, 3P+SN, 3P+N	400x600x200	Bottom	Gland plate
			Top	Blank side
500-630	3P, 3P+SN, 3P+N	500x700x250	Bottom	Gland plate
			Top	Blank side
800-1000-1250-1600	3P, 3P+SN, 3P+N	600x1000x300	Bottom	Gland plate
			Top	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

3P, 3P+SN, 3P+N sheet steel enclosures with hinged door and bottom/bottom cable entries equipped with connection bar system.

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top	Blank side
160-200-250	3P, 3P+SN, 3P+N	300x500x200	Bottom	Gland plate
			Top	Blank side
315-400	3P, 3P+SN, 3P+N	400x600x200	Bottom	Gland plate
			Top	Blank side
500	3P, 3P+SN, 3P+N	500x700x250	Bottom	Gland plate
			Top	Blank side
630-800	3P, 3P+SN, 3P+N	800x800x300	Bottom	Gland plate
			Top	Blank side
1000-1250-1600	3P, 3P+SN, 3P+N	1000x1000x300	Bottom	Gland plate
			Top	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

6P and 8P sheet steel enclosures with hinged door and top/bottom cable entries.

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top	Blank side
100-125	6P, 8P	400x500x200	Bottom	Gland plate
			Top	Blank side
160	6P, 8P	500x700x250	Bottom	Gland plate
			Top	Blank side
200-250	6P, 8P	600x800x300	Bottom	Gland plate
			Top	Blank side
315-400-500	6P, 8P	800x800x300	Bottom	Gland plate
			Top	Blank side
630	6P, 8P	1000x1000x300	Bottom	Gland plate
			Top	Blank side

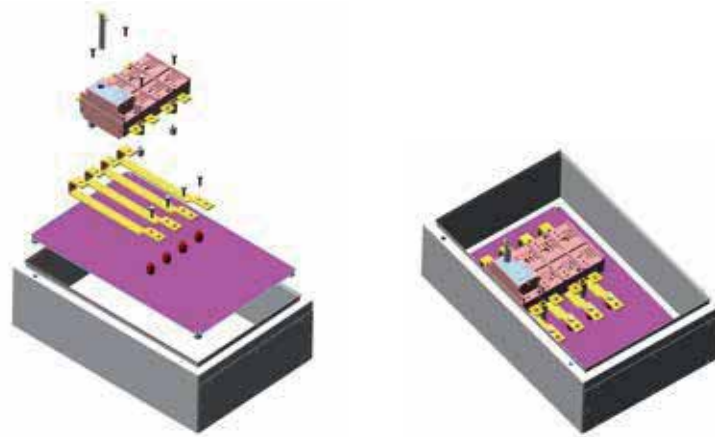
Special drillings on request.



■ BOTTOM/BOTTOM ENTRY VERSIONS

CONNECTION BAR SYSTEM FOR BOTTOM/BOTTOM ENTRIES

Insulated bar system which allows the wiring of both incoming and outgoing cables from the bottom side only, without cable bending.



■ TECHNICAL CHARACTERISTICS 100A÷1600A 3P, 3P+SN, 3P+N, 6P, 8P

Switch size			K1		K2			K3		K4	K5		K6			
Rated current In			100	125	160	200	250	315	400	500	630	800	1000	1250	1600 ²⁾	
Rated insulation voltage	Ui	(V)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Rated impulse withstand voltage	Uimp	(kV)	8	8	12	12	12	12	12	12	12	12	12	12	12	
Rated thermal current	Ith/Ithe	(A)	100	125	160	200	250	315	400	500	800	800	1000	1250	1600	
Rated operational current Ie	AC21A/B	Resistive loads, including moderate overloads	415V (A)	100	125	160	200	250	315	400	500	630/800	800	1000	1250	1600
		500V (A)	100	125	160	200	250	315	400	500	630/800	800	1000	1250	1600	
		690V (A)	100	125	160	200	250	315	400	500	630/800	800	1000	1250	1250	
	AC22A/B	Mixed resistive and inductive loads, including moderate overloads	415V (A)	100	125	160	200	250	315	400	500	630/800	800	1000	1250	1600
			500V (A)	100	125	160	200	250	315	400	400	630	800	1000	1250	1250
			690V (A)	100	125	160	200	250	315	400	400	630	800	1000	1250	400
	AC23A/B	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V (A)	100	125	160	200	250	315	400	500	630	800	1000	1250	1250
			500V (A)	80	100	125	160	200	250	315	315	500	800	800	800	800
			690V (A)	63	80	100	125	160	200	250	250	400	400	400	400	400
	AC23A¹⁾	Rated operational power	415V kW	52	65	85	105	130	165	200	210	330	420	525	600	630
	Short circuit withstand current 1sec		(kA)	5	5	8	8	8	13	13	13	26.5	35	35	35	60
	Conditional short circuit current		(kA)	50	50	50	50	50	50	50	50	50	100	100	100	-
Associate fuse size for conditional short circuit current - type gG		(A)	100	125	160	200	250	315	400	400	630	800	1000	1000	-	
Terminal bolt size		mm ²	M6	M6	M8	M8	M8	M10	M10	M10	M12	M16	M16	M16	2xM14	
Palm width		mm	15	15	21	21	21	25	25	25	30	50	50	50	60	

Full current neutral pole available on request.

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

²⁾ 1250A rated neutral pole.

■ AUXILIARY CONTACTS

Code		590.PL006011 590.PL006021	590.PL006012 590.PL006022	590.PL006013 590.PL006023
Switch type		K1-K2	K3-K5-K6	K4
Contact type		NO/NC	NO/NC	NO/NC
Break activation		Break before main contacts	Break before main contacts	Break before main contacts
Rated thermal current	400V	10A	10A	10A
	250V	16A	16A	16A

ENCLOSED FUSE SWITCH-DISCONNECTORS WITH HINGED DOOR



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

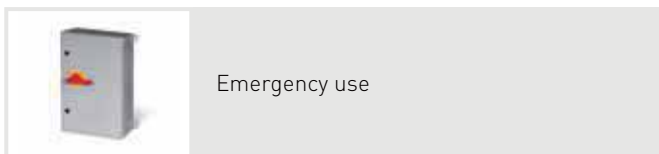
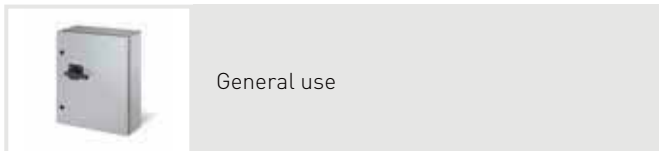
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	100A-125A-160A-200A-250A 315A-400A-630A
Polarity:	3P, 3P+N
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz
Insulating voltage:	690Vac - 600Vdc
Installation temperature:	-25°C +60°C
Material:	Sheet steel
Finishing:	Painting by cathodic electrophoresis with epoxy resin and finishing with thermosetting epoxy polyester powders
Colour:	Grey RAL 7035
Self extinguishing degree (GWT):	960°C (switch)
Protection degree:	IP65
Impact resistance (IK degree):	IK10
Handle lock (with padlock):	OFF (3 padlocks)
Auxiliary contacts:	Max 2 auxiliary contacts
Max diameter of the padlock arch:	8mm

3P+N versions with early make late break neutral pole.
Earth conductor connection threaded bar.
Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES 3P, 3P+N with top/bottom cable entries.

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top	Bottom
100-125-160	3P, 3P+N	300x500x200	Top	Gland plate
			Bottom	Blank side
200-250	3P, 3P+N	400x600x200	Top	Gland plate
			Bottom	Blank side
315-400	3P, 3P+N	500x700x250	Top	Gland plate
			Bottom	Blank side
630	3P, 3P+N	600x800x300	Top	Gland plate
			Bottom	Blank side

Special drillings on request.

■ CABLE ENTRIES 3P, 3P+N with bottom/bottom cable entries equipped with connection bar system

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top	Bottom
100-125-160	3P, 3P+N	300x500x200	Top	Gland plate
			Bottom	Blank side
200-250	3P, 3P+N	400x600x250	Top	Gland plate
			Bottom	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 100A÷630A 3P, 3P+N

Switch size				KF2			KF3		KF4		KF5	
Rated current In				100A	125A	160A	200A	250A	315A	400A	630A	
Rated insulation voltage	Ui	VAC		1000	1000	1000	1000	1000	1000	1000	1000	
		VDC		1500	1500	1500	1500	1500	1500	1500	1500	
Rated impulse withstand voltage	Uimp	kV		12	12	12	12	12	12	12	12	
Rated thermal current	Ith/Ithe	A		100	125	160	200	250	315	400	630	
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	100	125	160	200	250	315	400	630
			500V	A	100	125	160	200	250	315	400	630
			690V	A	100	125	160	200	250	315	400	630
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	100	125	160	200	250	315	400	630
			500V	A	100	125	160	200	250	315	400	630
			690V	A	100	125	160	200	250	315	400	630
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	100	125	160	200	250	315	400	630
			500V	A	80	100	125	160	200	250	315	500
			690V	A	63	80	100	125	160	200	250	400
	DC21A	Resistive loads, including moderate overloads	220V	A	100	125	160	200	250	315	400	630
			400V	A	100	125	160	200	250	315	400	630
			600V	A	-	-	-	-	-	315	400	630
Conditional short circuit current			kAeff	50	50	50	50	50	50	50	50	
Associate fuse size for conditional short circuit current			A	100	125	160	200	250	315	400	630	
Fuse type				DIN/BS	DIN/BS	DIN/BS	DIN/BS	DIN/BS	DIN/BS	DIN/BS	DIN/BS	
Flexible wires			mm ²	-	-	-	-	-	-	-	-	
Rigid wires			mm ²	-	-	-	-	-	-	-	-	
Terminal bolt size			mm	M8	M8	M8	M10	M10	M12	M12	M16	
Palm width			mm	21	21	21	25	25	30	30	50	

■ FUSES TYPE

Rated current (A)	100A	125A	160A	200A	250A	315A	400A	630A
DIN type fuses	NH 00	NH 00	NH 00	NH 1	NH 1	NH 2	NH 2	NH 3
BS type fuses	A4	DEO	DEO	B1-B2	B1-B3	B1-B3	B1-B4	C2
Cylindrical fuses (gG)	-	-	-	-	-	-	-	-

■ AUXILIARY CONTACTS

Code		590.PL006011 590.PL006021	590.PL006012 590.PL006022	590.PL006013 590.PL006023
Switch type		KF2	KF3-KF5	KF4
Contact type		NO/NC	NO/NC	NO/NC
Break activation		Break before main contacts	Break before main contacts	Break before main contacts
Rated thermal current	400V	10A	10A	10A
	250V	16A	16A	16A



- ENCLOSED CHANGE-OVER SWITCHES I-0-II IN METAL ENCLOSURE WITH HINGED DOOR



- REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

- MARKINGS AND DIRECTIVES



- QUALITY MARKS



- VERSIONS



General use

- TECHNICAL CHARACTERISTICS

Rated current:	100A-125A-160A-200A-250A 315A-400A-500A-630A
Polarity:	3P, 3P+N
Rated voltage:	690Vac
Frequency:	50/60Hz
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Sheet steel
Finishing:	Painting by cathodic electrophoresis with epoxy resin and finishing with thermosetting epoxy polyester powders
Colour:	Grey RAL 7035
Self extinguishing degree (GWT):	960°C (switch)
Impact resistance:	IK10
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks)
Max diameter of the padlock arch:	8mm

3P+N versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

- BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 100A÷160A 3P, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top	Blank side
100-125	3P, 3P+N	400x500x200	Bottom	Gland plate
			Top	Blank side
160	3P, 3P+N	500x700x250	Bottom	Gland plate
			Top	Blank side
200-250	3P, 3P+N	600x800x300	Bottom	Gland plate
			Top	Blank side
315-400-500	3P, 3P+N	800x800x300	Bottom	Gland plate
			Top	Blank side
630	3P, 3P+N	1000x1000x300	Bottom	Gland plate
			Top	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 100A÷630A 3P, 3P+N

Switch size			KA1		KA2			KA3			KA4	
Rated current In			100	125	160	200	250	315	400	500	630	
Rated insulation voltage	Ui	(V)	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Rated impulse withstand voltage	Uimp	(kV)	8	8	12	12	12	12	12	12	12	
Thermal current	Ithe	(A)	100	125	160	200	250	315	400	500	800	
Rated operational current Ie	AC21A/B	Resistive loads, including moderate overloads	415V (A)	100	125	160	200	250	315	400	500	630/800
		500V (A)	100	125	160	200	250	315	400	500	630/800	
		690V (A)	100	125	160	200	250	315	400	500	630/800	
	AC22A/B	Mixed resistive and inductive loads, including moderate overloads	415V (A)	100	125	160	200	250	315	400	500	630/800
		500V (A)	100	125	160	200	250	315	400	400	630	
		690V (A)	100	125	160	200	250	315	400	400	630	
	AC23A/B	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V (A)	100	125	160	200	250	315	400	500	630
		500V (A)	80	100	125	160	200	250	315	315	500	
		690V (A)	63	80	100	125	160	200	250	250	400	
	AC23A ¹⁾	Rated operational power	415V (kW)	52	65	85	105	130	165	200	210	330
	Short circuit withstand current 1sec		(kA)	5	5	8	8	8	13	13	13	26.5
	Conditional short circuit current		(kA)	50	50	50	50	50	50	50	50	50
Associate fuse size for conditional short circuit current - type gG		(A)	100	125	160	200	250	315	400	400	630	
Terminal bolt size		mm ²	M6	M6	M8	M8	M8	M10	M10	M10	M12	
Palm width		mm	15	15	21	21	21	25	25	25	30	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

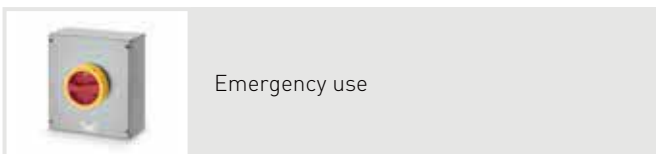
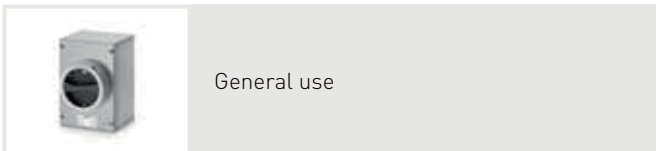
Code	590.PL006011 590.PL006021	590.PL006012 590.PL006022	590.PL006013 590.PL006023
Switch type	KA1-KA2	KA3	KA4
Contact type	NO/NC	NO/NC	NO/NC
Break activation	Break before main contacts	Break before main contacts	Break before main contacts
Rated thermal current	400V	10A	10A
	250V	16A	16A



ENCLOSED SWITCH-DISCONNECTORS IN STAINLESS STEEL ENCLOSURE



VERSIONS



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A ¹⁾ -20A-25A ¹⁾ -32A-40A-63A 80A-100A-125A-160A
Polarity:	1P+SN, 2P, 3P, 3P+SN, 3P+N, 6P, 8P
Rated voltage:	690Vac
Frequency:	50/60Hz
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Stainless steel AISI 304L ²⁾
Surface finishing:	Fine satin medium Scotch-Brite type
Impact resistance:	IK10
Self extinguishing degree (GWT):	960°C (switch)
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	20A÷40A 6mm 63A÷160A 8mm

2P, 3P+N and 8P versions with early make late break neutral pole.
1P+SN and 3P+SN versions with unswitched neutral (solid neutral terminal block).

Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾ Only for 6 and 8 poles.

²⁾ Special versions in stainless steel AISI 316L on request.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 1P+SN, 2P, 3P, 3P+SN, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top/bottom	Blank side
20-32-40	1P+SN, 2P, 3P, 3P+SN, 3P+N	100x160x90	Top/bottom	Blank side
			Rear	Blank side
20-32-40 High wiring capacity	3P, 3P+N	150x160x90	Top/bottom	Blank side
			Rear	Blank side
63-80-100	1P+SN, 2P, 3P, 3P+SN, 3P+N	150x220x120	Top/bottom	Blank side
			Rear	Blank side
125-160	3P, 3P+SN, 3P+N	300x400x150	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 6P, 8P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top/Bottom	Blank side
16-25-32-40 63-80-100	6P, 8P	250x280x120	Top/Bottom	Blank side
			Rear	Blank side
125-160	6P, 8P	300x400x150	Top/Bottom	Blank side
			Rear	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 1P+SN

Switch size				Y01			
Rated current I _n				20A	32A	40A	
Rated insulation voltage		U_i	VAC	250	250	250	
Rated impulse withstand voltage		U_{imp}	kV	4	4	4	
Thermal current		I_{the}	A	20	32	40	
Rated operational current I _e	AC22A	Mixed resistive and inductive loads, including moderate overloads	250V	A	20	32	40
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	250V	A	20	22	25
Short circuit withstand current		I_{cw}	A	480	480	480	
Conditional short circuit current			kA _{eff}	10	10	10	
Associate fuse size for conditional short circuit current - type gG			A	20	32	40	
Flexible wires			mm ²	1.5-6	1.5-6	1.5-6	
Rigid wires			mm ²	1.5-6	1.5-6	1.5-6	



■ TECHNICAL CHARACTERISTICS 20A÷160A 1P+SN 2P, 3P, 3P+N

Switch size			Y1			Y2			Y5		
Rated current In			20A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage	Ui	VAC	690	690	690	800	800	800	800	800	
Rated impulse withstand voltage	Uimp	kV	4	4	4	8	8	8	8	8	
Rated thermal current	Ith/Ithe	A	20	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
		500V	A	20	32	32	63	80	100	125	160
		690V	A	20	32	32	63	80	100	125	160
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
		500V	A	20	32	32	63	80	100	125	160
		690V	A	20	32	32	63	80	100	125	160
	AC23A Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35	63	80	100	125	160
		500V	A	20	25	25	63	63	63	125	125
		690V	A	20	25	25	32	32	32	100	100
	AC23A¹⁾ Rated operational power	415V	Kw	9	15	18.5	35	37	46	55	69
	AC3 Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	25	28.5	-	-	-	-	-
		690V	A	12	18	20	-	-	-	-	-
Short circuit withstand current	Icw (1s)	A	400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current	kAeff		10	10	10	30	30	30	50	50	
Associate fuse size for conditional short circuit current - type gG	A		20	32	40	63	80	100	125	125	
Flexible wires	mm ²		1.5-10	1.5-10	1.5-10	10-50	10-50	10-50	10-70	10-70	
Rigid wires	mm ²		1.5-16	1.5-16	1.5-16	10-50	10-50	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ TECHNICAL CHARACTERISTICS 16A÷160A 6P, 8P

Switch size			Y3				Y4			Y5			
Rated current In			16A	25A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	Ui	VAC	800	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8	8		
Thermal current	Ithe	A	16	25	32	40	63	80	100	125	160		
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	63	160	80	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	40	40	40	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	63	63	125	125
			690V	A	16	25	25	25	32	32	32	100	100
	AC23A ¹⁾	Rated operational power	415V	kW	7,5	11	15	18,5	35	37	46	55	69
Short circuit withstand current	Icw (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000	3000		
Conditional short circuit current		kAeff	50	50	50	50	30	30	30	50	50		
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125		
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code		590.PL004001 590.PL004002	590.PL004005	590.PL005
Switch type		Y1		Y3-Y4-Y5
Contact type		NC NA	NO/NC	NO/NC
Break activation		Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	10A
	250V	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	-
	250V	6A	-	-



ENCLOSED CHANGE-OVER SWITCHES I-0-II IN STAINLESS STEEL ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



General use

TECHNICAL CHARACTERISTICS

Rated current:	16A-25A- 32A-40A-63A-80A 100A-125A -160A
Polarity:	3P, 3P+N
Rated voltage:	690Vac
Frequency:	50/60Hz
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Stainless steel AISI 304L ¹⁾
Finitura esterna:	Fine satin medium Scotch-Brite type
Impact resistance:	IK10
Self extinguishing degree (GWT):	960°C (switch)
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	8mm

3P+N versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾ Special versions in stainless steel AISI 316L on request.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

ENCLOSURE DIMENSIONS AND CABLE ENTRIES 3P, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
16-25-32-40 63-80-100	3P,3P+N	250x280x120	Top/bottom	Blank side
			Rear	Blank side
125-160	3P,3P+N	300x400x150	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

TECHNICAL CHARACTERISTICS 16A÷160A 3P, 3P+N

Switch size			C1				C2			C3			
Rated current In			16A	25A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	Ui	VAC	800	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8	8		
Thermal current	Ithe	A	16	25	32	40	63	80	100	125	160		
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	63	160	80	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	40	40	40	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	63	63	125	125
			690V	A	16	25	25	25	32	32	32	100	100
	AC23A¹⁾	Rated operational power	415V	kW	7,5	11	15	18,5	35	37	46	55	69
	Short circuit withstand current	Icw	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
	Conditional short circuit current		kAeff	50	50	50	50	50	50	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125		
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

AUXILIARY CONTACTS

Code	590.PL005	
Switch type	C1-C2-C3	
Contact type	NO/NC	
Break activation	Break before main contacts	
Rated thermal current	400V	10A
	250V	16A



ENCLOSED SWITCH-DISCONNECTORS IN DIRECT CURRENT FOR PHOTOVOLTAIC APPLICATION



VERSIONS



General use

REFERENCE STANDARDS

IEC EN 60947-3

IEC 60364-7-712

EN 60529

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	15A-16A-20A-25A-30A-40A
Polarity:	4P, 5P, 6P, 8P
Rated voltage:	16A 450Vdc 15A-20A-30A-40A 800Vdc
Insulating voltage:	16A 690V 15A-20A-30A-40A 1500V
Protection degree:	16A IP66/IP69 15A-20A-30A-40A IP65
Installation temperature:	-25°C +60°C
Material:	Thermoplastic
Colour:	Grigi RAL 7035
Insulation class:	Class II (double insulation) □
Self extinguishing degree (GWT):	650°C (body) 960°C (switch)
Impact resistance:	16A IK09 15A-20A-30A-40A IK08
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Padlock arch diameter to be used:	16A 6mm 15A-20A-30A-40A 8mm

Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES

Rated current (A)	Tensione nominale (V)	Nr of poles in series	Enclosure dimensions (mm)	Cable entries		
				Top/bottom	Rear	Blank side
16	450	4P	110x150x86	Top/bottom	2xM25	Knock-outs/Blank side ¹⁾
				Rear	2xM25	Sfondabile/Blank side ¹⁾
15-20	800	4P, 5P	105x150x100	Top/bottom	-	Blank side ²⁾
				Rear	-	Blank side
25-30	800	6P, 8P	160x220x114	Top/bottom	2xM32	Knock-outs/Blank side ¹⁾
				Rear	1xM32	Sfondabile/Blank side ¹⁾
40	800	8P	228x308x128	Top/bottom	-	Blank side

Special drillings on request.

¹⁾ Reversible base, blank sides with drilling point marks.

²⁾ Blank sides with drilling point marks.

■ TECHNICAL CHARACTERISTICS 15A÷40A

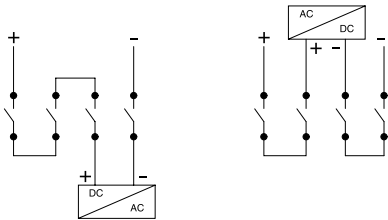
Switch size			D1	D3				D5		
Rated current I _n			16A	15A	20A	25A	30A	40A		
Rated insulation voltage	U_i	VAC	690	1500	1500	1500	1500	1500		
Rated impulse withstand voltage	U_{imp}	kV	4	8	8	8	8	8		
Thermal current	I_{th}/I_{the}	A	30	63	63	63	63	125		
Nr of poles in series			4	4	5	6	8	8		
Rated operational current I _e	AC21A/B	Resistive loads, including moderate overloads	300V DC	A	32	-	-	-	-	
			400V DC	A	-	30	35	40	60	80
			450V DC	A	16	-	-	-	-	-
			500V DC	A	-	30	35	40	45	65
			600V DC	A	-	20	25	40	40	60
			750V DC	A	-	15	20	25	30	40
			800V DC	A	-	15	20	25	30	40
Short circuit withstand current	I_{cw} (1s)	A	400	1100	1100	1100	1100	3000		
Flexible wires		mm ²	1.5-10	16	16	16	16	70		
Rigid wires		mm ²	1.5-10	16	16	35	16	70		



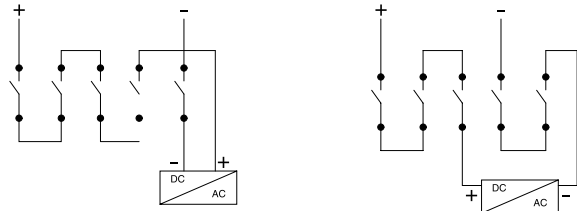
■ SWITCH LINKING

In order to make easier the work of the installer, it is possible to choose the manner of wiring of the poles in series. In this way the incoming and the outgoing can be varied both on the top side and on the bottom side. In the packaging jumpers are supplied to cover the chosen configuration.

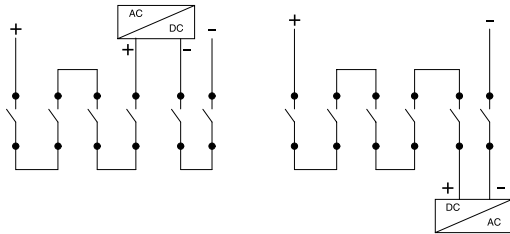
**590.DCGE0815 - 590.DCGE0416 -
(4 POLES IN SERIES) - 3 JUMPERS SUPPLIED**



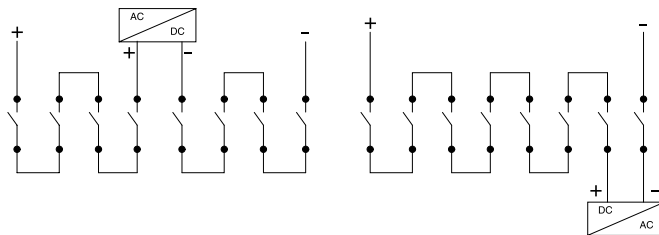
**590.DCGE0820 - (5 POLES IN SERIES) -
4 JUMPERS SUPPLIED**



590.DCGE0825 - (6 POLES IN SERIES) - 5 JUMPERS SUPPLIED



590.DCGE0830 - 590.DCGE0840 - (8 POLES IN SERIES) - 8 JUMPERS SUPPLIED



■ AUXILIARY CONTACTS

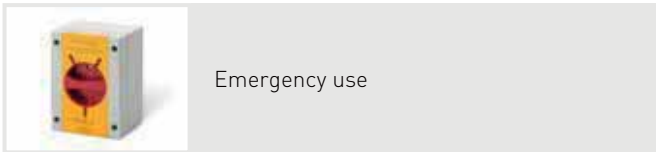
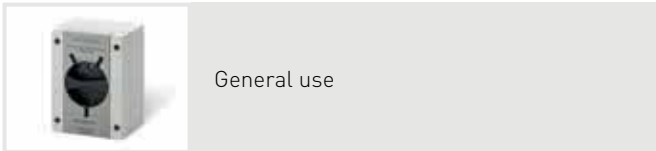
Code		590.PL004001 590.PL004002	590.PL004005	590.PL005
Switch type		D1		D3-D5
Contact type		NC NA	NO/NC	NO/NC
Break activation		Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	10A
	250V	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	-
	250V	6A	-	-



ENCLOSED SWITCH-DISCONNECTORS IN THERMOPLASTIC ENCLOSURE



VERSIONS



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A ¹⁾ -20A-25A ¹⁾ -32A-40A-63A 80A-100A-125A-160A
Polarity:	1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P, 6P, 8P
Rated voltage:	690Vac - 600Vdc
Insulating voltage:	690Vac - 600Vdc
Frequency:	50/60Hz-c.c.
Protection degree:	16A÷100A IP66/IP69 125A÷160A IP55 Flush mounting version 20A-40A IP55
Installation temperature:	-25°C +60°C
Material:	Thermoplastic
Colour:	Grey RAL 7035
Insulation class:	Class II (double insulation) □
Self extinguishing degree (GWT):	650°C (body) 960°C (switch)
Impact resistance:	20A÷100A IK09 125A÷160A IK08 Flush mounting version 20A-40A IK08
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock) ²⁾
Max diameter of the padlock arch:	20A÷40A 6mm 63A÷160A 8mm

2P, 3P+N and 8P versions with early make late break neutral pole.
1P+SN and 3P+SN versions with unswitched neutral (solid neutral terminal block).

Terminal/threaded bar earth conductor connection.

Equipped with door locking with the switch in ON position.

¹⁾ Only for 6 and 8 poles.

²⁾ Only general use versions.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES

Enclosure in thermoplastic insulation material 1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
20-32-40	1P+SN	82x120x69	Top/bottom	1xM20+1xM25	Knock-outs
			Rear	2xM20	Knock-outs
20-32-40	1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P	110x150x86	Top/bottom	2xM25	Knock-outs/Blank side ¹⁾
			Rear	2xM25	Knock-outs/Blank side
63-80-100	1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P	160x220x114	Top/bottom	2xM32	Knock-outs/Blank side ¹⁾
			Rear	2xM32	Knock-outs/Blank side ¹⁾
125	3P, 3P+SN, 3P+N	228x308x128	Top	-	Blank side
			Bottom	-	Blank side
			Rear	-	Blank side
160	3P, 3P+SN, 3P+N	308x338x128	Top	-	Blank side
			Bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

¹⁾ Reversible base, blank sides with drilling point marks.

■ CABLE ENTRIES

Enclosure in thermoplastic insulation material 6P, 8P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
16-25-32-40	6P-8P	160x220x114	Top/bottom	2xM32	Knock-outs o Blank side ¹⁾
			Rear	2xM32	Knock-outs o Blank side ¹⁾
63-80-100	6P-8P	228x308x128	Top	-	Blank side
			Bottom	-	Blank side
			Rear	-	Blank side
125-160	6P-8P	308x338x128	Top	-	Blank side
			Bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

¹⁾ Reversible base, blank sides with drilling point marks.



■ TECHNICAL CHARACTERISTICS 20A-32A 1P+SN

Switch size				Y01			
Rated current		In		20A	32A	40A	
Rated insulation voltage		Ui	VAC	250	250	250	
Rated impulse withstand voltage		Uimp	kV	4	4	4	
Rated thermal current		Ith/Ithe	A	20	32	40	
Rated operational current Ie	AC22A	Mixed resistive and inductive loads, including moderate overloads	250V	A	20	32	40
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	250V	A	20	22	25
Short circuit withstand current		Icw (1s)	A	480	480	480	
Conditional short circuit current			kAeff	10	10	10	
Associate fuse size for conditional short circuit current - type gG			A	20	32	40	
Flexible wires			mm ²	1.5 - 6	1.5 - 6	1.5 - 6	
Rigid wires			mm ²	1.5 - 6	1.5 - 6	1.5 - 6	

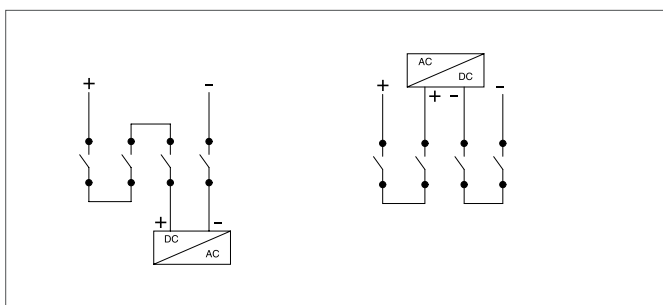
■ TECHNICAL CHARACTERISTICS 20A÷160A 1P+SN 2P, 3P, 3P+SN, 3P+N, 4P

Switch size				Y1			Y2		Y4	Y5		
Rated current		In		20A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage		Ui	VAC	690	690	690	690	690	800	800	800	
Rated impulse withstand voltage		Uimp	kV	4	4	4	4	4	8	8	8	
Thermal current			A	20	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
			500V	A	20	32	32	63	80	100	125	160
			690V	A	20	32	32	63	80	100	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
			500V	A	20	32	32	63	80	100	125	160
			690V	A	20	32	32	63	80	100	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35	63	67	100	125	160
			500V	A	20	25	25	40	67	-	125	125
			690V	A	20	25	25	30	38	-	100	100
	AC23A ¹⁾	Rated operational power	415V	Kw	9	15	18.5	33	37	46	55	69
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	25	28.5	40	55	-	-	-
			690V	A	12	18	20	25	32	-	-	-
DC22A ²⁾	Mixed resistive and inductive loads, including moderate overloads	250V	A	25	32	32	63	-	-	-	-	
		600V	A	10	10	10	-	-	-	-	-	
Short circuit withstand current		Icw (1s)	A	400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current			kAeff	10	10	10	10	10	30	50	50	
Associate fuse size for conditional short circuit current - type gG			A	20	32	40	63	80	100	125	125	
Flexible wires			mm ²	1.5-10	1.5-10	1.5-10	10-35	10-35	10-50	10-70	10-70	
Rigid wires			mm ²	1.5-16	1.5-16	1.5-16	10-35	10-35	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

²⁾ 4P versions with poles in series.

■ 4P VERSIONS POLES CONNECTION IN SERIES FOR USE IN DC



■ TECHNICAL CHARACTERISTICS 16A÷160A 6P, 8P

Switch size		Y3					Y4			Y5			
Rated current	I_n	16A	25A	32A	40A	63A	80A	100A	125A	160A			
Rated insulation voltage	U_i	VAC	800	800	800	800	800	800	800	800			
Rated impulse withstand voltage	U_{imp}	kV	8	8	8	8	8	8	8	8			
Rated thermal current	I_{th}/I_{the}	A	16	25	32	40	63	80	100	125	160		
Rated operational current I_e	AC21A	Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	63	160	80	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	40	40	40	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	63	63	125	125
			690V	A	16	25	25	25	32	32	32	100	100
	AC23A ¹⁾	Rated operational power	415V	kW	7,5	11	15	18,5	35	37	46	55	69
Short circuit withstand current	$I_{cw} (1s)$	A	1100	1100	1100	1100	1500	1500	1500	3000	3000		
Conditional short circuit current		kA _{eff}	50	50	50	50	50	50	30	50	50		
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125		
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code		590.PL004001 590.PL004002	590.PL004005	590.PL004003 590.PL004004	590.PL004006	590.PL005
Switch type		Y1		Y2		Y3-Y4-Y5
Contact type		NC NA	NO/NC	NC NA	NO/NC	NO/NC
Break activation		Simultaneous	Break before main contacts	Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	16A	10A	10A
	250V	16A	16A	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	4.5A	-	-
	250V	6A	-	6A	-	-

ENCLOSED SWITCH-DISCONNECTORS IN THERMOPLASTIC ENCLOSURE WITH HINGED DOOR



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



General use



Emergency use

TECHNICAL CHARACTERISTICS

Rated current:	160A-200A-250A
Polarity:	3P, 3P+SN, 3P+N
Rated voltage:	690Vac
Frequency:	50/60Hz
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Thermoplastic
Colour:	Grey RAL 7035
Insulation class:	Class II (double insulation) □
Self extinguishing degree (GWT):	650°C (body) 960°C (switch)
Impact resistance:	IK10
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks)
Max diameter of the padlock arch:	8mm

3P+N versions with early make late break neutral pole.

3P+SN versions with unswitched neutral (solid neutral terminal block).

Earth conductor connection threaded bar.

Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

Thermoplastic enclosures 3P, 3P+SN, 3P+N with hinged door and top/bottom cable entries.

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
160-200-250	3P, 3P+SN, 3P+N	464x519x245	Top/bottom	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 160A÷250A 3P, 3P+SN, 3P+N

Switch size				K2			
Rated current I _n				160	200	250	
Rated insulation voltage	U_i	(V)		1000	1000	1000	
Rated impulse withstand voltage	U_{imp}	kV)		12	12	12	
Thermal current	I_{the}	(A)		160	200	250	
Rated operational current I _e	AC21A/B	Resistive loads, including moderate overloads	415V (A)	160	200	250	
			500V (A)	160	200	250	
			690V (A)	160	200	250	
	AC22A/B	Mixed resistive and inductive loads, including moderate overloads	415V (A)	160	200	250	
			500V (A)	160	200	250	
			690V (A)	160	200	250	
	AC23A/B	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V (A)	160	200	250	
			500V (A)	125	160	200	
			690V (A)	100	125	160	
	AC23A ¹⁾	Rated operational power	415V kW	85	105	130	
	Short circuit withstand current 1sec			(kA)	8	8	8
	Conditional short circuit current			(kA)	50	50	50
Associate fuse size for conditional short circuit current - type gG			(A)	160	200	250	
Terminal bolt size			mm ²	M8	M8	M8	
Palm width			mm	21	21	21	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

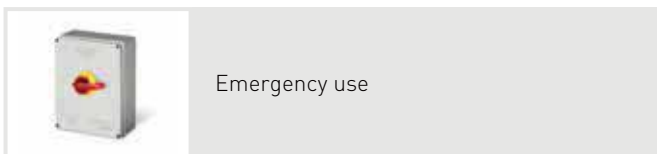
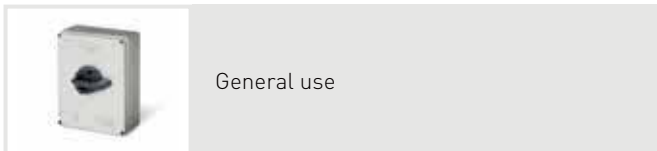
Code	590.PL006011 590.PL006021	
Switch type	K2	
Contact type	NO/NC	
Break activation	Break before main contacts	
Rated thermal current	400V	10A
	250V	16A



ENCLOSED FUSE SWITCH-DISCONNECTORS IN THERMOPLASTIC ENCLOSURE



VERSIONS



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A-80A 100A-125A-160A
Polarity:	2P, 3P, 3P+N-4P ¹⁾
Rated voltage:	690Vac - 600Vdc
Insulating voltage:	690Vac - 600Vdc
Frequency:	50/60Hz
Installation temperature:	-25°C +60°C
Material:	Thermoplastic
Colour:	Grey RAL 7035
Insulation class:	Class II (double insulation) □
Self extinguishing degree (GWT):	650°C (body) 960°C (switch)
Impact resistance:	IK08
Protection degree:	16A-32A IP65 63A÷160A IP55
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	20A÷40A 6mm 63A÷160A 8mm

2P e 3P+N versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾Only 16A and 32A rated currents.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE ENTRIES 2P, 3P, 3P+N, 4P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top/bottom	Blank side
16-32	2P, 3P,3P+N, 4P	240x190x125	Top/bottom	Blank side
			Rear	Blank side
63-80	3P, 3P+N	380x300x170	Top/bottom	Blank side
			Rear	Blank side
100-125-160	3P, 3P+N	450x370x180	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

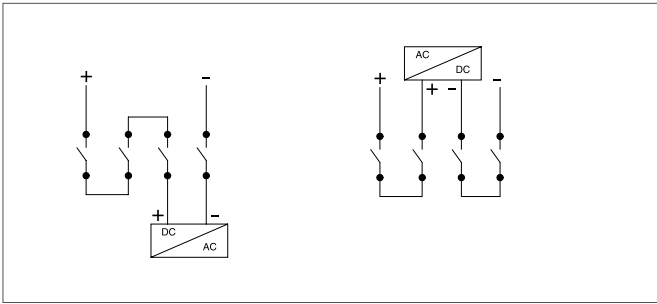
■ TECHNICAL CHARACTERISTICS 16A÷160A 2P, 3P, 3P+N, 4P

Switch size			F1		KF1		KF2				
Rated current In			16A	32A	63A	80A	100A	125A	160A		
Rated insulation voltage	Ui	VAC	690	690	1000	1000	1000	1000	1000		
		VDC	400	400	1500	1500	1500	1500	1500		
Rated impulse withstand voltage	Uimp	kV	4	4	8	8	12	12	12		
Rated thermal current	Ith/Ithe	A	16	32	63	80	100	125	160		
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	16	32	63	80	100	125	160
			500V	A	16	32	63	80	100	125	160
			690V	A	16	32	63	80	100	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	32	63	80	100	125	160
			500V	A	16	32	63	80	100	125	160
			690V	A	16	32	63	80	100	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	32	63	80	100	125	160
			500V	A	16	32	45	63	80	100	125
			690V	A	16	25	32	45	63	80	100
	DC21A	Resistive loads, including moderate overloads	220V	A	25	32	63	80	100	125	160
			400V	A	-	-	-	-	100	125	160
			600V	A	-	-	-	-	-	-	-
	DC22A ¹⁾	Mixed resistive and inductive loads, including moderate overloads	220V	A	20	32	63	80	100	125	160
			400V	A	-	-	-	-	100	125	160
600V			A	-	-	-	-	-	-	-	
DC23A ¹⁾	Switching of motor loads or other highly inductive loads	220V	A	-	-	50	50	100	125	160	
		400V	A	-	-	-	-	100	125	160	
Conditional short circuit current		kAeff	10	10	100	100	50	50	50		
Associate fuse size for conditional short circuit current		A	16	32	63	80	100	125	160		
Fuse type			gG	gG	DIN/BS	DIN/BS	DIN/BS	DIN/BS	DIN/BS		
Flexible wires		mm ²	1,5-10	1,5-10	-	-	-	-	-		
Rigid wires		mm ²	1,5-16	1,5-16	-	-	-	-	-		
Terminal bolt size		mm			M6	M6	M8	M8	M8		
Palm width		mm			15	15	21	21	21		

¹⁾ 4P versions with poles in series (16A-32A).



■ 4P VERSIONS POLES CONNECTION IN SERIES FOR USE IN DC



■ FUSES TYPE

Rated current (A)	16A	32A	63A	80A	100A	125A	160A
DIN type fuses	-	-	NH C00	NH C00	NH 00	NH 00	NH 00
BS type fuses	-	-	A2-A3	OSD	A4	DEO	DEO
Cylindrical fuses (gG)	10X38	10X38	-	-	-	-	-

■ AUXILIARY CONTACTS

Code	590.PL004001 590.PL004002	590.PL004005	590.PL0060011 590.PL0060021
Switch type	YF1	YF1	KF2
Contact type	NA NC	NO/NC	NO/NC
Break activation	Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A
	250V	16A	16A
Rated operational current AC15	400V	4.5A	-
	250V	6A	-

ENCLOSED CHANGE-OVER SWITCHES I-0-II IN THERMOPLASTIC ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

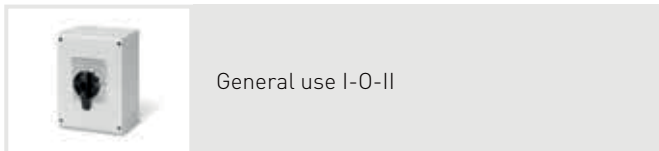
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A-25A-32A-40A-63A-80A 100A-125A-160A
Polarity:	3P, 3P+N
Rated voltage:	690Vac - 600Vdc
Insulating voltage:	690Vac - 600Vdc
Frequency:	50/60Hz
Protection degree:	16A÷40A IP66/IP69 63A÷160A IP55
Installation temperature:	-25°C +60°C
Material:	Thermoplastic
Colour:	Grey RAL 7035
Insulation class:	Class II (double insulation) □
Self extinguishing degree (GWT):	650°C (body) 960°C (switch)
Impact resistance:	20A÷40A IK09 63A÷160A IK08
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks)
Max diameter of the padlock arch:	20A÷40A 8mm

3P+N versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



■ CABLE ENTRIES 16A÷160A 3P, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
			Top/bottom		Blank side ¹⁾
16-25-32-40	3P, 3P+N	155x210x107	Top/bottom	-	Blank side ¹⁾
			Rear	2xM32	Knock-outs
63-80-100	3P, 3P+N	228x308x128	Top/bottom	-	Blank side
			Rear	-	Blank side
125-160	3P, 3P+N	308x338x128	Top/bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

¹⁾ Blank side with drilling point marks.

■ TECHNICAL CHARACTERISTICS 16A÷160A 3P, 3P+N

Switch size			C1				C2			C3			
Rated current	I_n		16A	25A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	U_i	VAC	800	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	U_{imp}	kV	8	8	8	8	8	8	8	8	8		
Rated thermal current	I_{the}	A	16	25	32	40	63	80	100	125	160		
Rated operational current I_e	AC21A	Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	63	160	80	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	40	40	40	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	63	63	125	125
			690V	A	16	25	25	25	32	32	32	100	100
	AC23A	Rated operational power ¹⁾	415V	kW	7,5	11	15	18,5	35	37	46	55	69
	Short circuit withstand current	I_{cw}	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
	Conditional short circuit current		kA _{eff}	50	50	50	50	50	50	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125		
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code	590.PL005	
Switch type	C1-C2-C3	
Contact type	In scambio	
Break activation	Break before main contacts	
Rated thermal current	400V	10A
	250V	16A

■ COMMAND AND CONTROL DEVICES








■ REFERENCE STANDARDS

IEC EN 60947-5-1

■ MARKINGS AND DIRECTIVES



■ VERSIONS

	Control stations
	Push buttons
	Selectors
	Enbloc pilot lamp
	Contact blocks

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP65
Installation temperature:	-25°C +70°C
Material:	Thermoplastic
Self extinguishing degree (GWT):	960°C (switches) 850°C (front operators)
NO-NC contacts:	3 contacts max.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



SWITCHGEARS



■ SURFACE MOUNTING JUNCTION BOXES IN DIE-CAST ALUMINIUM



■ REFERENCE STANDARDS

EN 60670-1

EN 60670-22

■ MARKINGS AND DIRECTIVES



■ VERSIONS



Junction boxes

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP66/67/69 IP66 (size 7)
Installation temperature:	-40°C +90°C
Material:	Aluminium alloy
Impact resistance (IK degree):	IK08
Cable entries:	Blank side
DIN rail fixing:	Yes
Colour:	Grey RAL 7040 with metallic pigments

Heavy duty appliance for internal industrial applications.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Limited resistance	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ SURFACE MOUNTING ENCLOSURE FOR DEVICES FIXING



■ REFERENCE STANDARDS

EN 60670-1

EN 60670-22

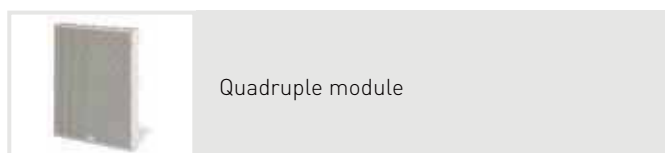
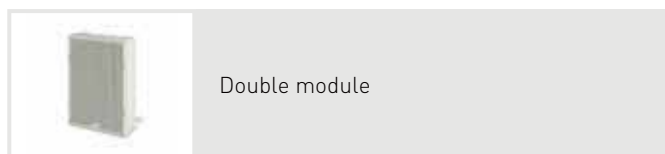
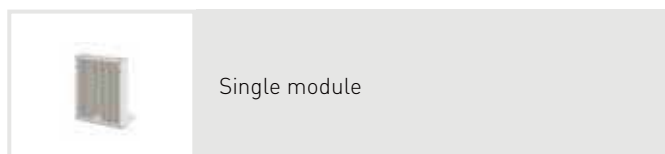
■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



■ TECHNICAL CHARACTERISTICS

Protection degree:	IP41
Installation temperature:	-15°C +60°C
Self extinguishing degree [GWT]:	650°C
Material:	Thermoplastic (Halogen Free)
Impact resistance (IK degree):	IK08
Insulation class:	Class II (double insulation) □
Colour:	Grey RAL 7035

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant




Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



■ EMPTY ENCLOSURES FOR COMPACT DISTRIBUTION ASSEMBLIES



■ VERSIONS

	BLOCK1 (4 DIN)
	BLOCK3 (6 DIN)
	BLOCK4 (11 DIN)
	BLOCK5 (14 DIN)

■ REFERENCE STANDARDS

EN 62208
EN 60670-1
EN 60670-24
EN 61439-3
EN 61439-4

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Protection degree:	IP66
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C
Material:	Thermoplastic
Impact resistance (IK degree):	IK08
Cable inlets:	Blank side
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Dissipable power according to CEI 23-49 Standard:	8W (BLOCK1) 9W (BLOCK3) 14W (BLOCK4) 15W (BLOCK5)
Colour:	Grey RAL 7035

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Not resistant	Not resistant	Not resistant	Limited resistance	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ SURFACE MOUNTING JUNCTION BOXES GW 960°C



■ REFERENCE STANDARDS

EN 60670-1

EN 60670-22

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



With cable sleeves:
 - Clip-in cover
 - Screw-down cover with 1/4 turn screws



With blank sides:
 - Screw-down cover with 1/4 turn screws

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP55
Installation temperature:	-25°C +60°C
Self extinguishing degree [GWT]:	960°C
Material:	Thermoplastic
Impact resistance (IK degree):	IK07
Insulation class:	Class II (double insulation) <input type="checkbox"/>
DIN rail fixing:	Yes
Colour:	Grey RAL 7035 Red RAL 3001

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Resistant	Resistant	Not resistant	Not resistant	Not resistant	Limited resistance	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



■ SURFACE OR FLUSH MOUNTING CONSUMER UNITS



■ REFERENCE STANDARDS

CEI 23-49
EN 60670-1
EN 60670-24


■ MARKINGS AND DIRECTIVES




■ QUALITY MARKS




■ VERSIONS



Surface mounting
With window (8-24 DIN)



Surface mounting
Without window (2-54 DIN)



Surface mounting
With window (4-54 DIN)

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP40
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C
Material:	Thermoplastic (Halogen Free)
Impact resistance (IK degree):	IK06
Cable entries:	Blank side
Dissipable power according to CEI 23-49 Standard:	9÷140W
Colour:	Grey RAL 7035 White RAL 9003
Terminal blocks fixing possibility:	Yes
Insulation class:	Class II (double insulation) <input type="checkbox"/>

■ CAPACITÀ DI CONNESSIONE

Nominal size mm ²	Rated current (A)	Type of conductor	DOMINO terminal blocks Conductors section (mm ²)										
			0,75	1	1,5	2,5	4	6	10	16	25	35	50
10	57	rigid	-	-	1÷4	1÷3	1÷2	1	1	-	-	-	-
		flexible	-	-	1÷4	1÷3	1÷2	1	-	-	-	-	-
16	76	rigid	-	-	-	1÷4	1÷3	1÷2	1	1	-	-	-
		flexible	-	-	-	1÷4	1÷3	1÷2	1	-	-	-	-



■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

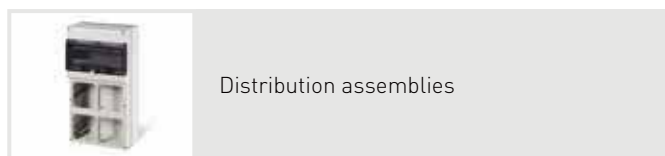
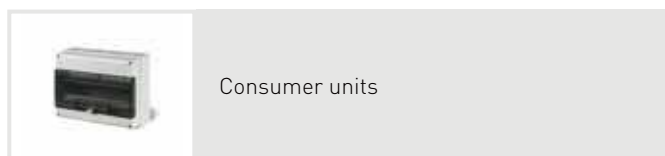
Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Not resistant	Not resistant	Resistant	Not resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ SURFACE MOUNTING WATERTIGHT CONSUMER UNITS



■ VERSIONS



■ REFERENCE STANDARDS

CEI 23-49
EN 62208
EN 60670-1
EN 60670-24
EN 61439-3
EN 61439-4

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Protection degree:	IP66
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C
Material:	Thermoplastic
Impact resistance (IK degree):	IK07
Cable entries:	Blank side
Dissipable power according to CEI 23-49 Standard:	6÷60W
Colour:	Grey RAL 7035
Terminal blocks fixing possibility:	Yes
Insulation class:	Class II (double insulation) <input type="checkbox"/>

■ CONNECTION CAPACITY

Nominal size mm ²	Rated current [A]	Type of conductor	DOMINO terminal blocks Conductors section (mm ²)										
			0,75	1	1,5	2,5	4	6	10	16	25	35	50
10	57	rigid	-	-	1÷4	1÷3	1÷2	1	1	-			
		flexible	-	-	1÷4	1÷3	1÷2	1	-	-			
16	76	rigid	-	-	-	1÷4	1÷3	1÷2	1	1			
		flexible	-	-	-	1÷4	1÷3	1÷2	1	-			



■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Not resistant	Not resistant	Resistant	Not resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



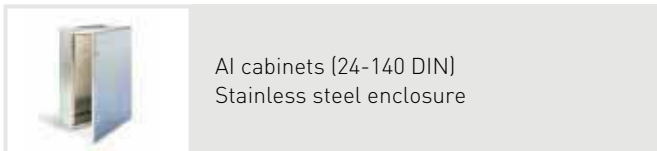
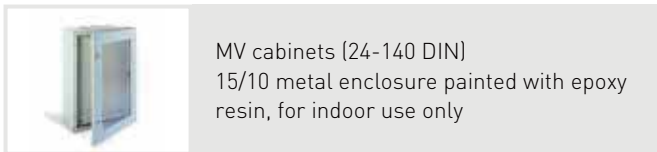
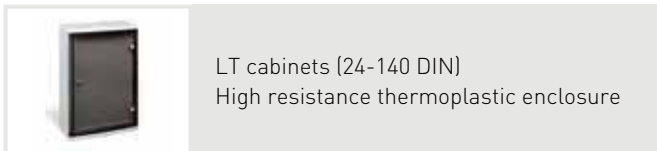
EMPTY ENCLOSURES



■ SURFACE MOUNTING WATERPROOF MODULAR CABINETS FOR DISTRIBUTION



■ VERSIONS



■ TYPES

	Dimensions (mm)	DIN modules	DIN modules per row
Type 1	320x370x210	24 DIN	12 DIN
Type 2	460x370x245	40 DIN	20 DIN
Type 3	460x520x245	60 DIN	20 DIN
Type 4	460x670x245	80 DIN	20 DIN
Type 5	775x715x345	140 DIN	35 DIN

There are 5 cabinets available in the EASYBOX Series, each with three different variations (LT, MV and AI).

■ REFERENCE STANDARDS

CEI 23-49
EN 60670-1
EN 60670-24
EN 62208

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Protection degree:	IP65
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C
Material:	High resistance thermoplastic (Halogen Free) / Metal / Stainless steel
Impact resistance (IK degree):	IK08 (Door with window) IK10 (Blank door)
Cable entries:	Blank side (thermoplastic versions) Plate (metal versions)
Insulation class:	Class II (double insulation) <input checked="" type="checkbox"/>
Colour:	Grey RAL 7035

■ DISSIPABLE POWER

Enclosures	DIN modules	Set-up with frame and DIN rail or base plate and internal door (W)			Set-up with base plate in L3 position (W)		
		LT	MV	AI	LT	MV	AI
Type 1	24 DIN	35	45	30	40	65	40
Type 2	40 DIN	50	60	42	84	105	62
Type 3	60 DIN	58	73	47	100	125	78
Type 4	80 DIN	85	98	63	125	150	94
Type 5	140 DIN	138	155	-	235	280	-

Dissipable power according to CEI 23-49 Standard.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - THERMOPLASTIC ALLOY


Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Not resistant	Not resistant	Resistant	Not resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.


EMERGENCY CONSUMER UNITS




VERSIONS



Flush mounting with emergency illuminated push button



Surface mounting with emergency illuminated push button



Surface mounting with DIN rail or mounting plate

REFERENCE STANDARDS

EN 60947-5-1

EN 60670-1

EN 60670-24

MARKINGS AND DIRECTIVES



TECHNICAL CHARACTERISTICS

Protection degree:	IP55 (push button version) IP65 (DIN rail version)
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C
Material:	Thermoplastic (Halogen Free)
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Colour:	Red RAL 3000

TECHNICAL CHARACTERISTICS FOR EMERGENCY PUSH BUTTON DEVICES

Rated operational voltage Ue:	250V
Utilization category:	AC12
Rated operational current Ie:	2A
Rated insulation voltage Ui:	250V

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Not resistant	Not resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



■ EMPTY ENCLOSURES FOR DISTRIBUTION ASSEMBLIES WITH FRONT AND SIDE SOCKETS



■ REFERENCE STANDARDS

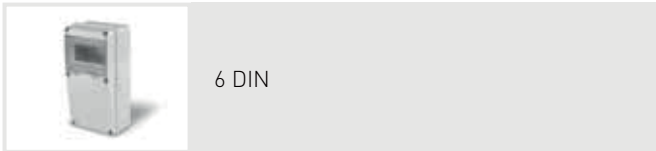
EN 60670-1

EN 60670-24

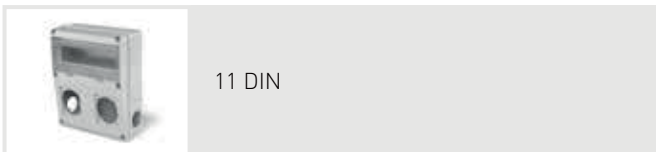
■ MARKINGS AND DIRECTIVES



■ VERSIONS



6 DIN



11 DIN



Side cut-outs on right and left sides for DOMO Series (50x60mm flange)

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP55
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C
Material:	Thermoplastic (Halogen Free)
Impact resistance (IK degree):	IK08
Cable entries:	PG16-PG21-PG29
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Dissipable power according to CEI 23-49 Standard:	Size 6 DIN 9W Size 11 DIN 15W
Colour:	Grey RAL7035

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Not resistant	Not resistant	Resistant	Not resistant	Limited resistance

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

FLUSH MOUNTING CONSUMER UNITS WITH FLAT DOOR



REFERENCE STANDARDS

CEI 23-49
EN 60670-1
EN 60670-24

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



Flush mounting for brick walls or plasterboard (12-60 DIN)

TECHNICAL CHARACTERISTICS

Rated voltage:	400V~
Protection degree:	IP40
Installation temperature:	-15°C +60°C
Self extinguishing degree (GWT):	650°C (body) 850°C (enclosure for plasterboard) 960°C (terminal blocks)
Material:	Thermoplastic Halogen Free (enclosure and terminal boards) Painted steel (door)
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Power dissipation:	25W÷75W
Colour:	White
Terminal blocks:	Yes

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Limited resistance	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



SHOCKPROOF DISTRIBUTION ASSEMBLIES



VERSIONS



Empty rubber enclosures for distribution assemblies



Distribution assemblies with rubber enclosure



Distribution assemblies with LLDPE enclosure

REFERENCE STANDARDS

EN 60670-1

EN 61439-3

EN 61439-4

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Protection degree:	IP44
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	960°C
Impact resistance (IK degree):	IK09 (Distribution assemblies) IK10 (Empty enclosure)
Terminal blocks fixing possibility:	Yes
Material:	Rubber / LLDPE
Colour:	Black

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - EMPTY RUBBER ENCLOSURES

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - DISTRIBUTION ASSEMBLIES WITH LLDPE ENCLOSURE

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Limited resistance	Limited resistance	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ THERMOPLASTIC PEDESTALS FOR ENERGY DISTRIBUTION IN PUBLIC AREAS



■ VERSIONS



Distribution pedestals terminals in thermoplastic materials (SMART-K - SMART-C - SMART-X)



Fire-proof pedestals terminals in thermoplastic materials (SMART-K - SMART-C)

■ REFERENCE STANDARDS

CEI 64-8/7 sez. 708/711
IEC 60364-7-709
IEC 60364-7-711
IEC 60364-7-740
Electrical installations.

IEC EN 61439-1
IEC EN 61439-7
Assembled equipment.

■ MARKINGS AND DIRECTIVES

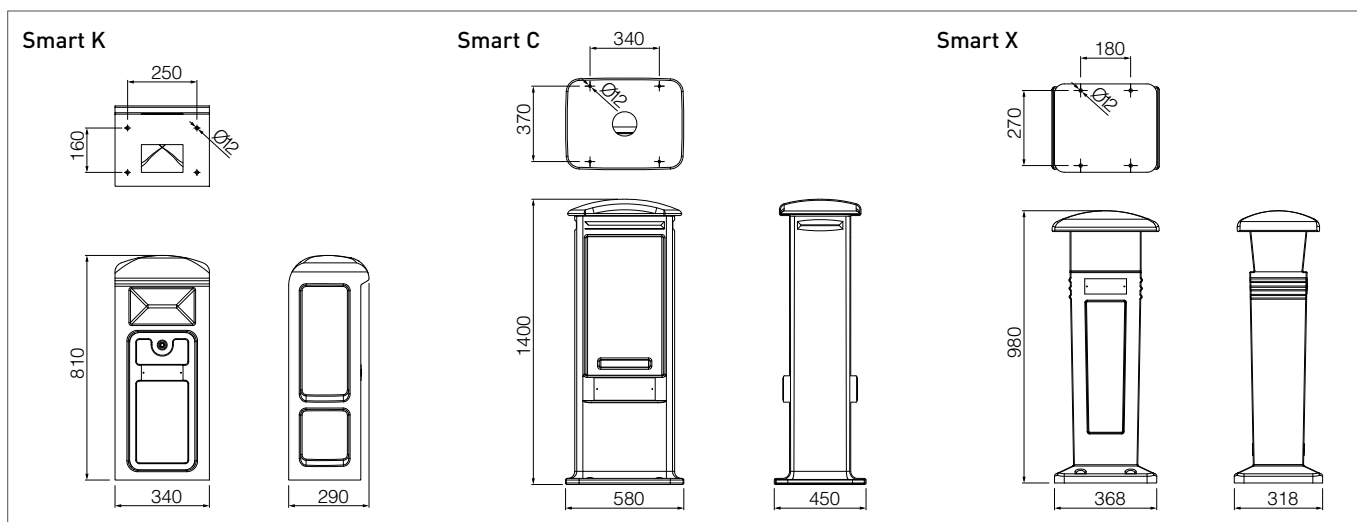


■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Protection degree:	IP56
Installation temperature:	-25°C +60°C
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Material:	Thermoplastic
Impact resistance (IK degree):	IK10
Plastic colour:	Blue (standard) Green - Yellow - Red - White (optional) (No RAL reference)
Power supply terminal board:	Upon request
Water service:	Upon request
Circuit breakers:	6A supplied (other sizes upon request)



■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Not resistant	Not resistant	Resistant	Not resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

POLE MOUNTING DISTRIBUTION PEDESTALS TERMINAL



REFERENCE STANDARDS

CEI 64-8/7 sez. 708/711
IEC 60364-7-709
IEC 60364-7-711
IEC 60364-7-740
Electrical installations.

IEC EN 61439-1
IEC EN 61439-3
IEC EN 61439-7
Assembled equipment.

MARKINGS AND DIRECTIVES



VERSIONS

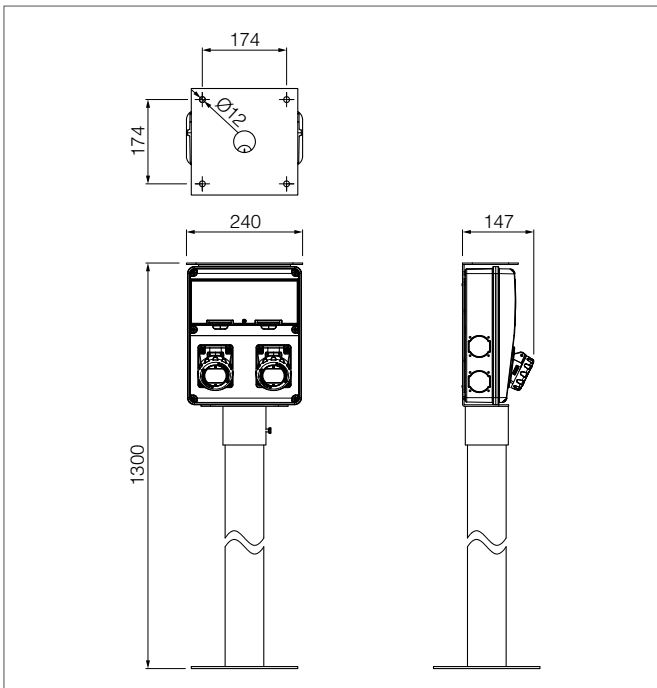


Pole mounting distribution pedestals terminal:

- Single sided
- Double sided

TECHNICAL CHARACTERISTICS

Protection degree:	IP55/IP66
Installation temperature:	-25°C +60°C
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Material:	Painted galvanized steel (pole and roof) Thermoplastic (body)
Impact resistance (IK degree):	IK08
Power supply terminal block:	On request
Circuit breakers:	6A supplied (other sizes on request)



BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Resistant	Not resistant	Not resistant	Resistant	Not resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ METAL PEDESTALS FOR ENERGY DISTRIBUTION IN PUBLIC AREAS



■ REFERENCE STANDARDS

CEI 64-8/7 sez. 708/711
IEC 60364-7-709
IEC 60364-7-711
IEC 60364-7-740
Electrical installations.

IEC EN 61439-1
IEC EN 61439-3
IEC EN 61439-7
Assembled equipment.

■ MARKINGS AND DIRECTIVES



■ VERSIONS



enclosure in painted galvanized sheet steel / stainless steel



enclosure in painted sheet steel

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP66
Installation temperature:	-25°C +60°C
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Material:	Painted galvanized sheet steel / stainless steel
Impact resistance (IK degree):	IK10
Power supply terminal block:	On request
Circuit breakers:	6A supplied (other sizes on request)

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Resistant	Resistant	Not resistant	Not resistant	Not resistant	Limited resistance	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



■ EMPTY ENCLOSURES FOR DISTRIBUTION ASSEMBLIES FOR CONSTRUCTION SITE



■ REFERENCE STANDARDS

EN 62208

EN 61439-3

EN 61439-4

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



MBOX2 (16 DIN)



MBOX3 (39 DIN)



MBOX5 (52 DIN)

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP66 IP65 (versions with emergency push button)
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C
Impact resistance (IK degree):	IK08 (Distribution assemblies) IK09 (Empty enclosures for distribution assemblies)
Material:	Thermoplastic
Insulation class:	Class II (double insulation) □

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS


Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Not resistant	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ SURFACE MOUNTING JUNCTION BOXES




■ VERSIONS



With cable sleeves

- Press-fit cover
- Screw-down cover
- Screw-down cover with 1/4 turn screws



With blank sides

- Screw-down cover
- Screw-down cover with 1/4 turn screws

■ REFERENCE STANDARDS

EN 60670-1

EN 60670-22

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Protection degree:	IP55 (versions with cable sleeves) IP56 (versions with blank sides)
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C
Material:	Thermoplastic (Halogen Free)
Impact resistance (IK degree):	IK04: Fam. 608 press-fit cover IK07: Fam. 685 with cable sleeves IK08: Fam. 686 with blank sides
Insulation class:	Class II (double insulation)
DIN rail fixing:	Yes
Colour:	Grey RAL 7035

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Not resistant	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



FLUSH MOUNTING JUNCTION BOXES



VERSIONS



Flush mounting box
- Round
- Rectangular



Covers for flush mounting boxes

REFERENCE STANDARDS

EN 60670-1

EN 60670-22

MARKINGS AND DIRECTIVES



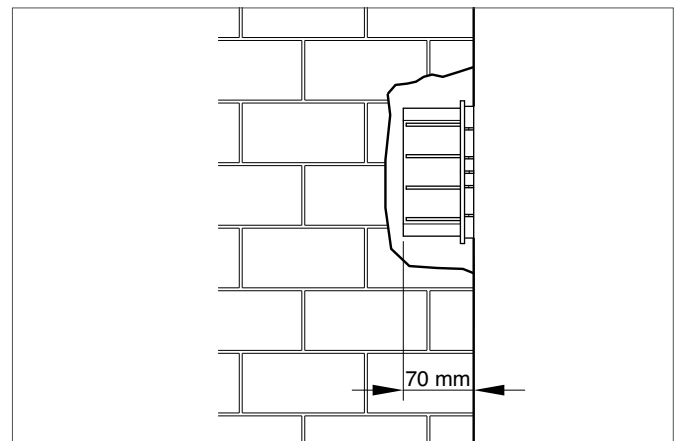
QUALITY MARKS



TECHNICAL CHARACTERISTICS

Protection degree:	IP40
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C
Material:	Thermoplastic (Halogen Free)
Colour:	White
DIN rail fixing:	Yes
Impact resistance (IK degree):	IK04 (box) IK07 (cover)

FLUSH MOUNTING INSTALLATION



BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not resistant	Not resistant	Limited resistance	Resistant	Not resistant	Not resistant	Not resistant	Limited resistance	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

INDUSTRIAL ADAPTORS



VERSIONS

	One-way adaptors
	Two-ways adaptors with interlocked switch socket outlets
	Two-way adaptors
	Three/Five ways adaptors
	Three-ways adaptors with protection devices

REFERENCE STANDARDS

EN 60309-1
EN 60309-2
EN 60670-1
EN 60670-24

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Protection degree:	IP20-IP44 (One-way adaptors) IP44-IP66-IP67 (Multi-ways multipli)
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C/750°C (body) 850°C (contact carrier)
Material:	Thermoplastic
Impact resistance (IK degree):	IK08

	Four-ways adaptors
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BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resiste	Not resistant	Not resistant	Limited resistance	Resiste	Not resistant	Not resistant	Not resistant	Limited resistance	Resiste	Resiste

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



■ AUTOMATIC CABLE REELS FOR INDUSTRIAL USE



■ REFERENCE STANDARDS

EN 61242

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



Automatic cable reels with cable only - IP41



Automatic cable reels with cable and domestic plug and connector - IP40



Automatic cable reels with cable, domestic plug and Heavy Duty lamp - IP20



Automatic cable reels with cable, industrial plug and portable lamp - IP40

■ TECHNICAL CHARACTERISTICS

Rated current:	2,5A-4A-6A-10A
Rated voltage:	12÷24V~ - 230V~
Insulating voltage:	250V~
Protection degree:	IP20-IP40-IP41
Installation temperature:	-25°C +40°C
Self extinguishing degree (GWT):	650°C
Material:	Thermoplastic
Impact resistance (IK degree):	IK08
Cable:	H07RN-F (Cable reel with industrial plug and portable lamp)

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resiste	Not resistant	Not resistant	Limited resistance	Resiste	Not resistant	Not resistant	Not resistant	Limited resistance	Resiste	Resiste

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE REELS FOR INDUSTRIAL USE



■ REFERENCE STANDARDS

EN 61242

EN 61316


■ MARKINGS AND DIRECTIVES




■ QUALITY MARKS




■ VERSIONS




ROLLER3 30 Series
- For domestic and industrial applications



ROLLER-BLOCK 330 Series
- With mobile stand for distribution assembly



ROLLER 450 Series
- For industrial applications



ROLLER-BLOCK 450 Series
- With mobile stand with wheels for distribution assembly

■ TECHNICAL CHARACTERISTICS

Rated voltage:	230÷400V~
Frequency:	50/60Hz
Protection degree:	IP20-IP44-IP55 (according to socket outlets type)
Installation temperature:	-25°C +60°C
Self extinguishing degree (GWT):	650°C (body) 850°C (contact carrier)
Material:	Metal/Thermoplastic (stand)
Impact resistance (IK degree):	Roller 300: IK07 Roller 450: IK08
Cable for industrial versions:	Type H07RN-F
Cable for domestic versions:	Type H05VV-F

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not resistant	Not resistant	Limited resistance	Resistant	Not resistant	Not resistant	Not resistant	Limited resistance	Not resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WARNING DEVICES FOR FIXED PLACEMENT ON CONSTRUCTION SITE



■ VERSIONS



Incandescent lamp - 60W 250V
 - Polypropylene diffuser
 - Polycarbonate diffuser



LED lamp
 - Automatic lighting by twilight sensor

■ REFERENCE STANDARDS

EN 60598-1

EN 60598-2-1

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated voltage:	6 V $\overline{\text{---}}$ - 250V~
Protection degree:	IP44 (fam. 780-781) IP55 (fam. 786)
Installation temperature:	Polypropylene diffuser: -5°C +35°C Polycarbonate diffuser: -15°C +35°C
Self extinguishing degree (GWT):	650°C
Material:	Thermoplastic
Impact resistance (IK degree):	IK07
Cable entries:	PG11-PG13
Insulation class:	Class II (double insulation) \square
Lampholder type:	E27
Installation on inflammable surface:	Yes
Colour:	Red Transparent

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Limited resistance	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

PORTABLE LIGHTING DEVICES



REFERENCE STANDARDS

EN 60598-1

EN 60598-2-8

QUALITY MARKS



VERSIONS



IP20
- Standard version
- Heavy Duty version



IP65

TECHNICAL CHARACTERISTICS

Protection degree:	IP20-IP65
Installation temperature:	-5°C +35°C
Rated wattage:	60W
Self extinguishing degree (GWT):	650°C
Impact resistance (IK degree):	IK08 (IP65 version) IK09 (IP20 version)
Cable entries:	8-13mm (version without cable)
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Lampholder type:	E27
Material:	Thermoplastic

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

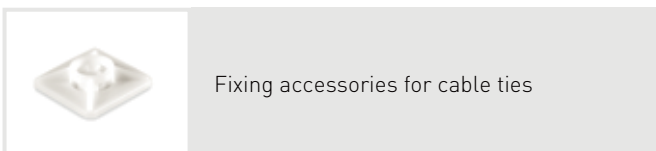
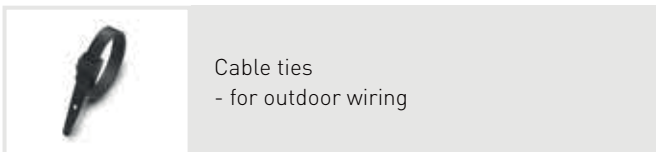
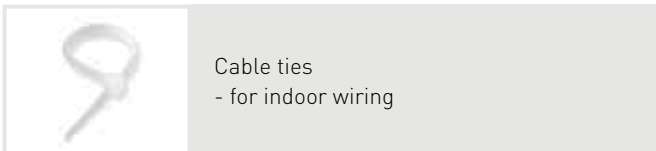
Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Limited resistance	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ SELF-LOCKING PLASTIC TIES



■ VERSIONS



■ REFERENCE STANDARDS

EN 62275

■ MARKINGS AND DIRECTIVES



■ TECHNICAL CHARACTERISTICS

Installation temperature:	-10°C +60°C Versions for indoor wiring -30°C +60°C Versions for outdoor wiring
Self extinguishing degree (GWT):	650°C
Material:	Thermoplastic (Halogen Free)
Colour:	Black Natural

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not resistant	Not resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ DIMENSIONS

Cable ties for outdoor wiring

Dimensions (mm)	Tightening Ø MIN ÷ MAX (mm)	Tensile strenght (kg)
6x115	5 ÷ 25	8
6x180	9 ÷ 45	28
9x132	8 ÷ 27	40
9x180	10 ÷ 38	40
9x260	25 ÷ 63	57
9x360	25 ÷ 93	57

■ DIMENSIONS

Cable ties for indoor wiring

Dimensions (mm)	Tightening Ø MIN ÷ MAX (mm)	Tensile strenght (kg)
2.5x98	1 ÷ 21	8
2.5x135	1 ÷ 32	8
2.6x160	1 ÷ 40	8
2.6x200	1 ÷ 52	8
3.5x140	2 ÷ 32	18
3.5x200	3 ÷ 50	18
3.5x290	2 ÷ 80	18
3.5x370	2 ÷ 103	18
4.8x178	2 ÷ 45	22
4.5x200	3 ÷ 50	22
4.8x250	3 ÷ 68	22
4.5x290	4 ÷ 78	22
4.5x360	4 ÷ 100	22
4.5x430	4 ÷ 115	22
7.8x180	4 ÷ 45	55
7.8x300	4 ÷ 80	55
7.8x365	8 ÷ 100	55
9x780	32 ÷ 233	71



■ TERMINALS AND TERMINAL BLOCKS FOR ELECTRICAL CONNECTIONS



■ VERSIONS



Insulated wire connectors T85



Multi ways insulated wire connectors T85



Terminal strips T85



Terminal strips T140

■ REFERENCE STANDARDS

IEC 60998-1

IEC 60998-2-1

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated current:	17,5A÷125A
Rated voltage:	250V~ - 450V~ - 750V~
T marking:	T85 - T140
Installation temperature:	-5°C +60°C (insulated wire connectors and multi ways insulated wire connectors) -15°C +60°C (Terminal strips T85) -25°C +60°C (Terminal strips T140)
Self extinguishing degree (GWT):	850°C T85 - 960°C T140
Material:	Thermoplastic (Halogen Free)
Impact resistance (IK degree):	IK07 (Insulated wire connectors and Terminal strips T85) IK08 (Multi ways insulated wire connectors) IK09 (Terminal strips T140)
Colour:	Transparent White Black Natural

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - INSULATED WIRE CONNECTORS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - T85 TERMINAL STRIPS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Resistant	Resistant	Limited resistance	Limited resistance	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - T140 TERMINAL STRIPS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not resistant	Not resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CONNECTION CAPACITY

Nominal size mm ²	Cable entry Ø mm (•)	Rated current A	Type of conductor	Insulated wire connectors - single and in strips - T85 Conductors section (mm ²)											
				0,75	1	1,5	2,5	4	6	10	16	25	35	50	
1,5	3	17,5	rigid	2÷4	1÷3	1÷2	1								
			flexible	2÷4	1÷3	1÷2	1								
2,5	4	24	rigid		3÷5	2÷3	1÷2	1							
			flexible		2÷4	2÷3	1÷2	1							
4	4,6	32	rigid			3÷4	2÷3	1÷2	1						
			flexible			3÷4	2÷3	1÷2	1						
6	6	41	rigid			3÷5	2÷3	1÷2	1÷2	1					
			flexible			3÷4	2÷3	1÷2	1÷2	1					
10	8	57	rigid					3÷5	2÷4	1÷2	1				
			flexible					3÷4	2÷3	1÷2	1				
16	10	76	rigid						3÷5	2÷3	1÷2	1			
			flexible						3÷4	2÷3	1÷2	1			
25	12	101	rigid							2÷3	2÷3	2	1		
			flexible						3÷5	2÷3	2÷3	2	1		
35	14	125	rigid									2÷4	1÷3	1÷2	1
			flexible										2÷4	1÷3	1÷2



Nominal size mm ²	Cable entry Ø mm (•)	Rated current A	Type of conductor	Terminal blocks T85 e T140 Conductors section (mm ²)											
				0,75	1	1,5	2,5	4	6	10	16	25	35		
2,5	2,7	24	rigid	1÷3	1÷2	1	1								
			flexible	1÷2	1÷2	1	1								
4	3	32	rigid	2÷4	1÷3	1÷2	1	1							
			flexible	1÷2	1÷2	1	1	1							
6	3,5	41	rigid			1÷3	1÷2	1	1						
			flexible			1÷3	1÷2	1							
10	4,4	57	rigid			1÷2	1÷2	1	1	1					
			flexible			1÷2	1÷2	1	1						
16	5,5	76	rigid				2÷3	1÷2	1	1	1				
			flexible				2	1÷2	1	1					
25	7,4	101	rigid					2÷4	2÷3	1	1	1			
			flexible					2÷3	1÷2	1	1				
35	9	125	rigid							2÷4	1÷2	1	1	1	
			flexible							2÷3	1÷2	1	1		



The table refers to a single terminal and to connections from one side only.

Nominal size mm ²	Rated current A	Type of conductor	Multi ways wire connectors - T85 Conductors section (mm ²)											
			1	1,5	2,5	4	6	10	16	25	35	50		
6	41	rigid		1÷6	1÷4	1÷3	1÷2							
	41	flexible	1÷7	1÷5	1÷4	1÷3	1÷2							
16	76	rigid					1	1	1					
	76	flexible					1÷4	1÷2	1					
35	125	rigid								1	1	1		
	125	flexible								1÷2	1	1		



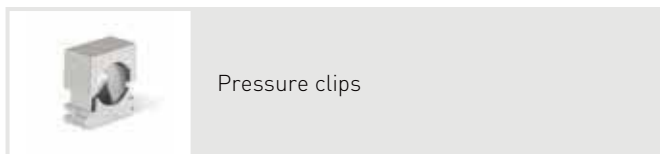
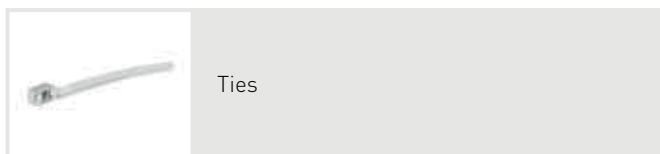
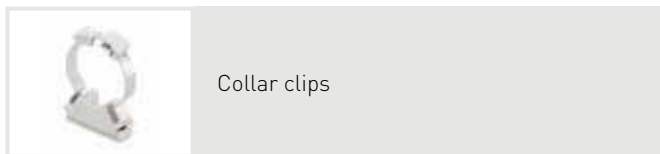
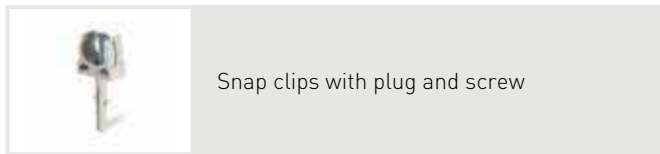
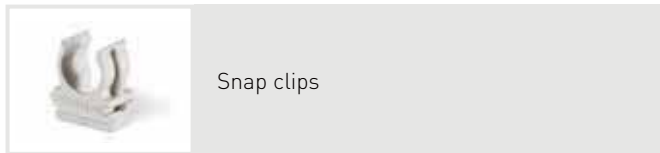
TERMINALS



FASTENERS FOR CABLE CONDUITS



THERMOPLASTIC VERSIONS



REFERENCE STANDARDS

EN 61386-1

EN 61386-25

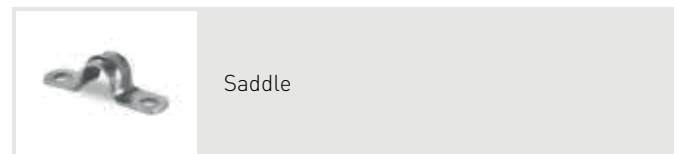
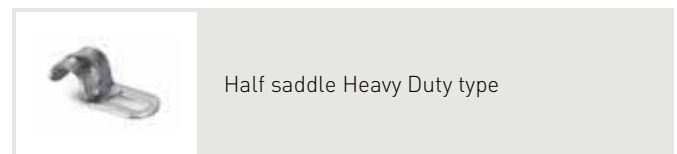
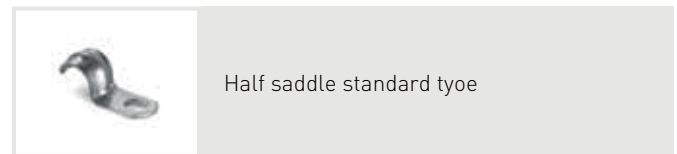
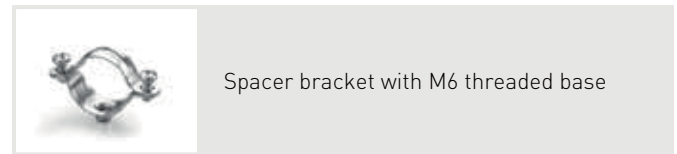
MARKINGS AND DIRECTIVES



TECHNICAL CHARACTERISTICS

Per tubo Ø (mm):	16-20-25-32-40-50
Installation temperature:	-15°C +60°C
Self extinguishing degree (GWT):	850°C
Material:	Thermoplastic (Halogen Free) Galvanized steel
Colour:	Grey RAL 7035 Brass

GALVANIZED STEEL VERSIONS



BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS (THERMOPLASTIC VERSIONS)

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Limited resistance	Limited resistance	Limited resistance	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CONNECTING ELEMENTS WITH COINJECTED GASKET FOR CABLE CONDUITS



■ REFERENCE STANDARDS

EN 61386-1
EN 61386-21


■ MARKINGS AND DIRECTIVES




■ QUALITY MARKS




■ VERSIONS




90° bends




Conduit couplings



Conduit-to-box coupling




Conduit-to-sheath couplings (same diameter)



Conduit-to-box flexible coupling

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP65 (flexible couplings) IP66 (conduit-to-sheath couplings, conduit-to-conduit flexible couplings) IP66/IP67 (90° bends, conduit couplings, conduit-to-box couplings)
Installation ambient temperature:	-5°C +60°C
Self extinguishing degree (GWT):	750°C
Impact resistance (IK degree):	IK08
Material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL 7035



Conduit-to-conduit flexible couplings

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Resistant	Resistant	Limited resistance	Limited resistance	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



CONNECTING ELEMENTS FOR CABLE CONDUITS - IP40

REFERENCE STANDARDS

EN 61386-1

EN 61386-21




MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS

	Inspection elbow
	Flat tee inspection
	90° bends
	Conduit coupling
	Corrugated conduit couplings

TECHNICAL CHARACTERISTICS

Protection degree:	IP40
Installation temperature:	-5°C +60°C
Self extinguishing degree (GWT):	750°C
Impact resistance (IK degree):	IK06 (Inspection version) IK07
Material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL 7035 Transparent

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Resistant	Resistant	Limited resistance	Limited resistance	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

CONNECTING ELEMENTS FOR CABLE CONDUITS - IP65

REFERENCE STANDARDS

EN 61386-1

EN 61386-21



MARKINGS AND DIRECTIVES

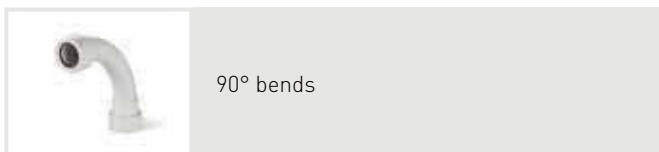


QUALITY MARKS

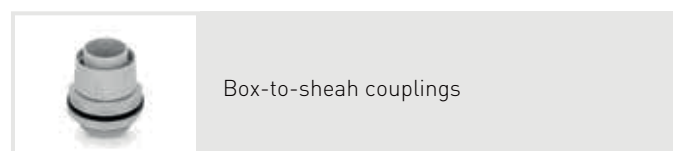
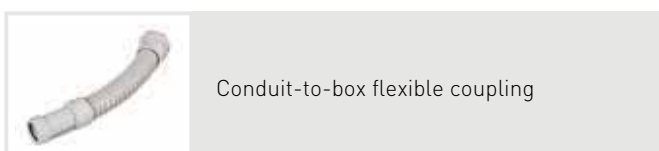
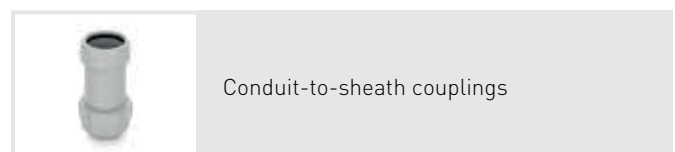
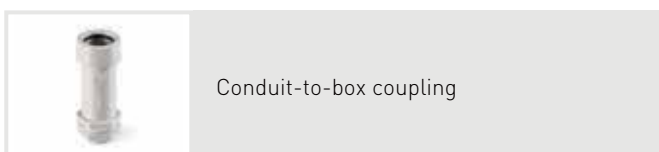
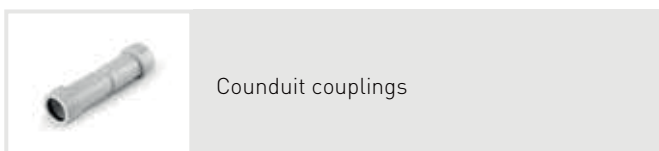
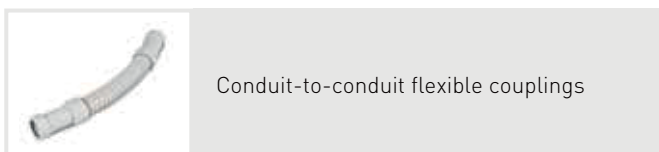


VERSIONS

TECHNICAL CHARACTERISTICS



Protection degree:	IP65
Installation temperature:	-5°C +60°C
Self extinguishing degree (GWT):	750°C
Impact resistance (IK degree):	IK07
Material:	Thermoplastic
Colour:	Grey RAL 7035



BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Limited resistance	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



4 WADO SERIES - SLOTTED CABLE TRUNKING

■ SLOTTED CABLE TRUNKING SYSTEM



■ REFERENCE STANDARDS

EN 50085-1

EN 50085-2-3

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



Slotted cable trunkings
- Short pitch
- Standard pitch

■ TECHNICAL CHARACTERISTICS

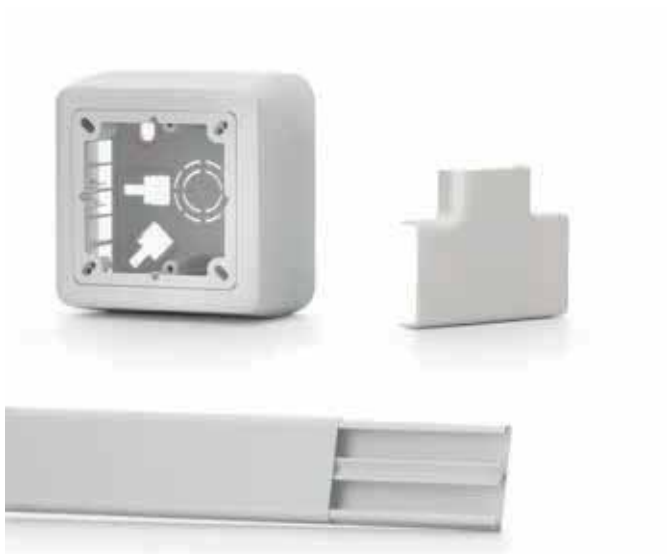
Installation temperature:	-45°C +60°C
Self extinguishing degree (GWT):	960°C
Impact resistance (IK degree):	IK06
Material:	Thermoplastic
Colour:	Grey RAL 7030

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Resistant	Resistant	Limited resistance	Resistant	Not resistant	Not resistant	Limited resistance	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ CABLE TRUNKING SYSTEM



■ REFERENCE STANDARDS

EN 50085-1
EN 50085-2-1

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS

	With standard lid (removable without tool)
	With enveloping lid (removable with tool)
	With hinged lid (adhesive bottom)
	Accessories

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP40
Installation temperature:	-20°C +60°C
Self extinguishing degree (GWT):	750°C
Impact resistance (IK degree):	IK06
Material:	Thermoplastic
Colour:	White RAL 9003

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Resistant	Resistant	Limited resistance	Resistant	Not resistant	Not resistant	Limited resistance	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



TRUNKING






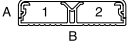
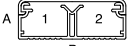
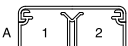
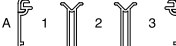
■ TECHNICAL DATA FOR THE CHOICE OF SCAME WADO SERIES MINI TRUNKINGS

Note: the maximum number of conductors that can be installed takes into account the regulatory provisions by CEI 64-8 Reference Standard which requires the application of a filling coefficient of 50% for the compartments intended to house energy cables

■ STANDARD LID





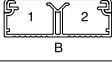
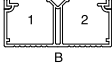
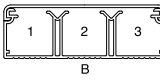
removable:
without tools

	Dimensions b x h (mm)	N° of com- partments	A (mm)	B (mm)	Compart- ments	Com- partment section (mm ²)	Total section (mm ²)	Capacity			
								Maximum number of conductors that can be installed cable H07V-U / R / K			
								Sect. (mm ²)			
							1,5	2,5	4	6	
	20x10	1	10	20	1	129	129	5	4	3	2
	20x15	1	15	20	1	170	170	7	5	4	3
	30x15	1	15	30	1	288	288	12	9	7	5
	40x10	2	10	40	1	126	252	5	3	3	2
					2	126		5	3	3	2
	40x15	2	15	40	1	173	346	8	5	4	3
					2	173		8	5	4	3
	40x20	2	20	40	1	259	518	11	8	6	5
					2	259		11	8	6	5
	60x20	3	20	60	1	254	774	11	8	6	5
					2	266		11	8	6	5
					3	254		11	8	6	5

■ ENVELOPING LID



removable:
with tool

	Dimensions b x h (mm)	N° of com- partments	A (mm)	B (mm)	Compart- ments	Com- partment section (mm ²)	Total section (mm ²)	Capacity			
								Maximum number of conductors that can be installed cable H07V-U / R / K			
								Sect. (mm ²)			
							1,5	2,5	4	6	
A  B	20x15	1	15	20	1	160	160	8	5	4	3
A  B	30x15	1	15	30	1	278	278	13	9	7	5
A  B	40x15	2	15	40	1	168	336	7	5	4	3
					2	168		7	5	4	3
A  B	40x20	2	20	40	1	259	518	11	8	6	5
					2	259		11	8	6	5
A  B	60x20	2	20	60	1	254	774	12	7	6	5
					2	266		12	8	6	5
					3	254		12	7	6	5



MOBILE DOMESTIC PLUGS AND SOCKETS



REFERENCE STANDARDS

CEI 23-50

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



Plugs with axial cable outlet



Flat Plugs with 90° angled cable outlet



Connectors with axial cable outlet

TECHNICAL CHARACTERISTICS

Rated current:	10A-16A
Rated voltage:	250V~
Frequency:	50Hz
Protection degree:	IP20D
Installation temperature:	-15°C +60°C
Cabling capacity of the terminals:	0,75mm ² ÷ 1,5mm ² (10A) 0,75mm ² ÷ 2,5mm ² (16A)
Self extinguishing degree (GWT):	750°C
Material:	Thermoplastic
Colour:	White RAL 9010 Black RAL 9011

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

MOBILE DOMESTIC PLUGS AND SOCKETS WITH EXTERNAL CABLE SLEEVE



REFERENCE STANDARDS

CEI 23-50

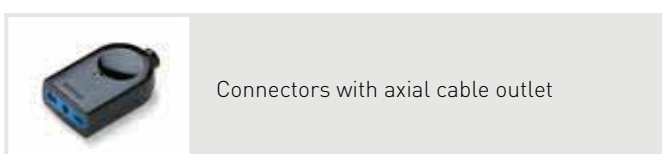
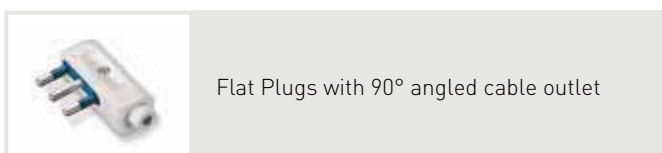
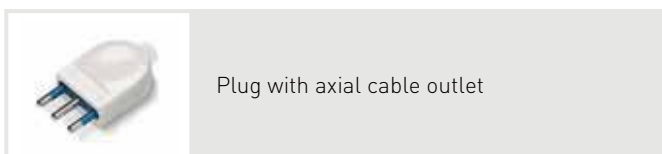
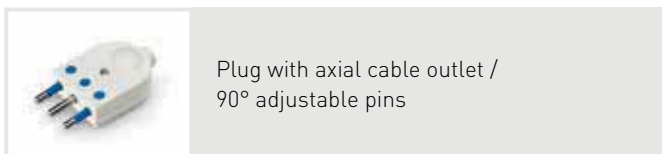
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	10A-16A
Rated voltage:	250V~
Frequency:	50Hz
Protection degree:	IP20D
Installation temperature:	-15°C +60°C
Cabling capacity of the terminals:	0,75mm ² ÷ 1,5mm ² (10A) 0,75mm ² ÷ 2,5mm ² (16A)
Self extinguishing degree (GWT):	750°C
Material:	Thermoplastic
Colour:	White RAL 9010 Black RAL 9011

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

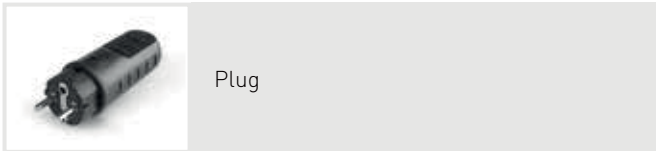
Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



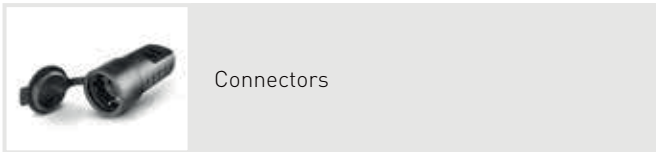
■ DOMESTIC PLUGS AND CONNECTORS WITH RUBBER BODY



■ VERSIONS



Plug



Connectors



Multiple sockets with switch

■ REFERENCE STANDARDS

CEI 23-124

IEC 60884-1

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated current:	16A
Rated voltage:	250V~
Frequency:	50/60Hz
Protection degree:	IP44
Installation temperature:	-15°C +60°C
Cabling capacity of the terminals:	0,75mm ² ÷ 2,5mm ²
Self extinguishing degree (GWT):	650°C (body) 750°C (contact carrier)
Material:	Thermoplastic - Rubber
Colour:	Black

MOBILE DOMESTIC PLUGS AND SOCKETS WITH SIDE EARTH



REFERENCE STANDARDS

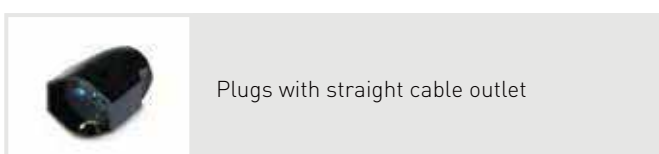
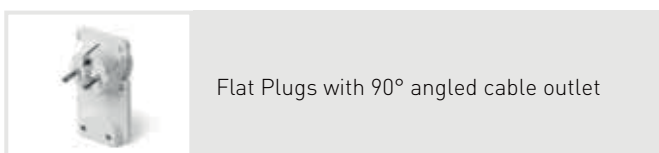
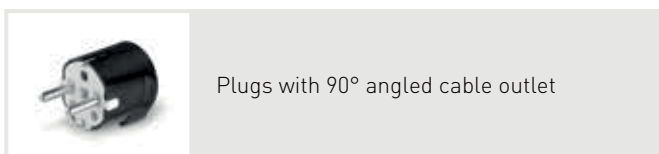
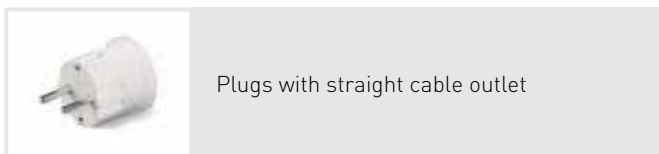
CEI 23-50

IEC 60884-1

QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A
Rated voltage:	250V~
Insulating voltage:	250V~
Frequency:	50/60Hz
Protection degree:	IP20D
Installation temperature:	-15°C +60°C
Cabling capacity of the terminals:	0,75mm ² ÷ 2,5mm ² (16A)
Self extinguishing degree (GWT):	750°C
Material:	Thermoplastic
Colour:	White RAL 9010 Black RAL 9011

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not resistant	Not resistant	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



DOMESTIC ADAPTORS



VERSIONS



One-way adaptors



Multi-ways adaptors

REFERENCE STANDARDS

CEI 23-57

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	10A-16A
Rated voltage:	250V~
Frequency:	50Hz
Protection degree:	IP20D
Installation temperature:	-15°C +60°C
Self extinguishing degree (GWT):	750°C
Material:	Thermoplastic
Colour:	White RAL 9010 Black RAL 9011

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

DOMESTIC ADAPTORS



REFERENCE STANDARDS

CEI 23-57

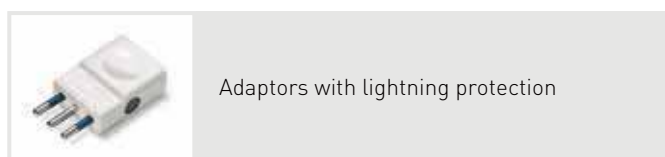
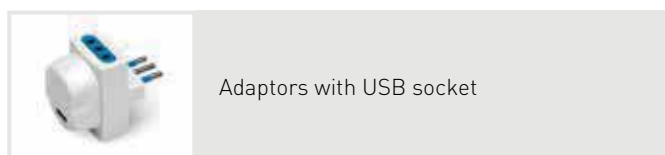
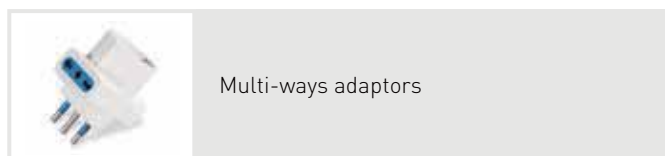
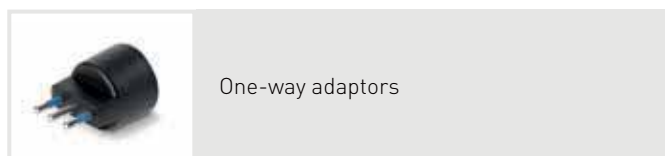
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	10A-16A
Rated voltage:	250V~
Frequency:	50Hz
Protection degree:	IP20D
Installation temperature:	-15°C +60°C
Self extinguishing degree (GWT):	750°C
Material:	Thermoplastic
Colour:	White RAL 9010 Black RAL 9011

LIGHTNING PROTECTION
Lightning protection devices are equipped with an electronic device which in case of overvoltage (> 300V ~ - Max 21J) beyond the transient time of 8/20 microseconds lowers its resistance and generates a short circuit (1.2kA discharge power).
This short circuit triggers the protection fuse, which protects when opening the load downstream. It should be noted that the device always allows power even if the indicator light is off, but in this case the lightning protection device no longer guarantees any type of protection.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



DOMESTIC ADAPTORS



■ DOMESTIC MULTIPLE SOCKETS



■ VERSIONS



Multiple sockets



Space saver multiple sockets



Multiple sockets with lightning protection



Desk multiple sockets

■ REFERENCE STANDARDS

CEI 23-50

CEI 23-124

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated current:	10A-16A
Rated voltage:	250V~
Frequency:	50/60Hz
Protection degree:	IP20D
Installation temperature:	-15°C +60°C
Cabling capacity of the terminals (senza cavo):	0,75mm ² ÷ 2,5mm ²
Self extinguishing degree (GWT):	750°C
Material:	Thermoplastic
Colour:	White RAL 9010 Black RAL 9011



LIGHTNING PROTECTION

Lightning protection devices are equipped with an electronic device which in case of overvoltage (> 300V - - Max 21J) beyond the transient time of 8/20 microseconds lowers its resistance and generates a short circuit (1.2kA discharge power).

This short circuit triggers the protection fuse, which protects when opening the load downstream. It should be noted that the device always allows power even if the indicator light is off, but in this case the lightning protection device no longer guarantees any type of protection.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ DOMESTIC MULTIPLE SOCKETS WITH PLURISTANDARD SOCKET OUTLETS

■ REFERENCE STANDARDS

CEI 23-124

CEI 23-50



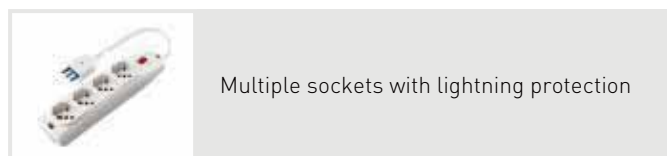
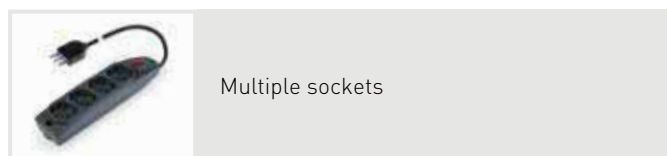
■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



■ TECHNICAL CHARACTERISTICS

Rated current:	16A
Rated voltage:	250V~
Frequency:	50Hz
Protection degree:	IP20D
Installation temperature:	-15°C +60°C
Self extinguishing degree (GWT):	750°C
Cabling capacity of the terminals:	0,75mm ² ÷2,5mm ²
Material:	Thermoplastic
Colour:	Random ¹⁾ Anthracite RAL 7021

¹⁾Random color is to be understood as randomly "white base - gray cover" or "gray base - white cover".

⚡ LIGHTNING PROTECTION

Lightning protection devices are equipped with an electronic device which in case of overvoltage (> 300V ~ - Max 21J) beyond the transient time of 8/20 microseconds lowers its resistance and generates a short circuit (1.2kA discharge power).

This short circuit triggers the protection fuse, which protects when opening the load downstream. It should be noted that the device always allows power even if the indicator light is off, but in this case the lightning protection device no longer guarantees any type of protection.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Limited resistance	Limited resistance	Resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



■ DOMESTIC MULTIPLE SOCKETS WITH SIDE SOCKET OUTLETS



■ REFERENCE STANDARDS

CEI 23-124

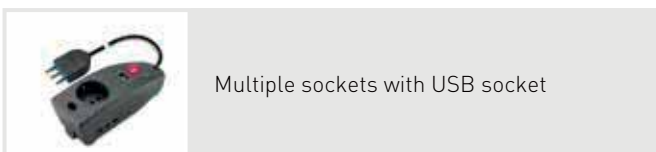
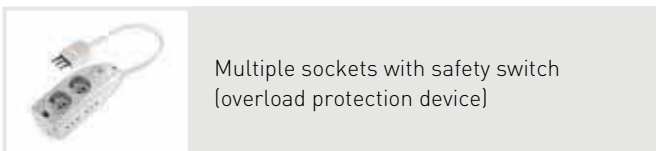
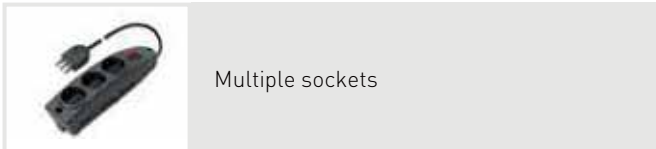
■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



■ TECHNICAL CHARACTERISTICS

Rated current:	16A
Rated voltage:	250V~
Frequency:	50Hz
Protection degree:	IP20D
Installation temperature:	-15°C +60°C
Self extinguishing degree (GWT):	750°C
Material:	Thermoplastic
Colour:	Random ¹⁾ Anthracite RAL 7021

¹⁾Random color is to be understood as randomly "white base - gray cover" or "gray base - white cover".



LIGHTNING PROTECTION

Lightning protection devices are equipped with an electronic device which in case of overvoltage (> 300V - - Max 21J) beyond the transient time of 8/20 microseconds lowers its resistance and generates a short circuit (1.2kA discharge power).

This short circuit triggers the protection fuse, which protects when opening the load downstream. It should be noted that the device always allows power even if the indicator light is off, but in this case the lightning protection device no longer guarantees any type of protection.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Resistant	Resistant	Limited resistance	Limited resistance	Resistant	Resistant	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ DOMESTIC CABLE REELS



■ REFERENCE STANDARDS

EN 61242

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS

	<p>TRIS 150: - Italian standard plug</p>
	<p>TRIS 230: - Italian standard plug - French/German standard plug</p>
	<p>TRIS PLURISTANDARD: - Italian standard plug</p>

■ TECHNICAL CHARACTERISTICS

Rated current:	10A-16A
Rated voltage:	250V~
Frequency:	50/60Hz
Protection degree:	IP20D
Installation temperature:	-5°C +40°C
Self extinguishing degree (GWT):	650°C (body) 850°C (contact carrier)
Material:	Thermoplastic
Colour:	Dark grey/red

■ THERMAL OVERLOAD SWITCH

Thermal overload switch: a bimetal device is placed at close contact with the supply cable and protects it from excessive overheating due to the Joule effect. In case of intervention, the device opens the circuit to the sockets interrupting the supply of electricity. Reactivation is only possible manually and if temperature is below the intervention threshold.

ATTENTION: The thermal overload switch is not a switch disconnector, therefore maintenance operations must be carried out after having disconnected the circuit. The thermal overload switch does not protect the load from overcurrents (overload and short-circuit).

■ WARNINGS FOR THE CORRECT USE OF SCAME CABLE REELS

- Do not use them in places with danger of explosion or fire.
- During use, the cable must be laid out on the ground or floor avoiding that it is worn and damaged (eg crushing caused by the passage of heavy loads, vehicles etc.); if necessary, adequate provision must be made mechanical protection.
- After use, carefully rewind the cable on the reel.
- Periodically check the good condition of the conductor (it must not show signs of wear, crushing and cracks) and check the electrical continuity of both phase and protective conductors.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Not resistant	Not resistant	Not resistant	Limited resistance	Resistant	Resistant

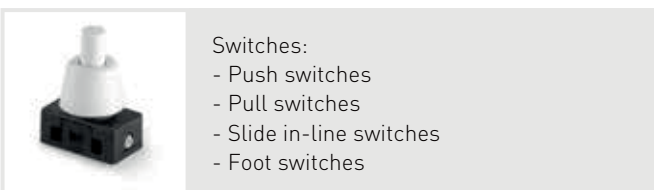
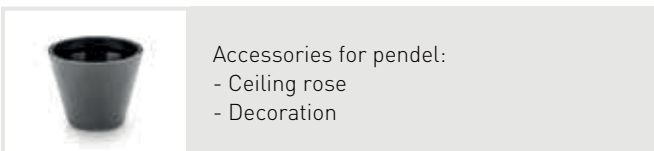
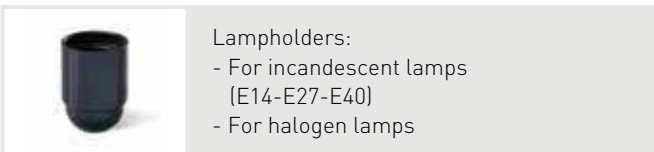
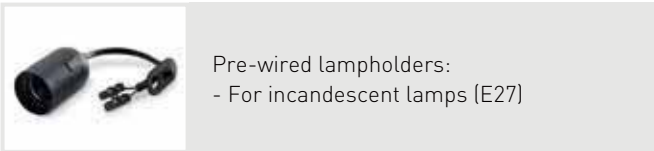
Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



■ LAMP HOLDERS, SWITCHES AND CEILING PENDELS



■ VERSIONS



■ REFERENCE STANDARDS

EN 60238

EN 60838-1

EN 61058-1

■ MARKINGS AND DIRECTIVES



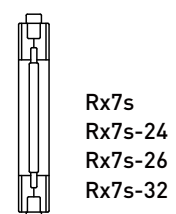
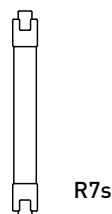
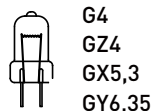
■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated current:	2A-4A
Rated voltage:	250V~
T marking:	T190 - T210 - T300
Cabling capacity of the terminals:	0,75mm ² (2A) 0,5mm ² ÷ 2,5mm ² (4A)
Self extinguishing degree (GWT):	750°C
Material:	Thermoplastic (Halogen Free)
Colour:	White, Black, Gold

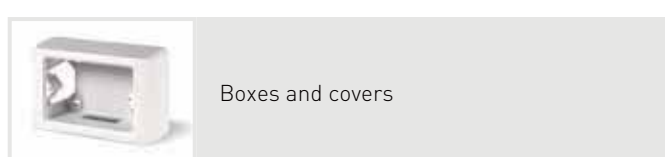
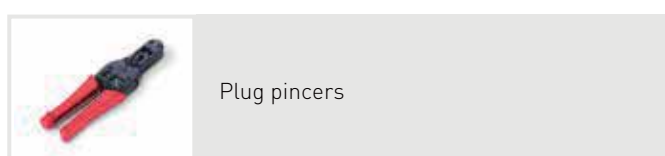
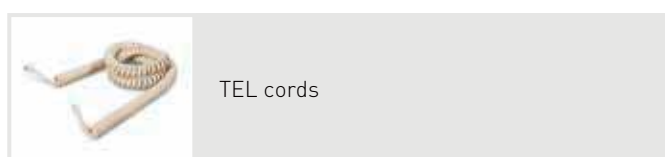
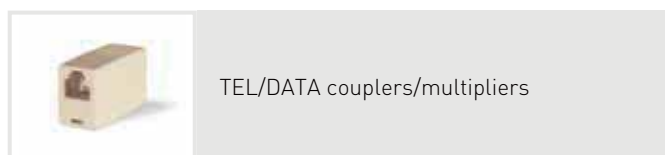
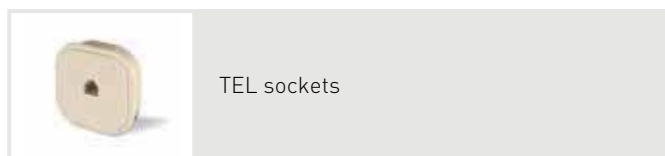
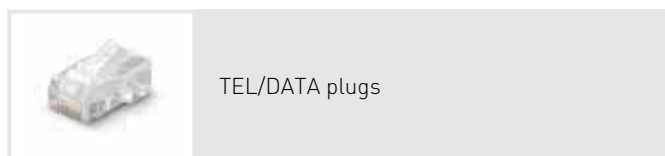
■ TYPE OF COUPLING



COMPONENTS FOR TELEPHONE SYSTEMS AND DATA TRANSMISSION



VERSIONS



REFERENCE STANDARDS

ANSI/TIA/EIA-568
ISO/IEC 11801
EN 50173
EN 60670-1

MARKINGS AND DIRECTIVES



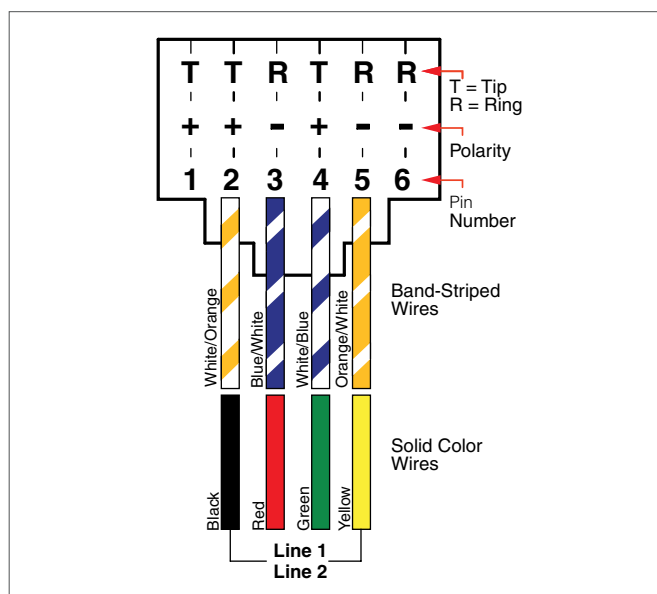
QUALITY MARKS



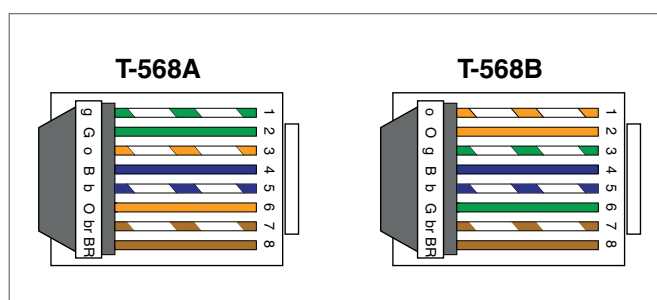
TECHNICAL CHARACTERISTICS

Installation temperature:	-15°C +60°C
Material:	Thermoplastic
Colour:	White Ivory Black Transparent

RJ11 SCHEME



RJ45 SCHEME



LAMP HOLDERS AND CHAMFER SWITCHES
TV/DATA



COMPONENTS FOR TV AND SAT SYSTEMS









REFERENCE STANDARDS

CEI EN 50083

IEC 60169

VERSIONS

	TV plugs
	TV connectors
	TV couplers
	TV splitters
	TV extension cords
	Type F SAT connectors

TECHNICAL CHARACTERISTICS

Diameter:	9,5mm
Utilization frequency:	$\leq 862 \text{ Mhz} - \leq 2400 \text{ Mhz}$
Impedance:	75 Ω

CONTROL DEVICES



REFERENCE STANDARDS

EN 60669-1
EN 61009
EN 61543

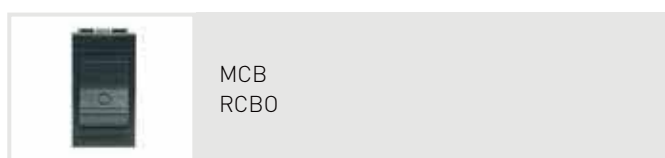
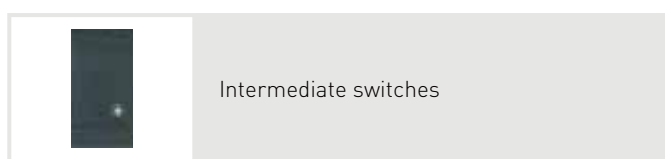
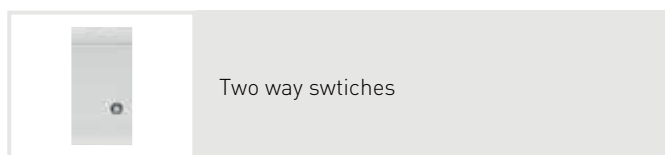
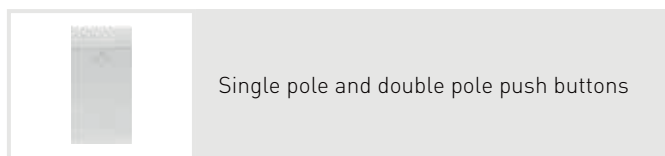
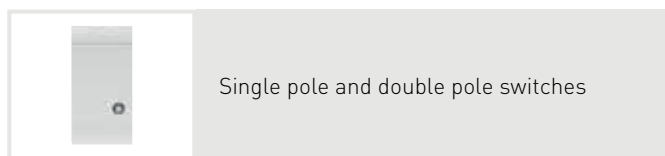
MARKINGS AND DIRECTIVES



QUALITY MARKS



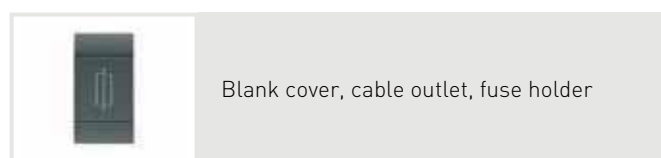
VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	6A-10A-16A-16AX ¹⁾ -20AX ¹⁾
Rated voltage:	250V~
Frequency:	50/60Hz
Protection degree:	IP20D
Installation temperature:	-15°C +60°C
Cabling capacity of the terminals:	0,75mm ² ÷ 1,5mm ² (6A) 1mm ² ÷ 2,5mm ² (10A) 1,5mm ² ÷ 4mm ² (16A) 2,5mm ² ÷ 6mm ² (20A)
Self extinguishing degree (GWT):	650°C (body) 850°C (contact carrier)
Material:	Thermoplastic (Halogen Free)
Colour:	Anthracite Pantone 432 Grey RAL 7035 Red RAL 3001

¹⁾ Devices suitable for controlling fluorescent lamps with power factor correction.



BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



TV/DATA
WIRING DEVICES



■ DOMESTIC SOCKET OUTLETS

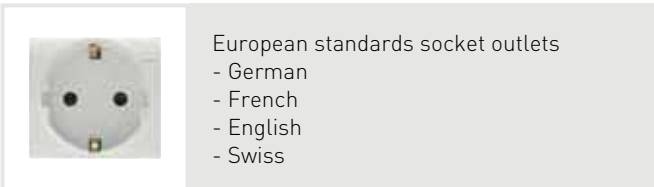


■ VERSIONS



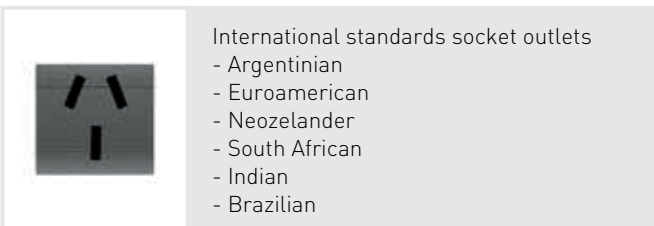
Italian standard socket outlets

- P11
- P17
- P17/11
- P30
- P40



European standards socket outlets

- German
- French
- English
- Swiss



International standards socket outlets

- Argentinian
- Euroamerican
- Neozelander
- South African
- Indian
- Brazilian

■ REFERENCE STANDARDS

CEI 23-50
IEC 60884-1
IRAM 2071
SANS 164-1
BS 1363
BS 546
NF C61-303

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated current:	10A-13A-15A-16A-20A
Rated voltage:	250V~
Frequency:	50/60Hz
Protection degree:	IP20D
Installation temperature:	-15°C +60°C
Self extinguishing degree (GWT):	650°C (body) 850°C (contact carrier)
Material:	Thermoplastic (Halogen Free)
Cabling capacity of the terminals:	1mm ² ÷ 2,5mm ² (10A) 1,5mm ² ÷ 2,5mm ² (13A-15A) 1,5mm ² ÷ 4mm ² (16A) 2,5mm ² ÷ 6mm ² (20A)
Colour:	Anthracite Pantone 432 Grey RAL 7035 Red RAL 3001

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

TV/SAT/DATA OUTLETS



REFERENCE STANDARDS

EN 50083
EN 50173
IEC 60169
ANSI/TIA/EIA-568

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS

	TV male socket outlet - Direct/Derived - Terminal 75Ω - Attenuation 10dB
	Coax/sat/cat. F socket outlet - Direct
	TV/SAT socket outlet
	Telephone socket outlet (RJ11)
	Data socket outlet (RJ45)

TECHNICAL CHARACTERISTICS

Utilization frequency:	5÷862 Mhz (TV) 950÷2400 Mhz (SAT)
Protection degree:	IP20D
TV socket outlets diameter:	9,5mm
Installation temperature:	-15°C +60°C
Material:	Thermoplastic (Halogen Free)
Colour:	Anthracite Pantone 432 Grey RAL 7035

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



CONTROL DEVICES



REFERENCE STANDARDS

EN 60669-1

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS

	One way switches single pole and double pole - flush mounting - surface mounting
	Two way switches single pole - flush mounting - surface mounting
	Intermediate switch - flush mounting - surface mounting
	Push button single pole - flush mounting - surface mounting
	Spur units - flush mounting

TECHNICAL CHARACTERISTICS

Rated current:	10A-10AX ¹⁾ -20A-20AX ¹⁾
Rated voltage:	250V~
Frequency:	50/60Hz
Protection degree:	IP66
Cable entries:	Blank side
Installation temperature:	-20°C +60°C
Cabling capacity of the terminals:	1mm ² ÷ 2,5mm ² (10A) 1,5mm ² ÷ 4mm ² (16A)
Self extinguishing degree (GWT):	650°C (body) 850°C (contact carrier)
Impact resistance (IK degree):	IK07
Material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL 7035
LED colour:	Orange

¹⁾Devices suitable for controlling fluorescent lamps with power factor correction.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ WATERTIGHT SOCKET OUTLETS



■ TECHNICAL CHARACTERISTICS

Rated current:	10A-13A-15A-16A
Rated voltage:	250V~
Frequency:	50/60Hz
Protection degree:	IP66
Cable entries:	Blank side
Installation temperature:	-20°C +60°C
Cabling capacity of the terminals:	1mm ² ÷ 2,5mm ² (10A) 1,5mm ² ÷ 2,5mm ² (13A-15A) 1,5mm ² ÷ 4mm ² (16A)

The IP66 degree of protection with the plug inserted is guaranteed mainly with angled plugs which can be coupled with the respective Standard sockets. This is the breakdown for the main Italian and European standards (Europe mainland):		Italian standard - 16A	Italian standard - 16A	German standard - 16A	French standard - 16A
		P17/P11 137.4403 137.6403	P30 137.4404 137.6404	137.4407 137.6407	P31 137.4411 137.6411
Plug 10A 2P+E extra flat SPA11	Wireable (body length up to 50 mm)	•			
	Permanent (body length up to 50 mm)	•			
Plug 16A 2P+E extra flat SPA17	Wireable (body length up to 50 mm)	•			
	Permanent (body length up to 50 mm)	•			
Plug 10A 2P straight S10 "Europlug"	Wireable (body length up to 41 mm)		•	•	•
	Permanent (body length up to 50 mm)		•	•	•
Plug 10A 2P+E straight S11	Wireable (body length up to 41 mm)		•		
	Permanent (body length up to 50 mm)		•		
Plug 16A 2P+E straight S30	Wireable (body length up to 41 mm)		•	•	
	Permanent (body length up to 45 mm)		•	•	
Plug 16A angled S30	Wireable (body length up to 60 mm)		•	•	
	Permanent (body length up to 65 mm)		•	•	
Plug 16A angled S3	Wireable (body length up to 60 mm)		•	•	•
	Permanent (body length up to 65 mm)		•	•	•

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ REFERENCE STANDARDS

CEI 23-50
IEC 60884-1
IRAM 2071
SANS 164-1
BS 1363
BS 546
NF C61-303

■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



Self extinguishing degree (GWT):	650°C (body) 850°C (contact carrier)
Impact resistance (IK degree):	IK07
Material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL 7035 (base) Smoke-tinted transparent (cover)



WIRING DEVICES



ENCLOSURES AND FLANGE ADAPTORS



REFERENCE STANDARDS

EN 60670-1

EN 60670-22

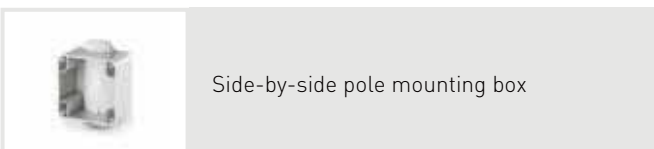
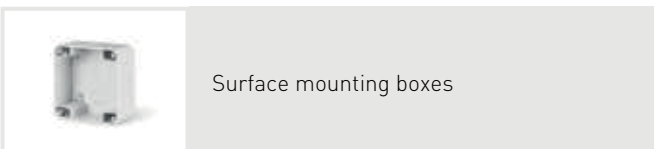
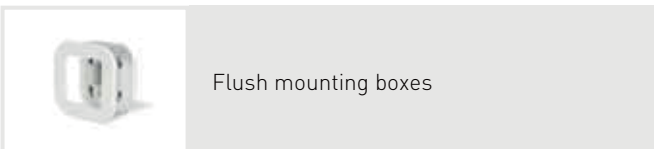
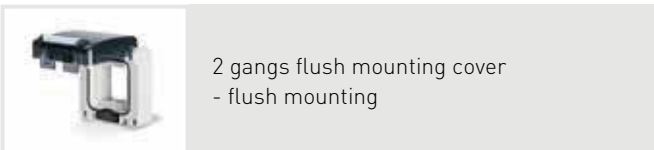
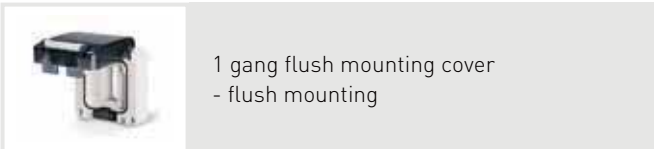
MARKINGS AND DIRECTIVES



QUALITY MARKS



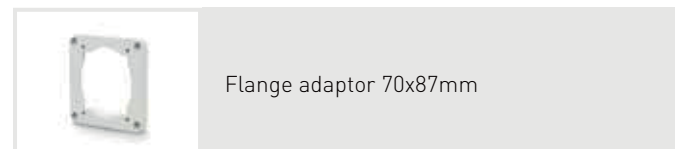
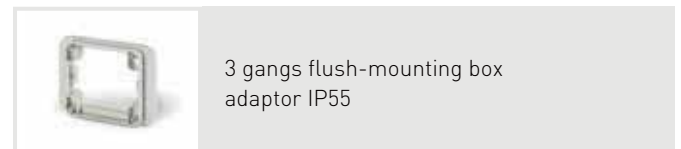
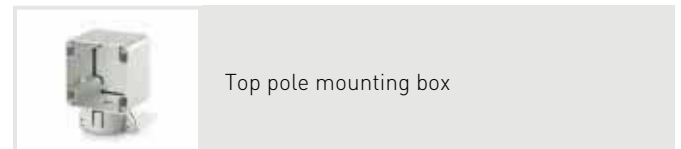
VERSIONS



TECHNICAL CHARACTERISTICS

Protection degree:	IP66 ¹⁾
Cable entries:	Blank side
Installation temperature:	-20°C +60°C
Self extinguishing degree (GWT):	650°C
Material:	Thermoplastic (Halogen Free)
Impact resistance (IK degree):	IK07
Colour:	Grey RAL 7035 (base) Smoke-tinted transparent (cover)

¹⁾ IP55 for 3-module flush-mounting box adapter flange.



Enclosures accept EVOLUTION Series modules.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Limited resistance	Resistant	Not resistant	Not resistant	Resistant	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ MODULAR ENCLOSURES FOR DOMESTIC SWITCHES AND SOCKET OUTLETS



■ REFERENCE STANDARDS

EN 60670-1

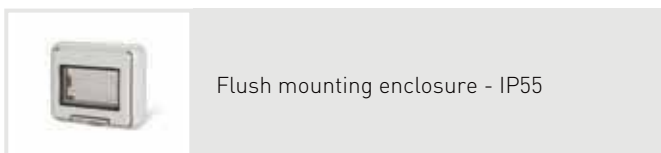
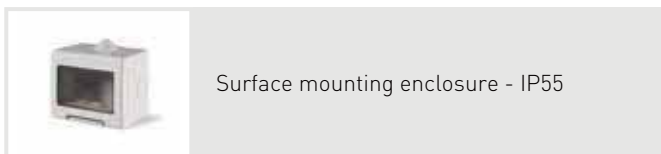
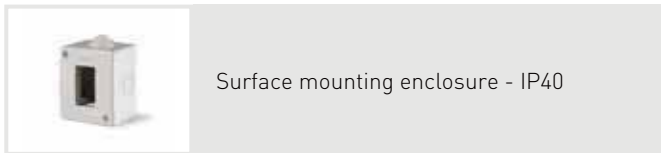
■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



Enclosures accept EVOLUTION Series modules.

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP40-IP55
Installation temperature:	-5°C +60°C
Self extinguishing degree (GWT):	650°C
Impact resistance (IK degree):	IK06
Material:	Thermoplastic (Halogen Free)
Colour:	Grey RAL 7035 Anthracite RAL 7021 (flush mounting version)

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Resistant	Resistant	Not resistant	Not resistant	Not resistant	Limited resistance	Resistant	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



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Catalogue Number	Pg.	Catalogue Number	Pg.	Catalogue Number	Pg.	Catalogue Number	Pg.	Catalogue Number	Pg.	Catalogue Number	Pg.		
101.6200	725	101.6429.G	722	116.70	630	137.3410	708	146.559	642	161.60510.R	655	180.813	692
101.6200.11	725	101.6431	723	116.70/N	630	137.3462	708	146.559/N	642	161.60511.N	654	180.814	692
101.6200.12	725	101.6431.01	723	130.2063	633	137.4001	709	146.560	642	161.60511.R	654	180.815	692
101.6200.24	725	101.6431.01G	723	130.2063/N	633	137.4002	709	146.560/N	642	165.10401.N	650	180.815P	692
101.6201	718	101.6431.10	723	130.2064	633	137.4003	709	146.561	642	165.10401.R	650	180.920	691
101.6201.G	718	101.6431.10G	723	130.2064/N	633	137.4022	709	146.561/N	642	165.20401.N	650	180.921	691
101.6203	718	101.6431.G	723	130.2083	633	137.4042	709	146.562	642	165.20401.R	650	180.930	691
101.6203.G	718	101.6432	723	130.2083/N	633	137.4043	709	146.562/N	642	165.20411.N	651	180.931	691
101.6204	720	101.6432.01	723	130.2084	633	137.4111	709	146.563	642	165.20411.R	651	180.940	691
101.6301K	719	101.6432.01G	723	130.2084/N	633	137.4403	709	146.563/N	642	165.20421.R	652	190.100	677
101.6301K.G	719	101.6432.10	723	130.2085	633	137.4404	709	146.570	642	165.20431.N	652	190.147B	676
101.6302	719	101.6432.10G	723	130.2085/N	633	137.4405	709	146.570/N	642	165.20431.ND	652	190.2000FCG	676
101.6302.20G	719	101.6432.G	723	130.83	633	137.4407	709	146.641	640	165.20431.R	652	190.2000FCGB	676
101.6302.G	719	101.6433	723	130.83/N	633	137.4411	709	146.641/N	640	165.20431.RD	652	190.2000FCNB	676
101.6303	719	101.6433.G	723	136.001	717	137.4417	709	146.651	640	165.20441.N	652	190.2000FCNB	676
101.6303.20	719	101.6434	723	136.4121	713	137.4421	709	146.651/N	640	165.20441.R	652	190.2000FG	675
101.6303.20G	719	101.6434.G	723	136.4122	713	137.4424	709	146.661	640	165.20441.N	650	190.2000FGB	675
101.6303.G	719	101.6461.64	724	136.4123	713	137.4426	709	146.661/N	640	165.30401.R	650	190.2000FN	675
101.6304	719	101.6461.64G	724	136.4123-411	715	137.4427	709	160.219/C	656	165.30411.N	651	190.2000FNB	675
101.6304.20G	719	101.6462.64	724	136.4123-413	715	137.4481.60	709	160.219/C-N	656	165.30411.R	651	190.2000LG	675
101.6304.G	719	101.6462.64G	724	136.4123-414	715	137.5011	706	160.220	658	165.30421.R	652	190.2000LGB	675
101.6311	719	101.6464	724	136.4124	713	137.5012	706	160.220/C	656	165.40411.N	651	190.2000LN	675
101.6311.G	719	101.6464.G	724	136.4126	713	137.5021	706	160.220/C-N	656	165.40411.R	651	190.2000LNB	675
101.6323	719	101.6481	724	136.5023	716	137.5022	706	160.220/N	658	168.0072B-03	663	190.31	676
101.6323.G	719	101.6481.60	724	136.5023.AT	716	137.5111	706	160.223	658	168.0072N-03	663	190.31B	676
101.63312	720	101.6481.60G	724	136.5121	714	137.5112	706	160.223/C	656	168.0073B-03	663	190.3570ES	674
101.63312.G	720	101.6481.61	724	136.5121-302	715	137.5211	706	160.223/C-N	656	168.0073B-05	663	190.3570S	674
101.6331T	720	101.6481.61G	724	136.5121-303	715	137.5212	706	160.223/N	658	168.0073N-03	663	190.3585ES	674
101.6331T.G	720	101.6481.G	724	136.5121-304	715	137.5221	706	160.224	658	168.0073N-05	663	190.3585S	674
101.6332	720	101.6482	724	136.5121-323	715	137.5222	706	160.224/C	656	168.4272B-03	663	190.363B	679
101.6332.G	720	101.6482.G	724	136.5121-333	715	137.5311B	706	160.224/C-N	656	168.4272N-03	663	190.363N	679
101.6333	720	101.6501	724	136.5121-417	715	137.5311P	706	160.224/N	658	168.4273B-03	663	190.376B	679
101.6333.G	720	101.6501.12	724	136.5122	714	137.5321	706	160.225	658	168.4273B-05	663	190.376N	679
101.6334	720	101.6501.12G	724	136.5122-303	715	137.5321	706	160.225/C	656	168.4273N-03	663	190.5740B1	677
101.6334.G	720	101.6501.G	724	136.5122-323	715	137.5462	706	160.225/C-N	656	168.4273N-05	663	190.5778/311T	676
101.6340	720	101.6503	725	136.5122-407	715	137.6001	707	160.225/N	658	180.4521	695	190.5778/313T	676
101.6340.06	720	101.6503.12	725	136.5122-411	715	137.6002	707	160.229	660	180.4701	695	190.6000FCG	676
101.6340.06G	720	101.6503.12G	725	136.5122-413	715	137.6003	707	160.229/C	659	180.5510	694	190.6000FCGB	676
101.6340.10	720	101.6503.G	725	136.5122-414	715	137.6022	707	160.229/C-N	659	180.5511	694	190.6000FCN	676
101.6340.10G	720	101.6801.05	725	136.5122-427	715	137.6042	707	160.229/N	660	180.5520	693	190.6000FCNB	676
101.6340.G	720	101.6801.05G	725	136.5122-429	715	137.6043	707	160.230	660	180.5521	693	190.6000FG	675
101.6341	720	101.6802.05	725	136.5123	714	137.6111	707	160.230/C	659	180.561	697	190.6000FGB	675
101.6341.06	720	101.6802.05G	725	136.5123-303	715	137.6403	707	160.230/C-N	659	180.563	697	190.6000FN	675
101.6341.06G	720	101.6811.03	725	136.5123-323	715	137.6404	707	160.230/D	659	180.5640	695	190.6000FNB	675
101.6341.10	720	101.6811.03G	725	136.5123-407	715	137.6405	707	160.230/D-N	659	180.5641	695	190.6000LG	675
101.6341.10G	720	101.6812.03	725	136.5123-411	715	137.6407	707	160.230/N	660	180.572	686	190.6000LGB	675
101.6341.G	720	101.6812.03G	725	136.5123-413	715	137.6411	707	160.231	658	180.572	691	190.6000LN	675
101.6345	721	101.6850	725	136.5123-414	715	137.6417	707	160.231/C	656	180.573	691	190.6000LNB	675
101.6345.G	721	101.6850.G	725	136.5123-429	715	137.6421	707	160.231/C-N	656	180.58/CEI	696	190.6000PN	675
101.6401	721	104.4000	632	136.5124	714	137.6424	707	160.231/N	658	180.584	686	190.71	676
101.6401.G	721	104.4000/N	632	136.5124-303	716	137.6426	707	160.232/C	659	180.585	686	190.71B	676
101.6402	721	104.4001	632	136.5124-323	716	137.6427	707	160.233/C	659	180.5902	697	190.73B	676
101.6402.G	721	104.4001/N	632	136.5124-407	716	137.6481.60	707	160.241	658	180.5920/N	697	190.73N	676
101.6403	721	104.4003	632	136.5124-411	716	144.441	644	160.241/C	657	180.5912	697	190.74B	676
101.6403.G	721	104.4003/N	632	136.5124-413	716	144.441/N	644	160.241/C-N	657	180.5913	697	190.74N	676
101.6403.GD	722	104.4010	632	136.5126	714	144.450	644	160.241/N	658	180.5915	697	190.81	677
101.6403.R	721	104.4010/N	632	136.5126-303	716	144.450/N	644	160.247	658	180.60/CEI	696	190.8200	677
101.6404	721	104.4011	632	136.5126-323	716	144.451	644	160.247/C	657	180.60/CEI-P	696	190.8200T	677
101.6404.G	721	104.4011/N	632	136.5126-407	716	144.451/N	644	160.247/N	658	180.60/CEI-S	696	190.CP70A	674
101.6404.R	721	104.4013	632	136.5126-411	716	144.455	644	160.248	660	180.690	690	190.CP70B	674
101.6405	721	104.4013/N	632	136.5126-413	716	144.455/N	644	160.248/N	660	180.691	690	190.CP85A	674
101.6405.G	721	104.4068	632	137.001	712	144.457	644	160.251/C	659	180.692	428	190.CP85B	674
101.6405.GD	722	104.4068/N	632	137.002	712	144.457/N	644	160.251/C-N	659	180.692	690	190.31	676
101.6405.R	721	104.4070	632	137.101	710	144.459	644	160.252/C	659	180.701	688	191.5122	678
101.6407	721	104.4070/N	632	137.102	710	144.459/N	644	160.252/C-N	659	180.702	688	191.5124	678
101.6407.G	721	106.3000	630	137.103	710	144.470	644	160.260	658	180.705	688	195.115B	680
101.6407.GD	722	106.3000/N	630	137.104	710	144.470/N	644	160.260/C	657	180.706	688	195.200B	680
101.6407.R	721	106.3001	630	137.121	710	146.351	640	160.260/C-N	657	180.710	686	195.450B	680
101.6411	721	106.3001/N	630	137.122	710	146.351/N	640	160.260/N	658	180.711	687	195.450N	680
101.6411.G	721	106.3002	630	137.123	710	146.360	641	160.261	658	180.715	687	195.450P	680
101.6411.GD	722	106.3002/N	630	137.124	710	146.361	641	160.261/C	657	180.724	690	195.565B	681
101.6413	721	106.3003	630	137.125	711	146.361/N	641	160.261/C-N	657	180.725	690	195.565N	681
101.6413.G	721	106.3003/N	630	137.131	711	146.362	642	160.261/N	658	180.741	690	195.565P	681
101.6413.GD	722	106.3004	630	137.141	711	146.362/N	642	160.5013	661	180.742	690	213.1630	24
101.6414	721	106.3004/N	630	137.151	711	146.500	643	160.5014	661	180.743	690	213.1630P	24
101.6414.G	721	106.3010	631	137.200	712	146.501	643	160.5015	661	180.744	690	213.1631	24
101.6414.GD	722	106.3010/N	631	137.201	712	146.510	643	160.5016	661	180.790	687	213.1632	24
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213.16365	24	218.12534	27	218.3237.KX	31	235.16035	140	242.1697	44	245.12593T	59	245.63975T	59
213.16366	24	218.12535	27	218.3237.MIL	145	235.1604	140	242.16972	44	245.12594T	59	245.63976T	59
213.16367	24	218.12535.KX	31	218.32371	26	235.3200	140	242.16974	44	245.12595T	59	245.63977T	59
213.1636P	24	218.12536	27	218.32372	26	235.3201	140	242.16975	44	245.125961T	59	245.6397T	59
213.1636RV	29	218.12536.KX	31	218.32374	26	235.32010	140	242.16976	44	245.125962T	59	245.6398T	59
213.1637	24	218.12536.MIL	145	218.32375	26	235.32012	140	242.16977	44	245.125964T	59	247.1690	45
213.1637-7	160	218.125361	27	218.32376	26	235.32014	140	242.1698	44	245.125965T	59	247.1691	45
213.16371	24	218.125362	27	218.32377	26	235.32015	140	242.3290	44	245.125966T	59	247.1692	45
213.16372	24	218.125364	27	218.3237F	27	235.3202	140	242.3291	44	245.125967T	59	247.1693	45
213.16374	24	218.125365	27	218.3237RV	29	235.3203	140	242.3292	44	245.12596T	59	247.16932	45
213.16375	24	218.125366	27	218.3238	26	235.32030	140	242.3293	44	245.125971T	59	247.16933	45
213.16376	24	218.125367	27	218.3238F	27	235.32032	140	242.32932	44	245.125972T	59	247.16934	45
213.16377	24	218.12537	27	218.6330	27	235.32034	140	242.32933	44	245.125974T	59	247.16936	45
213.1637P	24	218.12537.KX	31	218.6331	27	235.32035	140	242.32934	44	245.125975T	59	247.16938	45
213.1637RV	29	218.12537.MIL	145	218.6332	27	235.3204	140	242.32936	44	245.125976T	59	247.1694	45
213.1638	24	218.125371	27	218.6333	27	240.1690	52	242.32938	44	245.125977T	59	247.1695	45
213.1638P	24	218.125372	27	218.6333.KX	31	240.1690-C	52	242.3294	44	245.12597T	59	247.1696	45
213.3230	24	218.125374	27	218.6333.MIL	145	240.1691	52	242.3295	44	245.12598T	59	247.16961	45
213.3230F	25	218.125375	27	218.63331	27	240.1692	52	242.3296	44	245.1690	53	247.16962	45
213.3231	24	218.125376	27	218.63332	27	240.1693	52	242.32961	44	245.1691	53	247.16964	45
213.3232	24	218.125377	27	218.63333	27	240.1693-C	52	242.32962	44	245.1692	53	247.16965	45
213.3233	24	218.12538	27	218.63334	27	240.1694	52	242.32964	44	245.1693	53	247.16966	45
213.32331	24	218.1630	26	218.63336	27	240.1695	52	242.32965	44	245.16931	53	247.16967	45
213.32332	24	218.1630P	26	218.63338	27	240.1696	52	242.32966	44	245.16932	53	247.1697	45
213.32333	24	218.1631	26	218.6334	27	240.1696-C	52	242.32967	44	245.16933	53	247.16972	45
213.32334	24	218.1632	26	218.6335	27	240.16964	52	242.3297	44	245.16934	53	247.16974	45
213.32336	24	218.1633	26	218.6335.KX	31	240.16965	52	242.32972	44	245.16936	53	247.16975	45
213.32338	24	218.1633.KX	31	218.6336	27	240.1696RV	55	242.32974	44	245.16938	53	247.16976	45
213.3233F	25	218.1633.MIL	145	218.6336.KX	31	240.1697	52	242.32975	44	245.1694	53	247.16977	45
213.3234	24	218.16331	26	218.6336.MIL	145	240.1697-7	160	242.32976	44	245.1695	53	247.1698	45
213.3234F	25	218.16332	26	218.63361	27	240.1697-C	52	242.32977	44	245.1696	53	247.3290	45
213.3235	24	218.16333	26	218.63362	27	240.16974	52	242.32978	44	245.16961	53	247.3291	45
213.3236	24	218.16334	26	218.63364	27	240.16975	52	243.1690	39	245.16962	53	247.3292	45
213.32361	24	218.16336	26	218.63365	27	240.1697RV	55	243.1691	39	245.16964	53	247.3293	45
213.32362	24	218.16338	26	218.63365.KX	31	240.1698	52	243.1692	39	245.16965	53	247.32932	45
213.32364	24	218.1633P	26	218.63366	27	240.3290	52	243.1693	39	245.16966	53	247.32933	45
213.32365	24	218.1634	26	218.63367	27	240.3290-C	52	243.1694	39	245.16967	53	247.32934	45
213.32366	24	218.1634.KX	31	218.6337	27	240.3291	52	243.1695	39	245.1696RV	55	247.32936	45
213.32367	24	218.1634P	26	218.6337.KX	31	240.3292	52	243.1696	39	245.1697	53	247.32938	45
213.3236F	25	218.1635	26	218.6337.MIL	145	240.3293	52	243.16964	39	245.1697-7	162	247.3294	45
213.3236RV	29	218.1635.KX	31	218.63371	27	240.3293-C	52	243.16965	39	245.16971	53	247.3295	45
213.3237	24	218.1636	26	218.63372	27	240.3294	52	243.1696RV	43	245.16972	53	247.3296	45
213.3237-7	160	218.1636.KX	31	218.63374	27	240.3295	52	243.1697	39	245.16974	53	247.32961	45
213.32371	24	218.1636.MIL	145	218.63375	27	240.3296	52	243.1697-7	160	245.16975	53	247.32962	45
213.32372	24	218.16361	26	218.63376	27	240.3296-C	52	243.16974	39	245.16976	53	247.32964	45
213.32374	24	218.16362	26	218.63377	27	240.32964	52	243.16975	39	245.16977	53	247.32965	45
213.32375	24	218.16363	26	218.6338	27	240.32965	52	243.1697RV	43	245.16977RV	55	247.32966	45
213.32376	24	218.16364	26	221.1630	32	240.3296RV	55	243.1698	39	245.1698	53	247.32967	45
213.32377	24	218.16365	26	221.1633	32	240.3297	52	243.3290	39	245.3290	53	247.3297	45
213.3237F	25	218.16366	26	221.1636	32	240.3297-7	160	243.3291	39	245.3291	53	247.32972	45
213.3237RV	29	218.16367	26	221.1637	32	240.3297-C	52	243.3292	39	245.3292	53	247.32974	45
213.3238	24	218.1636P	26	221.3230	32	240.32974	52	243.3293	39	245.3293	53	247.32975	45
213.3238F	25	218.1636RV	29	221.3233	32	240.32975	52	243.3294	39	245.32931	53	247.32976	45
213.6330	25	218.1637	26	221.3236	32	240.3297RV	55	243.3295	39	245.32932	53	247.32977	45
213.6331	25	218.1637-7	162	221.3237	32	240.3298	52	243.3296	39	245.32933	53	247.3298	45
213.6332	25	218.1637.KX	31	226.1630	32	240.6390T	58	243.32964	39	245.32934	53	248.12590	41
213.6333	25	218.1637.MIL	145	226.1633	32	240.6391T	58	243.32965	39	245.32936	53	248.12591	41
213.63331	25	218.16371	26	226.1636	32	240.6392T	58	243.3296RV	43	245.32938	53	248.12592	41
213.63332	25	218.16372	26	226.1637	32	240.63931T	58	243.3297	39	245.3294	53	248.12593	41
213.63333	25	218.16374	26	226.3230	32	240.63932T	58	243.3297-7	160	245.3295	53	248.12593.MIL	146
213.63334	25	218.16375	26	226.3233	32	240.63933T	58	243.32974	39	245.3296	53	248.125931	41
213.63336	25	218.16376	26	226.3236	32	240.63934T	58	243.32975	39	245.32961	53	248.125932	41
213.63338	25	218.16377	26	226.3237	32	240.63936T	58	243.3297RV	43	245.32962	53	248.125933	41
213.6334	25	218.1637P	26	230.1600	140	240.63938T	58	243.3298	39	245.32964	53	248.125934	41
213.6335	25	218.1637RV	29	230.1601	140	240.6393T	58	243.6390	39	245.32965	53	248.125936	41
213.6336	25	218.1638	26	230.16010	140	240.6394T	58	243.6391	39	245.32966	53	248.125938	41
213.63361	25	218.1638P	26	230.16012	140	240.6395T	58	243.6392	39	245.32967	53	248.12594	41
213.63362	25	218.3230	26	230.16014	140	240.63961T	58	243.6393	39	245.3296RV	55	248.12595	41
213.63364	25	218.3230F	27	230.16015	140	240.63962T	58	243.63931	39	245.3297	53	248.12596	41
213.63365	25	218.3231	26	230.1602	140	240.63964T	58	243.63932	39	245.3297-7	162	248.12596.MIL	146
213.63366	25	218.3232	26	230.1603	140	240.63965T	58	243.63933	39	245.32971	53	248.125961	41
213.63367	25	218.3233	26	230.16030	140	240.63966T	58	243.63934	39	245.32972	53	248.125962	41
213.6337	25	218.3233.KX	31	230.16032	140	240.63967T	58	243.63936	39	245.32974	53	248.125964	41
213.63371	25	218.3233.MIL	145	230.16034	140	240.6396T	58	243.63938	39	245.32975	53	248.125965	41
213.63372	25	218.32331	26	230.16035	140	240.63971T	58	243.6394	39	245.32976	53	248.125966	41
213.63374	25	218.32332	26	230.1604	140	240.63972T	58	243.6395	39	245.32977	53	248.125967	41
213.63375	25	218.32333	26	230.3200	140	240.63974T	58	243.6396	39	245.3297RV	55	248.12597	41
213.63376	25	218.32334	26	230.3201	140	240.63975T	58	243.63961	39	245.3298	53	248.12597.MIL	146
213.63377	25	218.32336	26	230.32010	140	240.63976T	58	243.63962	39	245.6390T	59	248.125971	41
213.6338	25	218.32338	26	230.32012	140	240.63977T	58	243.63964	39	245.6391T	59	248.125972	41

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248.16961	40	313.16431	66	314.3243	75	318.3246	68	335.1605	141	401.1687	194	402.32874-F	240
248.16962	40	313.16432	66	314.3246	75	318.3246.KX	73	335.1606	141	401.16872	194	402.32875	238
248.16964	40	313.16433	66	314.3247	75	318.3246.MIL	146	335.16060	141	401.16874	194	402.32875-F	240
248.16965	40	313.16434	66	318.12540	69	318.32461	68	335.16062	141	401.16875	194	402.32876	238
248.16966	40	313.16436	66	318.12541	69	318.32462	68	335.16064	141	401.16876	194	402.32876-F	240
248.16967	40	313.16438	66	318.12542	69	318.32464	68	335.16065	141	401.16877	194	402.32877	238
248.1696RV	43	313.1643H	70	318.12543	69	318.32464.KX	73	335.1607	141	401.3270	194	402.32877-F	240
248.1697	40	313.1643P	66	318.12543.KX	73	318.32464F	69	335.1608	141	401.3272	194	402.32878	238
248.1697-7	162	313.1644	66	318.12543.MIL	146	318.32465	68	335.16080	141	401.3274	194	402.6370-F	240
248.1697.MIL	146	313.1644H	70	318.125431	69	318.32466	68	335.16082	141	401.3275	194	402.6372	238
248.16971	40	313.1644P	66	318.125432	69	318.32467	68	335.16084	141	401.3278	194	402.6372-F	240
248.16972	40	313.1645	66	318.125433	69	318.3246F	69	335.16085	141	401.3279	194	402.6374	238
248.16974	40	313.1646	66	318.125434	69	318.3247	68	335.1609	141	401.3283	194	402.6374-F	240
248.16975	40	313.16461	66	318.125436	69	318.3247-7	163	335.3205	141	401.3286	194	402.6375	238
248.16976	40	313.16462	66	318.125438	69	318.3247.KX	73	335.3206	141	401.3287	194	402.6375-F	240
248.16977	40	313.16464	66	318.12544	69	318.3247.MIL	146	335.32060	141	402.1670	238	402.6378	238
248.1697RV	43	313.16465	66	318.12545	69	318.32471	68	335.32062	141	402.1670-F	240	402.6378-F	240
248.1698	40	313.16466	66	318.12546	69	318.32472	68	335.32064	141	402.1672	238	402.6379	238
248.3290	40	313.16467	66	318.12546.KX	73	318.32474	68	335.32065	141	402.1672-F	240	402.6379-F	240
248.3291	40	313.1646H	70	318.12546.MIL	146	318.32475	68	335.3207	141	402.1674	238	402.6383	238
248.3292	40	313.1646P	66	318.125461	69	318.32476	68	335.3208	141	402.1674-F	240	402.6383-F	240
248.3293	40	313.1647	66	318.125462	69	318.32477	68	335.32080	141	402.1675	238	402.63832	238
248.3293.MIL	146	313.1647-7	161	318.125464	69	318.3247F	69	335.32082	141	402.1675-F	240	402.63832-F	240
248.32931	40	313.16471	66	318.125465	69	318.3248	68	335.32084	141	402.1678	238	402.63833	238
248.32932	40	313.16472	66	318.125466	69	318.3248F	69	335.32085	141	402.1678-F	240	402.63833-F	240
248.32933	40	313.16474	66	318.125467	69	318.6340	69	335.3209	141	402.1679	238	402.63834-F	240
248.32934	40	313.16475	66	318.12547	69	318.6341	69	400.1670	190	402.1679-F	240	402.63836	238
248.32936	40	313.16476	66	318.12547.KX	73	318.6342	69	400.1672	190	402.1683	238	402.63836-F	240
248.32938	40	313.16477	66	318.12547.MIL	146	318.6343	69	400.1674	190	402.1683-F	240	402.6386	238
248.3294	40	313.1647H	70	318.125471	69	318.6343.KX	73	400.1675	190	402.16832	238	402.6386-F	240
248.3295	40	313.1647P	66	318.125472	69	318.6343.MIL	146	400.1678	190	402.16832-F	240	402.63861	238
248.3296	40	313.1648	66	318.125474	69	318.63431	69	400.1679	190	402.16833	238	402.63861-F	240
248.3296.MIL	146	313.1648H	70	318.125475	69	318.63432	69	400.1683	190	402.16833-F	240	402.63862	238
248.32961	40	313.1648P	66	318.125476	69	318.63433	69	400.16832	190	402.16836	238	402.63862-F	240
248.32962	40	313.3240	66	318.125477	69	318.63434	69	400.16833	190	402.16836-F	240	402.63864	238
248.32964	40	313.3240F	67	318.12548	69	318.63436	69	400.16834	190	402.1686	238	402.63864-F	240
248.32965	40	313.3241	66	318.12640	68	318.63438	69	400.16836	190	402.1686-F	240	402.63865	238
248.32966	40	313.3242	66	318.1640H	71	318.6344	69	400.16838	190	402.16861	238	402.63865-F	240
248.32967	40	313.3243	66	318.1640P	68	318.6345	69	400.1686	190	402.16861-F	240	402.63866	238
248.3296RV	43	313.32431	66	318.1641	68	318.6346	69	400.16861	190	402.16862	238	402.63866-F	240
248.3297	40	313.32432	66	318.1642	68	318.6346.KX	73	400.16862	190	402.16862-F	240	402.63867	238
248.3297-7	162	313.32433	66	318.1643	68	318.6346.MIL	146	400.16864	190	402.16864	238	402.63867-F	240
248.3297.MIL	146	313.32434	66	318.1643.KX	73	318.63461	69	400.16865	190	402.16864-F	240	402.6387	238
248.32971	40	313.32436	66	318.1643.MIL	146	318.63462	69	400.16866	190	402.16865	238	402.6387-F	240
248.32972	40	313.32438	66	318.16431	68	318.63464	69	400.16867	190	402.16865-F	240	402.63872	238
248.32974	40	313.3243F	67	318.16432	68	318.63465	69	400.1687	190	402.16866	238	402.63872-F	240
248.32975	40	313.3244	66	318.16433	68	318.63466	69	400.16872	190	402.16866-F	240	402.63874	238
248.32976	40	313.3244F	67	318.16434	68	318.63467	69	400.16874	190	402.16867	238	402.63874-F	240
248.32977	40	313.3245	66	318.16436	68	318.6347	69	400.16875	190	402.16867-F	240	402.63875	238
248.3297RV	43	313.3246	66	318.16438	68	318.6347.KX	73	400.16876	190	402.1687	238	402.63875-F	240
248.3298	40	313.32461	66	318.1643H	71	318.6347.MIL	146	400.16877	190	402.1687-F	240	402.63876	238
248.6390	41	313.32462	66	318.1643P	68	318.63471	69	400.2416	198	402.16872	238	402.63876-F	240
248.6391	41	313.32464	66	318.1644	68	318.63472	69	400.2420	198	402.16872-F	240	402.63877	238
248.6392	41	313.32465	66	318.1644H	71	318.63474	69	400.2421	198	402.16874	238	402.63877-F	240
248.6393	41	313.32466	66	318.1644P	68	318.63475	69	400.2420	198	402.16874-F	240	403.1670	239
248.6393.MIL	146	313.32467	66	318.16445	68	318.63476	69	400.2421	198	402.16875	238	403.1670-F	241
248.63931	41	313.3246F	67	318.1646	68	318.63477	69	400.3270	190	402.16875-F	240	403.1670-M	242
248.63932	41	313.3247	66	318.1646.KX	73	318.6348	69	400.3272	190	402.16876	238	403.1672	239
248.63933	41	313.3247-7	161	318.1646.MIL	146	321.1640	74	400.3274	190	402.16876-F	240	403.1672-F	241
248.63934	41	313.32471	66	318.16461	68	321.1643	74	400.3275	190	402.16877	238	403.1672-M	242
248.63936	41	313.32472	66	318.16462	68	321.1646	74	400.3278	190	402.16877-F	240	403.1674	239
248.63938	41	313.32474	66	318.16463	68	321.1647	74	400.3279	190	402.3270	238	403.1674-F	241
248.6394	41	313.32475	66	318.16464	68	321.3240	74	400.3283	190	402.3270-F	240	403.1674-M	242
248.6395	41	313.32476	66	318.16465	68	321.3243	74	400.32832	190	402.3272	238	403.1675	239
248.6396	41	313.32477	66	318.16466	68	321.3246	74	400.32833	190	402.3272-F	240	403.1675-F	241
248.6396.MIL	146	313.3247F	67	318.16467	68	321.3247	74	400.32834	190	402.3274	238	403.1675-M	242
248.63961	41	313.3248	66	318.1646H	71	326.1640	74	400.32836	190	402.3274-F	240	403.1678	239
248.63962	41	313.3248F	67	318.1646P	68	326.1643	74	400.32838	190	402.3275	238	403.1678-F	241
248.63964	41	313.6340	67	318.1647	68	326.1646	74	400.3286	190	402.3275-F	240	403.1678-M	242
248.63965	41	313.6341	67	318.1647-7	163	326.1647	74	400.32861	190	402.3278	238	403.1679	239
248.63966	41	313.6342	67	318.1647.KX	73	326.3240	74	400.32862	190	402.3278-F	240	403.1679-F	241
248.63967	41	313.6343	67	318.1647.MIL	146	326.3243	74	400.32864	190	402.3279	238	403.1679-M	242
248.6397	41	313.63431	67	318.16471	68	326.3246	74	400.32865	190	402.3279-F	240	403.1683	239
248.6397.MIL	146	313.63432	67	318.16472	68	326.3247	74	400.32866	190	402.3283	238	403.1683-F	241
248.63971	41	313.63433	67	318.16474	68	330.1605	140	400.32867	190	402.3283-F	240	403.1683-M	242
248.63972	41	313.63434	67	318.16475	68	330.1606	140	400.3287	190	402.32832	238	403.16832	239
248.63974	41	313.63436	67	318.16476	68	330.16060	140	400.32872	190	402.32832-F	240	403.16832-F	241
248.63975	41	313.63438	67	318.16477	68	330.16062	140	400.32874	190	402.32833	238	403.16833	239
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403.16872	239	403.63833-F	241	405.3279	191	407.2621	178	409.0403	201	413.3264	90	418.16667	84
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403.2416	244	403.63864-M	242	405.32866	191	407.32838	174	409.1403	202	413.3267-7	161	418.1667H	91
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403.2620	244	403.63865-M	242	405.32872	191	407.32862	174	409.1407	202	413.32674	82	418.1668H	91
403.2621	244	403.63866	239	405.32874	191	407.32864	174	409.1411	202	413.32675	82	418.3260	84
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403.3275-M	242	403.63875	239	405.63836	191	407.6374	174	409.2411	202	413.63633	83	418.3264F	90
403.3278	239	403.63875-F	241	405.6386	191	407.6375	174	409.2413	202	413.63634	83	418.3265	84
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403.32832	239	403.AMR1686	266	406.1672	195	407.63861	174	409.3405	203	413.63665	83	418.3267	84
403.32832-F	241	403.AMR1686-F	267	406.1674	195	407.63862	174	409.3407	203	413.63666	83	418.3267-7	163
403.32833	239	403.AMR1686-M	267	406.1675	195	407.63864	174	409.3411	203	413.63667	83	418.32671	84
403.32833-F	241	403.AMR1687	266	406.1678	195	407.63865	174	409.3413	203	413.6367	83	418.32672	84
403.32836	239	403.AMR1687-F	267	406.1679	195	407.63866	174	409.3417	203	413.63671	83	418.32674	84
403.32836-F	241	403.AMR1687-M	267	406.1683	195	407.63867	174	409.3421	203	413.63672	83	418.32675	84
403.3286	239	403.AMR3283	266	406.16832	195	407.6387	174	409.3424	203	413.63674	83	418.32676	84
403.3286-F	241	403.AMR3283-F	267	406.16833	195	407.63872	174	409.3427	203	413.63675	83	418.32677	84
403.3286-M	242	403.AMR3283-M	267	406.16834	195	407.63874	174	409.3428	203	413.63676	83	418.3267F	90
403.32861	239	403.AMR3286	266	406.16836	195	407.63875	174	409.3429	203	413.63677	83	418.3268	84
403.32861-F	241	403.AMR3286-F	267	406.16838	195	407.63876	174	413.1660	82	413.6368	83	418.3268F	90
403.32862	239	403.AMR3286-M	267	406.1686	195	407.63877	174	413.1660F	90	418.12560	85	418.6360	85
403.32862-F	241	403.AMR32864	266	406.16861	195	408.1670	176	413.1660H	91	418.12561	85	418.6361	85
403.32864	239	403.AMR32864-F	267	406.16862	195	408.1672	176	413.1661	82	418.12562	85	418.6362	85
403.32864-F	241	403.AMR32864-M	267	406.16864	195	408.1674	176	413.1662	82	418.12563	85	418.6363	85
403.32864-M	242	403.AMR3287	266	406.16865	195	408.1675	176	413.1663	82	418.125631	85	418.63631	85
403.32865	239	403.AMR3287-F	267	406.16866	195	408.1678	176	413.16631	82	418.125632	85	418.63632	85
403.32865-F	241	403.AMR3287-M	267	406.16867	195	408.1679	176	413.16632	82	418.125633	85	418.63633	85
403.32865-M	242	403.AMR6383	266	406.1687	195	408.1683	176	413.16633	82	418.125634	85	418.63634	85
403.32866	239	403.AMR6383-F	267	406.16872	195	408.16832	176	413.16634	82	418.125636	85	418.63636	85
403.32866-F	241	403.AMR6383-M	267	406.16874	195	408.16833	176	413.16636	82	418.125638	85	418.63638	85
403.32867	239	403.AMR6386	266	406.16875	195	408.16834	176	413.16638	82	418.12564	85	418.6364	85
403.32867-F	241	403.AMR6386-F	267	406.16876	195	408.16836	176	413.1663H	90	418.12565	85	418.6365	85
403.3287	239	403.AMR6386-M	267	406.16877	195	408.16838	176	413.1663H	91	418.12566	85	418.6366	85
403.3287-F	241	403.AMR6387	266	406.3270	195	408.1686	176	413.1664	82	418.125661	85	418.63661	85
403.3287-M	242	403.AMR6387-F	267	406.3272	195	408.16861	176	413.1664F	90	418.125662	85	418.63662	85
403.32872	239	403.AMR6387-M	267	406.3274	195	408.16862	176	413.1664H	91	418.125664	85	418.63664	85
403.32872-F	241	405.1670	191	406.3275	195	408.16864	176	413.1665	82	418.125665	85	418.63665	85
403.32874	239	405.1672	191	406.3278	195	408.16865	176	413.1666	82	418.125666	85	418.63666	85
403.32874-F	241	405.1674	191	406.3279	195	408.16866	176	413.16661	82	418.125667	85	418.63667	85
403.32874-M	242	405.1675	191	406.3283	195	408.16867	176	413.16662	82	418.12567	85	418.6367	85
403.32875	239	405.1678	191	406.3286	195	408.1687	176	413.16664	82	418.125671	85	418.63671	85
403.32875-F	241	405.1679	191	406.3287	195	408.16872	176	413.16665	82	418.125672	85	418.63672	85
403.32875-M	242	405.1683	191	407.1670	174	408.16874	176	413.16666	82	418.125674	85	418.63674	85
403.32876	239	405.16832	191	407.1672	174	408.16875	176	413.16667	82	418.125675	85	418.63675	85
403.32876-F	241	405.16833	191	407.1674	174	408.16876	176	413.1666F	90	418.125676	85	418.63676	85
403.32877	239	405.16834	191	407.1675	174	408.16877	176	413.1666H	91	418.125677	85	418.63677	85
403.32877-F	241	405.16836	191	407.1678	174	408.3270	176	413.1667	82	418.12568	85	418.6368	85
403.6370	239	405.16838	191	407.1679	174	408.3272	176	413.1667-7	161	418.12568	85	423.1660	86
403.6370-F	241	405.1686	191	407.1									

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423.16666	86	428.1661/R	88	430.16160	141	452.1660	92	499.AMRSW-000	268	503.12586-M	243	506.16832	197
423.16667	86	428.1662	88	430.16160/R	141	452.1661	92	500.1670	192	503.12586-RM	244	506.16833	197
423.1667	86	428.1663	88	430.16162	141	452.1662	92	500.1672	192	503.12586-T	244	506.16834	197
423.16671	86	428.1663.MIL	147	430.16162/R	141	452.1663	92	500.1674	192	503.125865	243	506.16836	197
423.16672	86	428.1663/R	88	430.16164	141	452.16632	92	500.1675	192	503.125867	243	506.16838	197
423.16674	86	428.1663/RR	88	430.16164/R	141	452.16633	92	500.1678	192	503.12587	243	506.1686	197
423.16675	86	428.16631	88	430.16165	141	452.16634	92	500.1679	192	503.12587-F	243	506.16861	197
423.16676	86	428.16632	88	430.16165/R	141	452.16636	92	500.1683	192	503.12587-FS	243	506.16862	197
423.16677	86	428.16633	88	430.1617	141	452.16638	92	500.16832	192	503.12587-M	243	506.16864	197
423.1668	86	428.16634	88	430.1617/R	141	452.1664	92	500.16833	192	503.12587-RM	244	506.16865	197
423.1668/R	86	428.16636	88	430.1618	141	452.1665	92	500.16834	192	503.12587-T	244	506.16866	197
423.1668/RR	86	428.16638	88	430.1618/R	141	452.1666	92	500.16836	192	503.125874	243	506.16867	197
423.3260	86	428.1664	88	430.16180	141	452.16661	92	500.16838	192	503.AMR12583	268	506.1687	197
423.3261	86	428.1664/R	88	430.16180/R	141	452.16662	92	500.1686	192	503.AMR12583-F	268	506.16872	197
423.3262	86	428.1665	88	430.16182	141	452.16664	92	500.16861	192	503.AMR12583-M	268	506.16874	197
423.3263	86	428.1666	88	430.16182/R	141	452.16665	92	500.16862	192	503.AMR12586	268	506.16875	197
423.32631	86	428.1666.MIL	147	430.16184	141	452.16666	92	500.16864	192	503.AMR12586-F	268	506.16876	197
423.32632	86	428.1666/R	88	430.16184/R	141	452.16667	92	500.16865	192	503.AMR12586-M	268	506.16877	197
423.32633	86	428.16661	88	430.16185	141	452.16669	92	500.16866	192	503.AMR12587	268	506.3270	197
423.32634	86	428.16662	88	430.16185/R	141	452.16672	92	500.16867	192	503.AMR12587-F	268	506.3272	197
423.32636	86	428.16664	88	430.1619	141	452.16674	92	500.1687	192	503.AMR12587-M	268	506.3274	197
423.32638	86	428.16665	88	430.1619/R	141	452.16675	92	500.16872	192	505.1670	193	506.3275	197
423.3264	86	428.16666	88	430.3215	141	452.16676	92	500.16874	192	505.1672	193	506.3278	197
423.3265	86	428.16667	88	430.3215/R	141	452.16677	92	500.16875	192	505.1674	193	506.3279	197
423.3266	86	428.1667	88	430.3216	141	452.1668	92	500.16876	192	505.1675	193	506.3283	197
423.32661	86	428.1667.MIL	147	430.3216/R	141	452.3260	92	500.16877	192	505.1678	193	506.3286	197
423.32662	86	428.16671	88	430.32160	141	452.3261	92	500.2420	199	505.1679	193	506.3287	197
423.32664	86	428.16672	88	430.32160/R	141	452.3262	92	500.2421	199	505.1683	193	507.1670	175
423.32665	86	428.16674	88	430.32162	141	452.3263	92	500.2620	199	505.16832	193	507.1672	175
423.32666	86	428.16675	88	430.32162/R	141	452.32632	92	500.2621	199	505.16833	193	507.1674	175
423.32667	86	428.16676	88	430.32164	141	452.32633	92	500.3270	192	505.16834	193	507.1675	175
423.3267	86	428.16677	88	430.32164/R	141	452.32634	92	500.3272	192	505.16836	193	507.1678	175
423.32671	86	428.1668	88	430.32165	141	452.32636	92	500.3274	192	505.16838	193	507.1679	175
423.32672	86	428.1668/R	88	430.32165/R	141	452.32638	92	500.3275	192	505.1686	193	507.1683	175
423.32674	86	428.1668/RR	88	430.3217	141	452.3264	92	500.3278	192	505.16861	193	507.16832	175
423.32675	86	428.3260	88	430.3217/R	141	452.3265	92	500.3279	192	505.16862	193	507.16833	175
423.32676	86	428.3261	88	430.3218	141	452.3266	92	500.3283	192	505.16864	193	507.16834	175
423.32677	86	428.3262	88	430.3218/R	141	452.32661	92	500.32832	192	505.16865	193	507.16836	175
423.3268	86	428.3263	88	430.32180	141	452.32662	92	500.32833	192	505.16866	193	507.16838	175
423.6360	87	428.3263.MIL	147	430.32180/R	141	452.32664	92	500.32834	192	505.16867	193	507.1686	175
423.6361	87	428.32631	88	430.32182	141	452.32665	92	500.32836	192	505.1687	193	507.16861	175
423.6362	87	428.32632	88	430.32182/R	141	452.32666	92	500.32838	192	505.16872	193	507.16862	175
423.6363	87	428.32633	88	430.32184	141	452.32667	92	500.3286	192	505.16874	193	507.16864	175
423.63631	87	428.32634	88	430.32184/R	141	452.3267	92	500.32861	192	505.16875	193	507.16865	175
423.63632	87	428.32636	88	430.32185	141	452.32672	92	500.32862	192	505.16876	193	507.16866	175
423.63633	87	428.32638	88	430.32185/R	141	452.32674	92	500.32864	192	505.16877	193	507.16867	175
423.63634	87	428.3264	88	430.3219	141	452.32675	92	500.32865	192	505.2420	199	507.1687	175
423.63636	87	428.3265	88	430.3219/R	141	452.32676	92	500.32866	192	505.2421	199	507.16872	175
423.63638	87	428.3266	88	435.1615	142	452.32677	92	500.32867	192	505.2620	199	507.16874	175
423.6364	87	428.3266.MIL	147	435.1615/R	142	452.3268	92	500.3287	192	505.2621	199	507.16875	175
423.6365	87	428.32661	88	435.1616	142	457.1660	93	500.32872	192	505.3270	193	507.16876	175
423.6366	87	428.32662	88	435.1616/R	142	457.1661	93	500.32874	192	505.3272	193	507.16877	175
423.63661	87	428.32663	88	435.16160	142	457.1662	93	500.32875	192	505.3274	193	507.3270	175
423.63662	87	428.32664	88	435.16160/R	142	457.1663	93	500.32876	192	505.3275	193	507.3272	175
423.63664	87	428.32665	88	435.16162	142	457.16632	93	500.32877	192	505.3278	193	507.3274	175
423.63665	87	428.32666	88	435.16162/R	142	457.16633	93	501.1670	196	505.3279	193	507.3275	175
423.63666	87	428.32667	88	435.16164	142	457.16634	93	501.1672	196	505.3283	193	507.3278	175
423.63667	87	428.3267	88	435.16164/R	142	457.16636	93	501.1674	196	505.32832	193	507.3279	175
423.6367	87	428.3267.MIL	147	435.16165	142	457.16638	93	501.1675	196	505.32833	193	507.3283	175
423.63671	87	428.32671	88	435.16165/R	142	457.1664	93	501.1678	196	505.32834	193	507.32832	175
423.63672	87	428.32672	88	435.1617	142	457.1665	93	501.1679	196	505.32836	193	507.32833	175
423.63674	87	428.32674	88	435.1617/R	142	457.1666	93	501.1683	196	505.32838	193	507.32834	175
423.63675	87	428.32675	88	435.1618	142	457.16661	93	501.16832	196	505.3286	193	507.32836	175
423.63676	87	428.32676	88	435.1618/R	142	457.16662	93	501.16833	196	505.32861	193	507.32838	175
423.63677	87	428.32677	88	435.16180	142	457.16664	93	501.16834	196	505.32862	193	507.3286	175
423.6368	87	428.3268	88	435.16180/R	142	457.16665	93	501.16836	196	505.32864	193	507.32861	175
428.12560	89	428.6360	89	435.16182	142	457.16666	93	501.16838	196	505.32865	193	507.32862	175
428.12561	89	428.6361	89	435.16182/R	142	457.16667	93	501.1686	196	505.32866	193	507.32864	175
428.12562	89	428.6362	89	435.16184	142	457.1667	93	501.16861	196	505.32867	193	507.32865	175
428.12563	89	428.6363	89	435.16184/R	142	457.16672	93	501.16862	196	505.3287	193	507.32866	175
428.12563.MIL	147	428.6363.MIL	147	435.16185	142	457.16674	93	501.16864	196	505.32872	193	507.32867	175
428.125631	89	428.63631	89	435.16185/R	142	457.16675	93	501.16865	196	505.32874	193	507.3287	175
428.125632	89	428.63632	89	435.1619	142	457.16676	93	501.16866	196	505.32875	193	507.32872	175
428.125633	89	428.63633	89	435.1619/R	142	457.16677	93	501.16867	196	505.32876	193	507.32874	175
428.125634	89	428.63634	89	435.3215	142	457.1668	93	501.1687	196	505.32877	193	507.32875	175
428.125636	89	428.63636	89	435.3215/R	142	457.3260	93	501.16872	196	505.6370	193	507.32876	175
428.125638	89	428.63638	89	435.3216	142	457.3261	93	501.16874	196	505.6372	193	507.32877	175
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508.16877	177	513.1656-SN	111	513.3256T	104	518.12554T	107	518.6351T	107	530.1614	142	560.3275	214
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512.1654	98	513.1657-SN	111	513.3257TS	115	518.1653TH	108	522.1654	98	535.032112	143	561.16833	215
512.1655	98	513.16571T	104	513.3257TS.A	115	518.1653TS	115	522.1655	98	535.032114	143	561.16834	215
512.1656	98	513.16572T	104	513.3258T	104	518.1654T	106	522.1656	98	535.032115	143	561.16836	215
512.1657	98	513.16574T	104	513.3258TF	104	518.1654TF	106	522.1657	98	535.03212	143	561.16838	215
512.1657-7	161	513.16575T	104	513.6350T	105	518.1654TH	106	522.1658	98	535.03213	143	561.1686	215
512.1658	98	513.16576T	104	513.6351T	105	518.1655T	106	522.3250	98	535.032130	143	561.16861	215
512.3250	98	513.16577T	104	513.6352T	105	518.16561T	106	522.3251	98	535.032132	143	561.16862	215
512.3251	98	513.1657T	104	513.63531T	105	518.16562T	106	522.3252	98	535.032134	143	561.16864	215
512.3252	98	513.1657TF	104	513.63532T	105	518.16564T	106	522.3253	98	535.032135	143	561.16865	215
512.3253	98	513.1657TH	108	513.63533T	105	518.16565T	106	522.3254	98	535.03214	143	561.16866	215
512.3254	98	513.1657TS	115	513.63534T	105	518.16566T	106	522.3255	98	535.1610	143	561.16867	215
512.3255	98	513.1658T	104	513.63536T	105	518.16567T	106	522.3256	98	535.1611	143	561.1687	215
512.3256	98	513.1658TF	104	513.63538T	105	518.1656T	106	522.3257	98	535.16110	143	561.16872	215
512.3257	98	513.1658TH	108	513.6353T	105	518.1656TF	106	522.3258	98	535.16112	143	561.16874	215
512.3257-7	161	513.3250	101	513.6354T	105	518.1656TH	108	527.1650	99	535.16114	143	561.16875	215
512.3258	98	513.3250T	104	513.6355T	105	518.1656TS	115	527.1651	99	535.16115	143	561.16876	215
513.1650	101	513.3250TF	104	513.63561T	105	518.16571T	106	527.1652	99	535.1612	143	561.16877	215
513.1650T	104	513.3251T	104	513.63562T	105	518.16572T	106	527.1653	99	535.1613	143	561.3270	215
513.1650TF	104	513.3252T	104	513.63564T	105	518.16574T	106	527.1654	99	535.16130	143	561.3272	215
513.1650TH	108	513.3253	101	513.63565T	105	518.16575T	106	527.1655	99	535.16132	143	561.3274	215
513.1651T	104	513.3253-1DFS	117	513.63566T	105	518.16576T	106	527.1656	99	535.16134	143	561.3275	215
513.1652T	104	513.3253-1FFS	117	513.63567T	105	518.16577T	106	527.1657	99	535.16135	143	561.3278	215
513.1653	101	513.3253-2AFS	117	513.6356T	105	518.1657T	106	527.1658	99	535.1614	143	561.3279	215
513.1653-1DNS	117	513.3253-2DFS	117	513.63571T	105	518.1657TF	106	527.3250	99	535.3210	143	561.3283	215
513.1653-1FNS	117	513.3253-2FFS	117	513.63572T	105	518.1657TH	108	527.3251	99	535.3211	143	561.32832	215
513.1653-2AFS	117	513.3253-AF	111	513.63574T	105	518.1657TS	115	527.3252	99	535.32110	143	561.32833	215
513.1653-2DNS	117	513.3253-BF	111	513.63575T	105	518.1658T	106	527.3253	99	535.32112	143	561.32834	215
513.1653-2FNS	117	513.3253-CF	111	513.63576T	105	518.1658TF	106	527.3254	99	535.32114	143	561.32836	215
513.1653-AF	111	513.3253-DF	111	513.63577T	105	518.1658TH	108	527.3255	99	535.32115	143	561.32838	215
513.1653-BN	111	513.3253-FF	111	513.6357T	105	518.3250T	106	527.3256	99	535.3212	143	561.3286	215
513.1653-CF	111	513.3253-KF	111	513.6358T	105	518.3250TF	106	527.3257	99	535.3213	143	561.32861	215
513.1653-DN	111	513.3253-LF	111	514.1650	109	518.3251T	106	527.3258	99	535.32130	143	561.32862	215
513.1653-FN	111	513.3253-PF	111	514.1653	109	518.3252T	106	530.01610	143	535.32132	143	561.32864	215
513.1653-KN	111	513.32531T	104	514.1656	109	518.32531T	106	530.01611	143	535.32134	143	561.32865	215
513.1653-LN	111	513.32532T	104	514.1657	109	518.32532T	106	530.016110	143	535.32135	143	561.32866	215
513.1653-PN	111	513.32533T	104	514.3250	109	518.32533T	106	530.016112	143	535.3214	143	561.32867	215
513.1653-SN	111	513.32534T	104	514.3253	109	518.32534T	106	530.016114	143	548.12583	221	561.3287	215
513.16531T	104	513.32536T	104	514.3256	109	518.32536T	106	530.016115	143	548.12583-D	221	561.32872	215
513.16532T	104	513.32538T	104	514.3257	109	518.32538T	106	530.01612	143	548.12586	221	561.32874	215
513.16533T	104	513.3253T	104	517.1650	99	518.3253T	106	530.01613	143	548.12586-D	221	561.32875	215
513.16534T	104	513.3253TF	104	517.1651	99	518.3253TF	106	530.016130	143	548.12587	221	561.32876	215
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513.1653T	104	513.3254T	104	517.1654	99	518.3254T	106	530.016135	143	560.1672	214	561.6372	215

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562.16833	216	563.63834	217	568.3286	219	570.9063	132	590.DCGE0815	348	590.EM6304	318	590.F2EM8006	340
562.16834	216	563.6386	217	568.32861	219	570.9063	158	590.DCGE0820	348	590.EM6305	318	590.F2GE10003	339
562.16836	216	563.6387	217	568.32862	219	570.9125	132	590.DCGE0825	348	590.EM6305.SN	318	590.F2GE10005	339
562.16838	216	565.2420	223	568.32864	219	570.9125	158	590.DCGE0830	348	590.EM6306	318	590.F2GE10006	339
562.1686	216	565.2420/S	223	568.32865	219	570.M0125	133	590.DCGE0840	348	590.EM6308	318	590.F2GE12503	339
562.16861	216	565.2421	223	568.32866	219	570.M0163	133	590.EL10003	317	590.EM8002	318	590.F2GE12505	339
562.16862	216	565.2421/S	223	568.32867	219	572.0120	207	590.EL10005	317	590.EM8002.SN	318	590.F2GE12506	339
562.16864	216	565.2432	223	568.3287	219	572.0200	204	590.EL10005.SN	317	590.EM8003	318	590.F2GE16003	339
562.16865	216	565.2432/S	223	568.32872	219	572.0200	313	590.EL1606	315	590.EM8004	318	590.F2GE16005	339
562.16866	216	565.2433	223	568.32874	219	572.0205	204	590.EL1608	315	590.EM8005	318	590.F2GE16006	339
562.16867	216	565.2433/S	223	568.32875	219	572.0205	313	590.EL2012	315	590.EM8005.SN	318	590.F2GE1606	339
562.1687	216	565.2516	222	568.32876	219	572.0210	204	590.EL2012.SN	315	590.EM8006	318	590.F2GE20003	341
562.16872	216	565.2516/S	222	568.32877	219	572.0210	313	590.EL2013	315	590.EM8008	318	590.F2GE20005	341
562.16874	216	567.1670	218	568.6370	219	572.0220	204	590.EL2015	315	590.EMB10003	353	590.F2GE20006	341
562.16875	216	567.1672	218	568.6372	219	572.0220	313	590.EL2015.SN	315	590.EMB10005	353	590.F2GE2002	339
562.16876	216	567.1674	218	568.6374	219	572.0308	205	590.EL2022.SN	319	590.EMB12503	353	590.F2GE2003	339
562.16877	216	567.1675	218	568.6375	219	572.0309	205	590.EL2506	315	590.EMB12505	353	590.F2GE2005	339
562.3270	216	567.1678	218	568.6378	219	572.0310	205	590.EL2508	315	590.EMB16003	353	590.F2GE25003	341
562.3272	216	567.1679	218	568.6379	219	572.0310	313	590.EL3206	315	590.EMB16005	353	590.F2GE25005	341
562.3274	216	567.1683	218	568.6383	219	572.0311	206	590.EL3208	315	590.EMB6303	353	590.F2GE25006	341
562.3275	216	567.16832	218	568.63833	219	572.0312	207	590.EL3212	315	590.EMB6305	353	590.F2GE2506	339
562.3278	216	567.16833	218	568.63834	219	572.0313	206	590.EL3212.SN	315	590.EMB8003	353	590.F2GE31503	341
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562.3283	216	567.16836	218	568.63865	219	572.0315	207	590.EL3215	315	590.EMD10003	353	590.F2GE31506	341
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562.32834	216	567.16861	218	568.6387	219	572.0322	206	590.EL4006	315	590.EMD12505	353	590.F2GE3205	339
562.32836	216	567.16862	218	568.63875	219	572.0323	206	590.EL4008	315	590.EMD16003	353	590.F2GE3206	339
562.32838	216	567.16864	218	568.63876	219	572.3390	205	590.EL4012	315	590.EMD16005	353	590.F2GE40003	341
562.3286	216	567.16865	218	568.63877	219	572.3390	302	590.EL4012.SN	315	590.EMD6303	353	590.F2GE40005	341
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562.32862	216	567.16867	218	570.0032	133	573.5001	181	590.EL4015	315	590.EMD8003	353	590.F2GE4002	339
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563.1675	217	567.32832	218	570.2092	122	576.4300	225	590.EM10005	318	590.ER3202	312	590.F2GE8002	339
563.1678	217	567.32833	218	570.2093	122	576.4301	225	590.EM10005.SN	318	590.ER3203	312	590.F2GE8003	339
563.1679	217	567.32834	218	570.2561	122	576.4302	224	590.EM10006	318	590.ER3204	312	590.F2GE8005	339
563.1683	217	567.32836	218	570.2591	122	576.4303	224	590.EM10008	318	590.ER3205	312	590.F2GE8006	339
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563.16861	217	567.32866	218	570.4091	123	576.4325	225	590.EM16005	318	590.F2EM10006	340	590.FEM10006	343
563.16862	217	567.32867	218	570.4091-SW	123	576.4340	226	590.EM16005.SN	318	590.F2EM12503	340	590.FEM10006.U	345
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590.FEM4005.U	345	590.FGE6302.U	344	590.GE8006	316	590.HEM2003.W	329	590.HGE12503.W	328	590.HGE8005	326	590.KEMB20003	357
590.FEM4006	343	590.FGE6303	342	590.GE8008	316	590.HEM2004	325	590.HGE12505	326	590.HGE8005-C	363	590.KEMB20005	357
590.FEM4006.U	345	590.FGE6303.U	344	590.GEB10003	352	590.HEM2005	325	590.HGE12505-C	363	590.HGE8005.SN	326	590.KEMB25003	357
590.FEM63003	346	590.FGE6305	342	590.GEB10005	352	590.HEM2005.SN	325	590.HGE12505.SN	326	590.HGE8005.W	328	590.KEMB25005	357
590.FEM63003.U	347	590.FGE6305.U	344	590.GEB12503	352	590.HEM2005.W	329	590.HGE12505.W	328	590.HGE8005.WSN	328	590.KEMB31503	357
590.FEM63005	346	590.FGE6306	342	590.GEB12505	352	590.HEM2005.WSN	329	590.HGE12505.WSN	328	590.HGE8006	326	590.KEMB31505	357
590.FEM63005.U	347	590.FGE6306.U	344	590.GEB16003	352	590.HEM2506	325	590.HGE12506	326	590.HGE8006.W	328	590.KEMB40003	357
590.FEM63006	346	590.FGE8002	342	590.GEB16005	352	590.HEM2506.W	329	590.HGE12508	326	590.HGE8008	326	590.KEMB40005	357
590.FEM63006.U	347	590.FGE8002.U	344	590.GEB6303	352	590.HEM2508	325	590.HGE16003	326	590.HGE8008.W	328	590.KEMB63003	357
590.FEM6302	343	590.FGE8003	342	590.GEB6305	352	590.HEM2508.W	329	590.HGE16003-C	363	590.HGEB6303	354	590.KEMB63005	357
590.FEM6302.U	345	590.FGE8003.U	344	590.GEB8003	352	590.HEM3202	325	590.HGE16003.W	328	590.HGEB6305	354	590.KEMD10003	357
590.FEM6303	343	590.FGE8005	342	590.GEB8005	352	590.HEM3202.SN	325	590.HGE16005	326	590.HGEB8003	354	590.KEMD10005	357
590.FEM6303.U	345	590.FGE8005.U	344	590.GED10003	352	590.HEM3202.W	329	590.HGE16005-C	363	590.HGEB8005	354	590.KEMD12503	357
590.FEM6305	343	590.FGE8006	342	590.GED10005	352	590.HEM3202.WSN	329	590.HGE16005.SN	326	590.HGED6303	354	590.KEMD12505	357
590.FEM6305.U	345	590.FGE8006.U	344	590.GED12503	352	590.HEM3203	325	590.HGE16005.W	328	590.HGED6305	354	590.KEMD16003	357
590.FEM6306	343	590.GE10003	316	590.GED12505	352	590.HEM3203.W	329	590.HGE16005.WSN	328	590.HGED8003	354	590.KEMD16005	357
590.FEM6306.U	345	590.GE10003-C	362	590.GED16003	352	590.HEM3204	325	590.HGE16006	324	590.HGED8005	354	590.KEMD20003	357
590.FEM8002	343	590.GE10005	316	590.GED16005	352	590.HEM3205	325	590.HGE1608	326	590.HGEF1602	354	590.KEMD20005	357
590.FEM8002.U	345	590.GE10005-C	362	590.GED6303	352	590.HEM3205.SN	325	590.HGE1603-C	363	590.HGEF1603	354	590.KEMD25003	357
590.FEM8003	343	590.GE10005.SN	316	590.GED6305	352	590.HEM3205.W	329	590.HGE1605-C	363	590.HGEF1604	354	590.KEMD25005	357
590.FEM8003.U	345	590.GE10006	316	590.GED8003	352	590.HEM3205.WSN	329	590.HGE1606	324	590.HGEF1605	354	590.KEMD31503	357
590.FEM8005	343	590.GE10008	316	590.GED8005	352	590.HEM3206	325	590.HGE1606.W	328	590.HGEF3202	354	590.KEMD31505	357
590.FEM8005.U	345	590.GE12503	316	590.GEF1602	352	590.HEM3206.W	329	590.HGE1608	324	590.HGEF3203	354	590.KEMD40003	357
590.FEM8006	343	590.GE12503-C	362	590.GEF1603	352	590.HEM3208	325	590.HGE1608.W	328	590.HGEF3204	354	590.KEMD40005	357
590.FEM8006.U	345	590.GE12505	316	590.GEF1604	352	590.HEM3208.W	329	590.HGE2002	324	590.HGEF3205	354	590.KEMD63003	357
590.FGE10002	342	590.GE12505-C	362	590.GEF1605	352	590.HEM4002	325	590.HGE2002.SN	324	590.JEM2002	321	590.KEMD63005	357
590.FGE10002.U	344	590.GE12505.SN	316	590.GEF3202	352	590.HEM4002.SN	325	590.HGE2002.W	328	590.JEM2003	321	590.KEM610003	335
590.FGE10003	342	590.GE12506	316	590.GEF3203	352	590.HEM4002.W	329	590.HGE2002.WSN	328	590.JEM2005	321	590.KGE100003B	336
590.FGE10003.U	344	590.GE12508	316	590.GEF3204	352	590.HEM4002.WSN	329	590.HGE2003	324	590.JEM3202	321	590.KGE100005	335
590.FGE10005	342	590.GE16003	316	590.GEF3205	352	590.HEM4003	325	590.HGE2003.W	328	590.JEM3203	321	590.KGE100005.SN	335
590.FGE10005.U	344	590.GE16003-C	362	590.GR2002	312	590.HEM4003.W	329	590.HGE2004	324	590.JEM3205	321	590.KGE100005B	336
590.FGE10006	342	590.GE16005	316	590.GR2003	312	590.HEM4004	325	590.HGE2005	324	590.JEM4002	321	590.KGE100005BSN	336
590.FGE10006.U	344	590.GE16005-C	362	590.GR2004	312	590.HEM4005	325	590.HGE2005.SN	324	590.JEM4003	321	590.KGE10003-C	365
590.FGE12503	342	590.GE16005.SN	316	590.GR2005	312	590.HEM4005.SN	325	590.HGE2005.W	328	590.JEM4005	321	590.KGE10005-C	365
590.FGE12503.U	344	590.GE16006	316	590.GR3202	312	590.HEM4005.W	329	590.HGE2005.WSN	328	590.JGE2002	321	590.KGE10006	335
590.FGE12505	342	590.GE16008	316	590.GR3203	312	590.HEM4005.WSN	329	590.HGE2503-C	363	590.JGE2003	321	590.KGE10008	335
590.FGE12505.U	344	590.GE16013	316	590.GR3204	312	590.HEM4006	325	590.HGE2505-C	363	590.JGE2005	321	590.KGE125003	335
590.FGE12506	342	590.GE16015	316	590.GR3205	312	590.HEM4006.W	329	590.HGE2506	324	590.JGE3202	321	590.KGE125003B	336
590.FGE12506.U	344	590.GE16015.SN	316	590.GR4002	312	590.HEM4008	325	590.HGE2506.W	328	590.JGE3203	321	590.KGE125005	335
590.FGE16003	342	590.GE1603-C	362	590.GR4003	312	590.HEM4008.W	329	590.HGE2508	324	590.JGE3205	321	590.KGE125005.SN	335
590.FGE16003.U	344	590.GE1605-C	362	590.GR4004	312	590.HEM4302	327	590.HGE2508.W	328	590.JGE4002	321	590.KGE125005B	336
590.FGE16005	342	590.GE1606	314	590.GR4005	312	590.HEM6302.SN	327	590.HGE3202	324	590.JGE4003	321	590.KGE125005BSN	336
590.FGE16005.U	344	590.GE1608	314	590.HEL10003	326	590.HEM6302.W	329	590.HGE3202.SN	324	590.JGE4005	321	590.KGE12503-C	365
590.FGE16006	342	590.GE20003	316	590.HEL10005	326	590.HEM6302.WSN	329	590.HGE3202.W	328	590.KEM100003	337	590.KGE12505-C	365
590.FGE16006.U	344	590.GE20005	316	590.HEL1606	325	590.HEM6303	327	590.HGE3202.WSN	328	590.KEM100005	337	590.KGE12506	335
590.FGE20003	346	590.GE20005.SN	316	590.HEL1608	325	590.HEM6303.W	329	590.HGE3203	324	590.KEM100005.SN	337	590.KGE12508	335
590.FGE20003.U	347	590.GE2012	314	590.HEL2002	325	590.HEM6304	327	590.HGE3203-C	363	590.KEM10006	337	590.KGE160003	335
590.FGE20005	346	590.GE2012.SN	314	590.HEL2003	325	590.HEM6305	327	590.HGE3203.W	328	590.KEM10008	337	590.KGE160003B	336
590.FGE20005.U	347	590.GE2013	314	590.HEL2005	325	590.HEM6305.SN	327	590.HGE3203.W	328	590.KEM125003	337	590.KGE160005	335
590.FGE20006	346	590.GE2014	314	590.HEL2506	325	590.HEM6305.W	329	590.HGE3205	324	590.KEM125005	337	590.KGE160005.SN	335
590.FGE20006.U	347	590.GE2015	314	590.HEL2508	325	590.HEM6305.WSN	329	590.HGE3205-C	363	590.KEM125005.SN	337	590.KGE160005B	336
590.FGE2002	342	590.GE2015.SN	314	590.HEL3202	325	590.HEM6306	327	590.HGE3205.SN	324	590.KEM12506	337	590.KGE160005BSN	336
590.FGE2002.U	344	590.GE2022.SN	319	590.HEL3203	325	590.HEM6306.W	329	590.HGE3205.W	328	590.KEM12508	337	590.KGE16003-C	365
590.FGE2003	342	590.GE2003	316	590.HEL3205	325	590.HEM6308	327	590.HGE3205.WSN	328	590.KEM160003	337	590.KGE16003B	336
590.FGE2003.U	344	590.GE25005	316	590.HEL3206	325	590.HEM6308.W	329	590.HGE3206	324	590.KEM160005	337	590.KGE16005	335
590.FGE2005	342	590.GE25005.SN	316	590.HEL3208	325	590.HEM8002	327	590.HGE3206.W	328	590.KEM160005.SN	337	590.KGE16005-C	365
590.FGE2005.U	344	590.GE2503-C	362	590.HEL4002	325	590.HEM8002.SN	327	590.HGE3208	324	590.KEM16003	337	590.KGE16005-C	365
590.FGE2006	342	590.GE2505-C	362	590.HEL4003	325	590.HEM8002.W	329	590.HGE3208.W	328	590.KEM16005	337	590.KGE16005.SN	335
590.FGE2006.U	344	590.GE											

Catalogue Number	Pg.	Catalogue Number	Pg.	Catalogue Number	Pg.	Catalogue Number	Pg.	Catalogue Number	Pg.	Catalogue Number	Pg.	Catalogue Number	Pg.
590.KGTU33	307	590.KMTU33	307	590.SEM10005.SN	332	590.SGE4005.SN	331	590.YA803B	297	590.YU10323-C	306	603.5005-359	549
590.PCF	372	590.PG1M9W01	374	590.SEM10006	332	590.SGE4005.W	333	590.YA803B-C	303	590.YU10323E	304	603.5005-360	549
590.PG8M9W10	374	590.PG1M9W01	374	590.SEM10008	332	590.SGE4006	331	590.YA803B-H	297	590.YU10324	304	604.1623/C	548
590.PLO04001	209	590.PG8M9W10	374	590.SEM12503	332	590.SGE4008	331	590.YA803R	298	590.YU10324E	304	604.1626/C	548
590.PLO04001	227	590.PLO04001	209	590.SEM12505	332	590.SGE6303	331	590.YA804B	297	590.YU10326	304	604.1629/C	548
590.PLO04001	256	590.PLO04001	227	590.SEM12505.SN	332	590.SGE6303-C	364	590.YA804R	298	590.YU10401	306	604.3226/C	548
590.PLO04001	302	590.PLO04001	302	590.SEM12506	332	590.SGE6305	331	590.YA805B	297	590.YU10403	304	604.3227/C	548
590.PLO04001	349	590.PLO04001	349	590.SEM12508	332	590.SGE6305-C	364	590.YA805B-C	303	590.YU10403-C	306	605.1623/C	548
590.PLO04001	358	590.PLO04001	358	590.SEM16003	332	590.SGE6305.SN	331	590.YA805B-H	297	590.YU10403E	304	605.1626/C	548
590.PLO04001	372	590.PLO04002	209	590.SEM16005	332	590.SGE6306	331	590.YA806B	297	590.YU10404	304	605.1627/C	548
590.PLO04002	209	590.PLO04002	227	590.SEM16005.SN	332	590.SGE6308	331	590.YA806B	297	590.YU10404E	304	605.3226/C	548
590.PLO04002	256	590.PLO04002	227	590.SEM16006	332	590.SGE8003	331	590.YA808B	297	590.YU10406	304	605.3227/C	548
590.PLO04002	302	590.PLO04002	302	590.SEM16008	332	590.SGE8003-C	364	590.YF162B	298	590.YU1040E	306	606.3005-059	549
590.PLO04002	349	590.PLO04002	349	590.SEM16008	332	590.SGE8005	331	590.YF163B	298	590.YU1040N	306	606.3005-062	549
590.PLO04002	358	590.PLO04002	358	590.SEM16008	332	590.SGE8005-C	364	590.YF164B	298	590.YU201003	305	606.3005-063	549
590.PLO04002	372	590.PLO04002	372	590.SEM16008	332	590.SGE8005.SN	331	590.YF165B	298	590.YU201003-C	306	606.3005-479	549
590.PLO04003	209	590.PLO04003	209	590.SEM2002	332	590.SGE8006	331	590.YF322B	298	590.YU201003E	305	606.3015-059	549
590.PLO04003	227	590.PLO04003	227	590.SEM2002.SN	332	590.SGE8008	331	590.YF323B	298	590.YU201004	305	606.3015-062	549
590.PLO04003	256	590.PLO04003	256	590.SEM2005	332	590.SGE8008	331	590.YF324B	298	590.YU201004E	305	606.3015-063	549
590.PLO04003	302	590.PLO04003	302	590.SEM2005.SN	332	590.YA1003B	297	590.YF325B	298	590.YU201006	305	606.3015-479	549
590.PLO04003	349	590.PLO04003	349	590.SEM2506	332	590.YA1003B-C	303	590.YM401B	300	590.YU201253	305	606.3505-059	549
590.PLO04003	372	590.PLO04003	372	590.SEM2508	332	590.YA1003R	298	590.YM402B	300	590.YU201253-C	306	606.3505-062	549
590.PLO04004	209	590.PLO04004	209	590.SEM3202	332	590.YA1004B	297	590.YM481B	299	590.YU201253E	305	606.3505-063	549
590.PLO04004	227	590.PLO04004	227	590.SEM3202.SN	332	590.YA1005B	297	590.YM482B	299	590.YU201254	305	606.3505-479	549
590.PLO04004	256	590.PLO04004	256	590.SEM3205	332	590.YA1005B-C	303	590.YM48R1	299	590.YU201254E	305	606.3515-059	549
590.PLO04004	302	590.PLO04004	302	590.SEM3205.SN	332	590.YA1005R	298	590.YM48R2	299	590.YU201256	305	606.3515-062	549
590.PLO04004	349	590.PLO04004	349	590.SEM3206	332	590.YA1006B	297	590.YM49B1	299	590.YU202633	305	606.3515-063	549
590.PLO04005	302	590.PLO04005	302	590.SEM3206	332	590.YA1008B	297	590.YM49B2	299	590.YU202633-C	306	606.3515-479	549
590.PLO04005	349	590.PLO04005	349	590.SEM3208	332	590.YA1253B	297	590.YM49R1	299	590.YU202633E	305	610.3444	544
590.PLO04005	372	590.PLO04005	372	590.SEM4002	332	590.YA1253B-C	303	590.YM49R2	299	590.YU202634	305	610.3466	544
590.PLO04006	302	590.PLO04006	302	590.SEM4002.SN	332	590.YA1255B	297	590.YM50B1	299	590.YU202634E	305	610.3466	544
590.PLO04006	349	590.PLO04006	349	590.SEM4003	332	590.YA1255B-C	303	590.YM50B2	299	590.YU202636	305	610.3466	544
590.PLO04006	372	590.PLO04006	372	590.SEM4005	332	590.YA1256B	297	590.YM50R1	299	590.YU20803	305	610.367	547
590.PLO04007	349	590.PLO04007	349	590.SEM4005.SN	332	590.YA1258B	297	590.YM50R2	299	590.YU20803-C	306	610.368	547
590.PLO05	302	590.PLO05	302	590.SEM4006	332	590.YA1603B	297	590.YM51B1	299	590.YU20803E	305	610.369	547
590.PLO05	303	590.PLO05	303	590.SEM4008	332	590.YA1603B-C	303	590.YM51B2	299	590.YU20804	305	610.370	546
590.PLO05	349	590.PLO05	349	590.SEM4008	332	590.YA1605B	297	590.YM51R1	299	590.YU20804E	305	610.371	546
590.PLO05	366	590.PLO05	366	590.SEM4008	332	590.YA1605B-C	303	590.YM51R2	299	590.YU20806	305	610.372	546
590.PLO06011	349	590.PLO06011	349	590.SEM4008	332	590.YA1606B	297	590.YM67B1	300	590.YU20806	305	610.374	546
590.PLO06011-C	366	590.PLO06011	358	590.SEM4008	332	590.YA1608B	297	590.YM67B2	300	590.YU2125E	306	610.3746	544
590.PLO06011-C	366	590.PLO06011-C	366	590.SEM4008	332	590.YA162B	296	590.YM67B6	300	590.YU2125N	306	610.3747	544
590.PLO06012	349	590.PLO06012	349	590.SEM4008	332	590.YA162R	298	590.YM67B7	300	590.YU202634	305	610.375	547
590.PLO06013	349	590.PLO06013	349	590.SEM4008	332	590.YA163B	296	590.YM67R1	300	590.YU301003	305	610.375	547
590.PLO06013	358	590.PLO06013	358	590.SEM4008	332	590.YA163B-C	303	590.YM67R2	300	590.YU301003E	305	610.376	547
590.PLO06013	358	590.PLO06013	358	590.SEM4008	332	590.YA163R	298	590.YM67R6	300	590.YU301004	305	610.376	547
590.PLO06021	349	590.PLO06021	349	590.SEM4008	332	590.YA164B	296	590.YM67R7	300	590.YU301004E	305	610.377	547
590.PLO06021	358	590.PLO06021	358	590.SEM4008	332	590.YA164R	298	590.YM68B1	300	590.YU301004E	305	610.377	547
590.PLO06021-C	366	590.PLO06021-C	366	590.SEM4008	332	590.YA165B	296	590.YM68B2	300	590.YU301004E	305	610.377	547
590.PLO06022	349	590.PLO06022	349	590.SEM4008	332	590.YA165B-C	303	590.YM68B6	300	590.YU301004E	305	610.377	547
590.PLO06022	358	590.PLO06022	358	590.SEM4008	332	590.YA165R	298	590.YM68B7	300	590.YU301004E	305	610.377	547
590.PLO06022-C	366	590.PLO06022-C	366	590.SEM4008	332	590.YA166B	296	590.YM68R1	300	590.YU301004E	305	610.377	547
590.PLO06023	349	590.PLO06023	349	590.SEM4008	332	590.YA168B	296	590.YM68R2	300	590.YU301004E	305	610.377	547
590.PLO06023	358	590.PLO06023	358	590.SEM4008	332	590.YA202B	296	590.YM70R1	301	590.YU301004E	305	610.377	547
590.PLM1L1220	371	590.PLM1L1220	371	590.SEM4008	332	590.YA203B	296	590.YM70R2	301	590.YU301004E	305	610.377	547
590.PLM2L220	371	590.PLM2L220	371	590.SEM4008	332	590.YA204B	296	590.YM70R6	301	590.YU301004E	305	610.377	547
590.PLM3L3220	371	590.PLM3L3220	371	590.SEM4008	332	590.YA205B	296	590.YM70R7	301	590.YU301004E	305	610.377	547
590.PLM4L220	371	590.PLM4L220	371	590.SEM4008	332	590.YA253B-C	303	590.YM80B1	301	590.YU301004E	305	610.377	547
590.PML5L220	371	590.PML5L220	371	590.SEM4008	332	590.YA255B-C	303	590.YM80B2	301	590.YU301004E	305	610.377	547
590.PPFN1C4N	371	590.PPFN1C4N	371	590.SEM4008	332	590.YA256B	296	590.YMB082-C	303	590.YU301004E	305	610.377	547
590.PPFN1M4N	371	590.PPFN1M4N	371	590.SEM4008	332	590.YA322B	296	590.YM90B1	300	590.YU301004E	305	610.377	547
590.PPFN1R4N	371	590.PPFN1R4N	371	590.SEM4008	332	590.YA322R	298	590.YMA070	302	590.YU301004E	305	610.377	547
590.PPFN1R6N	371	590.PPFN1R6N	371	590.SEM4008	332	590.YA323B	296	590.YMA085	302	590.YU301004E	305	610.377	547
590.PPRL2	370	590.PPRL2	370	590.SEM4008	332	590.YA323B-C	303	590.YMA101	302	590.YU301004E	305	610.377	547
590.PPRL5	370	590.PPRL5	370	590.SEM4008	332	590.YA323R	298	590.YMA101	302	590.YU301004E	305	610.377	547
590.PPRL1	370	590.PPRL1	370	590.SEM4008	332	590.YA324B	296	590.YMA101	302	590.YU301004E	305	610.377	547
590.PPRL2	370	590.PPRL2	370	590.SEM4008	332	590.YA324B	296	590.YMA101	302	590.YU301004E	305	610.377	547
590.PPRL5	370	590.PPRL5	370	590.SEM4008	332	590.YA324B	296	590.YMA101	302	590.YU301004E	305	610.377	547
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590.PPRL5	370	590.PPRL5	370	590.SEM4008	332	590.YA326B	296	590.YMA300	302	590.YU301004E	305	610.377	547
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659.DB5181-05	536	672.2002	382	673.5054B.2012	393	688.002	426	746.3010-054	559	805.3342	579	805.5440.1	580
659.DB5221-01	536	672.2004	382	673.5154	391	688.003	426	746.3010-077	559	805.3342.0	579	805.5440.2	580
659.DB5241-02	536	672.2004.1102	382	673.5154B	391	688.003.R	426	746.3010-091	559	805.3342.1	580	805.5450	579
659.DB5241-04	536	672.2008	382	673.5154B.0012	391	688.004	426	746.3025-350	560	805.3342.2	580	805.5450.0	579
659.DB5281-03	536	672.2008.1101	382	674.1000	449	688.004.R	426	746.3025-351	560	805.3343	579	805.5450.1	580
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659.EN5121-01	535	672.2012	382	674.1100	449	688.005.R	426	746.3510-091	559	805.3343.1	580	805.5463	579
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659.SC5041-00	474	672.2012.1102	382	674.1200	449	688.006.R	426	746.3512-351	559	805.3344	579	805.5463.1	580
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SCM320R7W	155	SCM420B12W	154	SCM430R9S	153	SCM530C5S	153		
SCM330B4S	152	SCM420B5S	152	SCM430R9W	155	SCM530C5W	155		
SCM330B4W	154	SCM420B6S	152	SCM460B12W	156	SCM530C6S	153		
SCM330B5S	152	SCM420B6W	154	SCM460B5W	156	SCM530C6W	155		
SCM330B5W	154	SCM420B7S	152	SCM460B6W	156	SCM530C7S	155		
SCM330B6S	152	SCM420B7W	154	SCM460B7W	156	SCM530C7W	155		
SCM330B6W	154	SCM420B9S	152	SCM460B9W	156	SCM530C9S	155		
SCM330B7S	152	SCM420B9W	154	SCM460C12W	157	SCM530C9W	155		
SCM330B7W	154	SCM420C12S	153	SCM460C5W	157	SCM530M5W	250		
SCM330B8S	152	SCM420C12W	155	SCM460C6W	157	SCM530M5W-C	251		
SCM330B8W	154	SCM420C5S	153	SCM460C7W	157	SCM530M5W-NB	250		
SCM330C4S	153	SCM420C5W	155	SCM460C9W	157	SCM530M7W	250		
SCM330C4W	155	SCM420C6S	153	SCM460M15W	250	SCM530M7W-C	251		
SCM330C5S	153	SCM420C6W	155	SCM460M15W-C	251	SCM530M7W-NB	250		
SCM330C5W	155	SCM420C7S	153	SCM460M15W-NB	250	SCM530M9W	250		
SCM330C6S	153	SCM420C7W	155	SCM460M17W	250	SCM530M9W-C	251		
SCM330C6W	155	SCM420C9S	153	SCM460M17W-C	251	SCM530M9W-NB	250		
SCM330C7S	153	SCM420C9W	155	SCM460M17W-NB	250	SCM530P5S	152		
SCM330C7W	155	SCM420M112W	250	SCM460M19W	250	SCM530P5W	154		
SCM330C8S	153	SCM420M112W-C	251	SCM460M19W-C	251	SCM530P6S	152		
SCM330C8W	155	SCM420M112W-NB	250	SCM460M19W-NB	250	SCM530P6W	154		
SCM330M14W	250	SCM420M15W	250	SCM460P12W	156	SCM530P7S	152		
SCM330M14W-C	251	SCM420M15W-C	251	SCM460P5W	156	SCM530P7W	154		
SCM330M14W-NB	250	SCM420M15W-NB	250	SCM460P6W	156	SCM530P9S	152		
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SCM330M16W-C	251	SCM420M17W-C	251	SCM460P9W	156	SCM530R5S	153		
SCM330M16W-NB	250	SCM420M17W-NB	250	SCM460R12W	157	SCM530R5W	155		
SCM330M17W	250	SCM420M19W	250	SCM460R5W	157	SCM530R6S	153		
SCM330M17W-C	251	SCM420M19W-C	251	SCM460R6W	157	SCM530R6W	155		
SCM330M17W-NB	250	SCM420M19W-NB	250	SCM460R7W	157	SCM530R7S	153		
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SCM330P5S	152	SCM420P5S	152	SCM5100B6W	156	SCM530R9W	155		
SCM330P5W	154	SCM420P5W	154	SCM5100B7W	156	SCM560B5W	156		
SCM330P6S	152	SCM420P6S	152	SCM5100B8W	156	SCM560B6W	156		
SCM330P6W	154	SCM420P6W	154	SCM5100B9W	156	SCM560B7W	156		
SCM330P7S	152	SCM420P7S	152	SCM5100C5W	157	SCM560B9W	156		
SCM330P7W	154	SCM420P7W	154	SCM5100C6W	157	SCM560C5W	157		
SCM330P8S	152	SCM420P9S	152	SCM5100C7W	157	SCM560C6W	157		
SCM330P8W	154	SCM420P9W	154	SCM5100C8W	157	SCM560C7W	157		
SCM330R4S	153	SCM420R12S	153	SCM5100C9W	157	SCM560C9W	157		
SCM330R4W	155	SCM420R12W	155	SCM5100P5W	156	SCM560M5W	250		
SCM330R5W	155	SCM420R5S	153	SCM5100P6W	156	SCM560M5W-C	251		
SCM330R6S	153	SCM420R5W	155	SCM5100P7W	156	SCM560M5W-NB	250		
SCM330R6W	155	SCM420R6S	153	SCM5100P8W	156	SCM560M7W	250		
SCM330R7S	153	SCM420R6W	155	SCM5100P9W	156	SCM560M7W-C	251		
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SCAME PARRE S.p.A.
Via Costa Erta, 15 - 24020 Parre (BG) Italy
Tel. +39 035 705000 - Fax +39 035 703122



www.scame.com
export@scame.com

