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www.giovenzana.com

AUTOMATION • PHOENIX CAM SWITCHES

GIOVENZANA INTERNATIONAL B.V.

GIOVENZANA
INTERNATIONAL B.V.

PHOENIX CAM SWITCHES
PO • PX • CO • CX • G Series

GIOVENZANA
INTERNATIONAL B.V.

Automation - Lift - Handling System

QUALITY AS A LIFE STYLE

www.giovenzana.com

PHOENIX CAM SWITCHES: PO • PX • CO • CX • G Series - Rev. 03_2017
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AUTOMATION TECHNOLOGIES

AUTOMATION

The solutions offered by **Giovenzana** are the results of the detailed analysis of industrial electrical accessories requirements in conformity with all relevant international standards. The range includes:

- Cam Switches Phoenix series from 12A to 200A;
- Switch disconnectors Regolus series from 32A to 160A;
- Auxiliary Controls Pegasus, Orion and NEMA series;
- Limit switches with die cast or molded casing;
- Foot switches and micro switches.

QUALITY

Giovenzana, leader in the elevator and lifting equipment field, has gained a prominent position in the automation sector with the launch of industrial control devices into the market. For many years, all commercial and industrial operations have been integrated within the **UNI EN ISO 9001:2008** quality system.

CSQ certificate N 9105. GIOV.

Quality system is the end users guarantee that all production stages are closely followed under strict control and adhere to the requirements set by the company both in terms of customer expectations and compliance to the relevant international standards as proved by the various certificates **Giovenzana** holds for its products.

By the **UNI EN ISO 14001:2004**, **Giovenzana** keeps up with new technologies in order to reduce raw materials consumption, energy and natural resources and to minimize waste and emissions. This reduces the environmental impact.

The certification CSQ N 9191. GIBV.

COMPLIANCE

All **Giovenzana** products are manufactured according to the most relevant Cee directives. **Giovenzana** certifies this compliance with a declaration of conformity.

CERTIFICATIONS

In order to reach its high quality level **Giovenzana**'s products are tested by multiple third parties. In order to obtain the UL mark, **Giovenzana** submits their products to Underwriter Laboratories Inc., one of the most eminent independent certification companies in the World.

CEE DIRECTIVES

From January 1st, 1997 it is compulsory to CE mark all electromechanical products: this has been outlined by an important regulation: 2006/95/CE Low Voltage Directives.

CE MARK

European directives, applied to all national regulations, set the minimum requirements in term of safety of all electrical material sold within the EU.

Compliance to these requirements is certified by the manufacturer by the CE mark placed on the products.

STANDARDS

Giovenzana's products comply with both the European EN and the American UL standards.

These regulations, such as CEI EN 60204-1 (CEI 44-5) with regards to the safety requirements of the electrical circuits on board industrial machinery, define the characteristics, performance and use of the products.

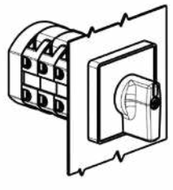
EN EUROPEAN STANDARDS

The EN European standards are originated from IEC International standards and are the result of the collaboration between CENELEC (European Committee for Electrotechnical Standardization) member countries.

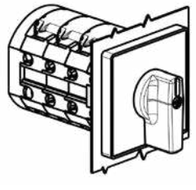
These standards cover and eliminate existing national standards that may be contradictory and non-compliant.

PHOENIX CAM SWITCHES

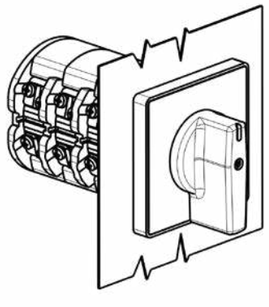
R REAR PANEL MOUNTING



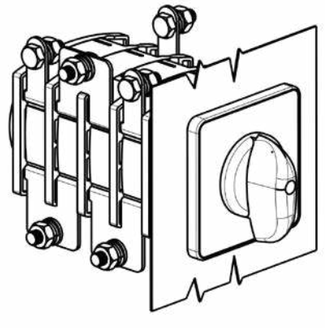
12A - 16A - 20A



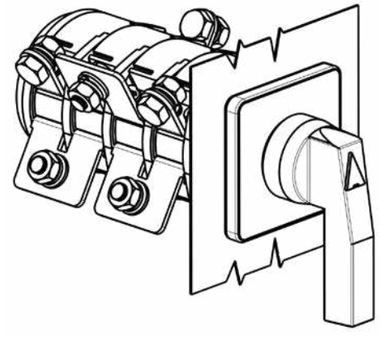
25A - 32A - 40A



63A - 80A

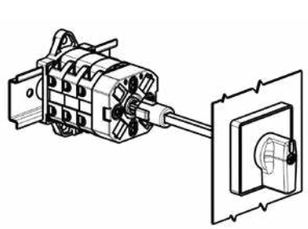


125A

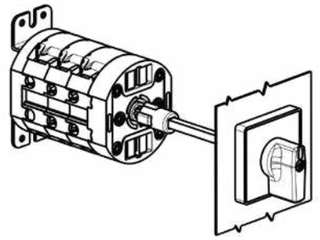


200A

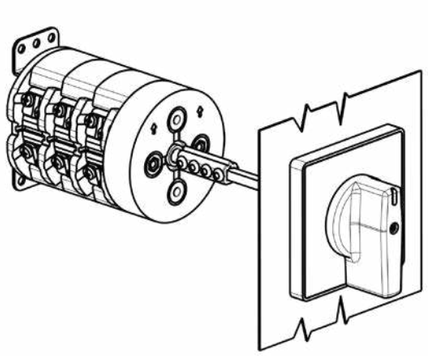
B BASE MOUNTING



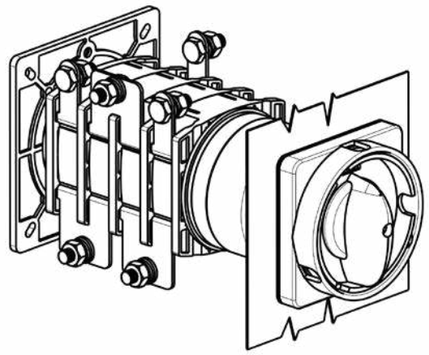
12A - 16A - 20A



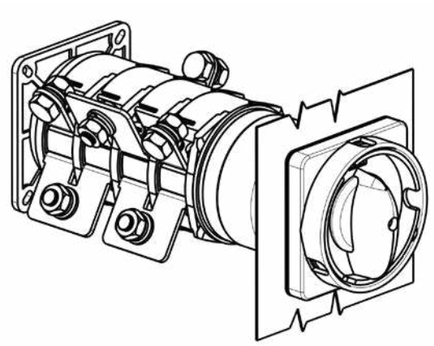
25A - 32A - 40A



63A - 80A



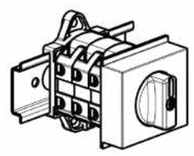
125A



200A

D DIN MOUNTING 46 mm

Only switches DIN RAIL mounting 46 mm standard boxes



12A - 16A - 20A

GENERAL CHARACTERISTICS

CAM SWITCHES - PHOENIX SERIES

The cam switches PHOENIX Series are manufactured in compliance with the strictest international and European standards (**IEC/EN 60947-3, UL508**) and thus satisfy all the strict safety needs.
The long industrial experience, together with the use of the best materials, to knowledge and the most modern machinery and project devices allow us to produce a range of equipment with compact dimensions, and very high quality, by placing **Giovenzana** as a benchmark for warranty, functioning safety and product durability.

TYPE OF MOUNTINGS

R — Rear Panel Mounting

B — Base Mounting

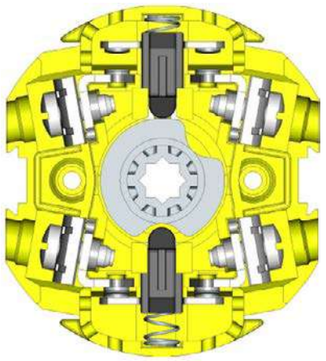
D — Din Mounting 46 mm
Only switches DIN RAIL mounting 46 mm standard boxes

RANGE (AC21A)

12-16-20-25-32-40-63-80-125-200A

INSULATION VOLTAGE

690V



MORE PERFORMANCES!

- Self cleaning pads
- Silver alloy plated pads
- Available gold plated pads
- UL94 Vo class self-extinguishing thermoplastic housing
- Metal shaft, metal rods
- Finger-proof terminal version available till to 40A
- Laser engraved body switch markings
- Laser engraved actuator's plate

APPLICATIONS

ON-OFF SWITCHES 0-1	CHANGEOVER SWITCHES 1-0-2	STEP SWITCHES
STAR-DELTA MOTOR SWITCHES	REVERSING MOTOR SWITCHES	SPECIAL CUSTOMIZED SCHEME ON DEMAND
AMMETER SWITCHES	VOLTMETER SWITCHES	

UTILIZATION CATEGORIES for alternate and direct current

CATEGORY	APPLICATIONS
AC21A	Switching of resistive loads, including moderate overloads
AC22A	Switching of mixed resistive and inductive loads, including moderate overloads
AC23A	Switching of motor loads or other highly inductive loads
AC3	Squirrel-cage motors: starting, switches off motors during running time
DC21A	Switching of resistive loads, including moderate overloads
DC22A	Switching of mixed resistive and inductive loads, including moderate overloads

PROTECTION CLASS (IEC/EN 60529)

IP

PARTS			WATER	
0	Non-protected.		0	Non-protected.
1	Protected against solid foreign objects of 50 mm ø and greater.	The object probe, sphere of 50 mm ø shall not fully penetrate.	1	Protected against vertically falling water drops.	Vertically falling drops shall have no harmful effects.
2	Protected against solid foreign objects of 12,5 mm ø and greater (ex. finger)	The object probe, sphere of 12,5 mm ø shall not fully penetrate.	2	Protected against vertically falling water drops when enclosure tilted up to 15°.	Vertically falling drops shall have no harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical.
3	Protected against solid foreign objects of 2,5 mm ø and greater.	The object probe, sphere of 2,5 mm ø shall not fully penetrate.	3	Protected against spraying water.	Water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effects.
4	Protected against solid foreign objects of 1,0 mm ø and greater.	The object probe, sphere of 1,0 mm ø shall not fully penetrate.	4	Protected against splashing water.	Water splashed against the enclosure from any direction shall have no harmful effects.
5	Dust-protected.	Ingress of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with satisfactory operation of the apparatus or to impair safety.	5	Protected against water jets.	Water projected in jets against the enclosure from any directions shall have no harmful effects.
6	Dust-tights.	No ingress of dust.	6	Protected against powerful water jets.	Water projected in powerful jets against the enclosure from any direction shall have no harmful effects.
			6K	Protected against powerful water jets with increased pressure.	Water projected in powerful jets against the enclosure from any direction, under elevated pressure, shall have no harmful effects (DIN 40050 and not IEC 60529).
			7	Protected against the effects of temporary immersion in water.	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time.
			8	Protected against the effects of continuos immersion in water.	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuosly immersed in water under conditions which shall be agreed between manufacturer and user but wich are more severe than for numeral 7.

PHOENIX CAM SWITCHES

BODIES RANGE OVERVIEW

| RANGE AC21A | 12A - 16A - 20A |

REAR PANEL MOUNTING	BASE MOUNTING	DIN MOUNTING	TERMINAL PROTECTION IP	CODE
R	B	D	IP20 Finger Proof	PO
			IP10	PX

| RANGE AC21A | 25A - 32A - 40A |

REAR PANEL MOUNTING	BASE MOUNTING		TERMINAL PROTECTION IP	CODE
R	B		IP20 Finger Proof	CO
			IP10	CX

| RANGE AC21A | 63A - 80A |

REAR PANEL MOUNTING	BASE MOUNTING		TERMINAL PROTECTION IP	CODE
R	B		IP00	CO

| RANGE AC21A | 125A |

REAR PANEL MOUNTING	BASE MOUNTING	TERMINAL PROTECTION IP	CODE
R	B	IP00	G

| RANGE AC21A | 200A |

REAR PANEL MOUNTING	BASE MOUNTING	TERMINAL PROTECTION IP	CODE
R	B	IP00	G

See the bodies codification map to page 10.

BODIES CODIFICATION MAP

P012 0008 R

- **P012** → BODY SWITCH TYPE
- **0008** → SCHEME TYPE
- **R** → MOUNTING TYPE

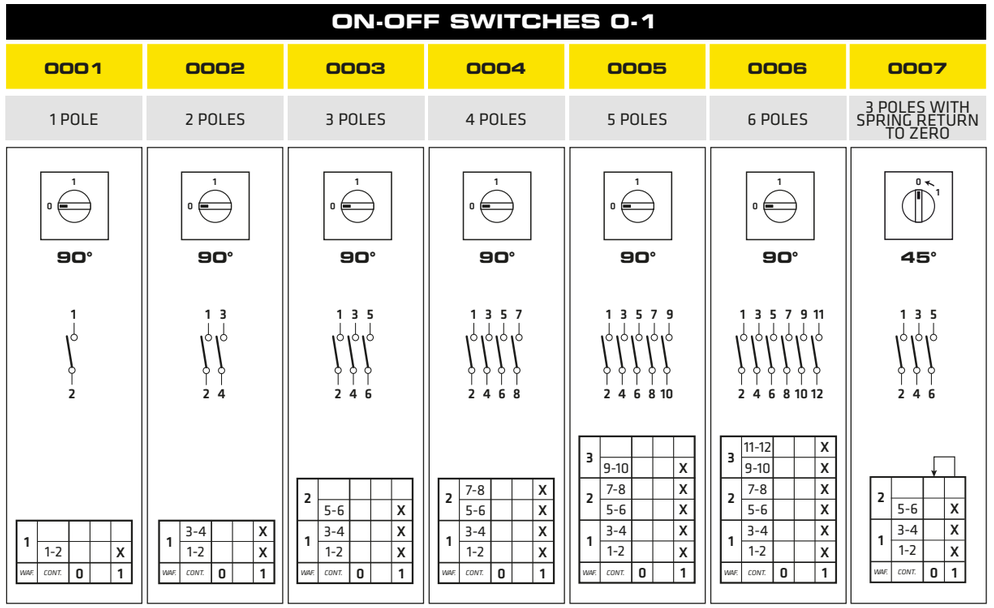
CODE	AC21A	TERMINAL PROT.
P012	12	IP20
PX12	12	IP10
P016	16	IP20
PX16	16	IP10
P020	20	IP20
PX20	20	IP10
C025	25	IP20
CX25	25	IP10
C032	32	IP20
CX32	32	IP10
C040	40	IP20
CX40	40	IP10
C063	63	IP00
C080	80	IP00
G125	125	IP00
G200	200	IP00

CODE	FUNCTION	SWITCH WAFER
	ON-OFF SWITCHES	
0001	On-off switch 1 pole	1
0002	On-off switch 2 poles	1
0003	On-off switch 3 poles	2
0004	On-off switch 4 poles	2
0005	On-off switch 5 poles	3
0006	On-off switch 6 poles	3
0007	On-off switch 3 poles with spring return to zero	2
	CHANGEOVER SWITCHES	
0008	Changeover switch 1 pole	1
0009	Changeover switch 2 poles	2
0010	Changeover switch 3 poles	3
0011	Changeover switch 4 poles	4
	MOTOR SWITCHES	
0012	Reversing switch 3 poles	3
0013	Reversing switch 3 poles with spring return to zero	3
0014	Dahlander pole changing two speed switch	4
0015	Star-delta starter switch	4
0016	Reversing switch single phase with centrifugal cut-out	3
0017	Starter switch single phase with auxiliary phase	2
0018	Reversing-starter switch single phase with auxiliary phase	3
0031	Reversing-dahlander pole changing two speed switch	6
	AMMETER AND VOLTMETER SWITCHES	
0019	Ammeter selector switch 1 pole for 3 current trasformers	3
0020	Voltmeter selector switch phase-neutral	2
0021	Voltmeter selector switch phase-phase	2
0022	Voltmeter selector switch phase-phase for two circuits	4
0023	Voltmeter selector switch phase-phase and phase-neutral	3
0024	Voltmeter selector switch phase-phase and 1 phase-neutral	3
	STEP SWITCHES	
0025	Step switch 1-2 positions without zero 1 pole	1
0026	Step switch 1-2 positions without zero 2 poles	2
0027	Step switch 1-2 positions without zero 3 poles	3
0028	Step switch 0-1-2 positions with zero 1 pole	1
0029	Step switch 0-1-2-3 positions with zero 1 pole	2
0030	Step switch 0-1-2-3-4 positions with zero 1 pole	2
0032	Step switch 0-1-2 positions with zero 2 poles	2
0033	Step switch 0-1-2 positions with zero 3 poles	3
0034	Step switch 0-1-2-3 positions with zero 2 poles	3
0035	Step switch 0-1-2-3 positions with zero 3 poles	5
0036	Step switch 0-1-2-3-4 positions with zero 2 poles	4
0037	Step switch 0-1-2-3-4 positions with zero 3 poles	6
0038	Step switch 1-2-3 positions without zero 1 pole	2
0039	Step switch 1-2-3 positions without zero 2 poles	3
0040	Step switch 1-2-3 positions without zero 3 poles	5
0041	Step switch 1-2-3-4 positions without zero 1 pole	2
0042	Step switch 1-2-3-4 positions without zero 2 poles	4
0043	Step switch 1-2-3-4 positions without zero 3 poles	6

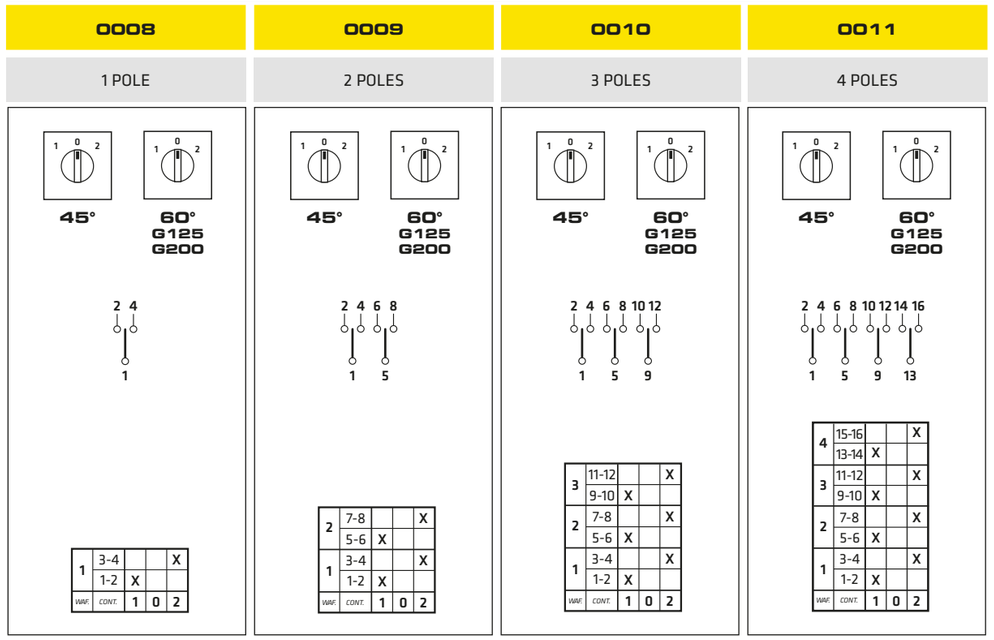
CODE	MOUNTING
R	REAR PANEL
B	BASE
D	DIN Only switches DIN RAIL mounting 46 mm standard boxes.
S	On request **SPECIAL CAM SWITCHES** according customers requirements or customizations.

ELECTRICAL SCHEMES

ON-OFF SWITCHES 0-1



CHANGEOVER SWITCHES 1-0-2

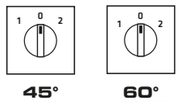


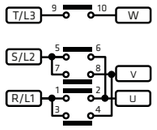
Some combinations of body switch type with electrical function or/with fixing type could not be allowed.

ELECTRICAL SCHEMES

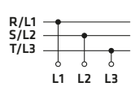
MOTOR SWITCHES

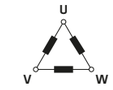
0012	0013	0014	0015
REVERSING SWITCH 3 POLES	REVERSING SWITCH 3 POLES WITH SPRING RETURN TO ZERO	DAHLANDER POLE CHANGING TWO SPEED SWITCH	STAR-DELTA STARTER SWITCH

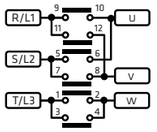




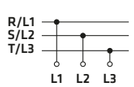
3				
	9-10	X		X
2	7-8	X		
	5-6			X
1	3-4			X
	1-2	X		
WAF.	CONT.	1	0	2

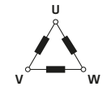


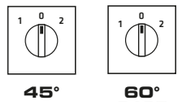


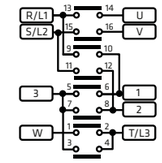


3	11-12			X
	9-10	X		
2	7-8	X		
	5-6			X
1	3-4			X
	1-2	X		
WAF.	CONT.	1	0	2

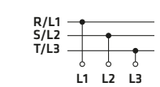


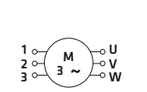


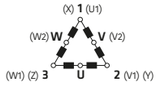


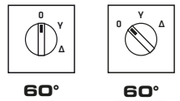


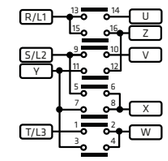
4	15-16			X
	13-14			X
3	11-12	X		
	9-10	X		
2	7-8			X
	5-6			X
1	3-4	X		
	1-2			X
WAF.	CONT.	1	0	2



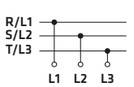


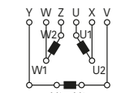






4	15-16			X
	13-14		X	X
3	11-12		X	
	9-10		X	X
2	7-8		X	
	5-6			X
1	3-4			X
	1-2		X	X
WAF.	CONT.	0	Y	Δ

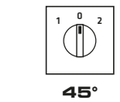


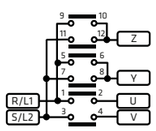


ELECTRICAL SCHEMES

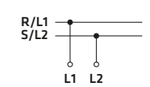
COMANDO MOTORI

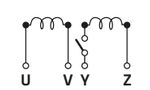
0016	0031	0017	0018
REVERSING SWITCH SINGLE PHASE WITH CENTRIFUGAL CUT-OUT	REVERSING-DAHLANDER POLE CHANGING TWO SPEED SWITCH	STARTER SWITCH SINGLE PHASE WITH AUXILIARY PHASE	REVERSING-STARTER SWITCH SINGLE PHASE WITH AUXILIARY PHASE

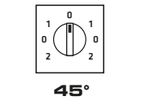


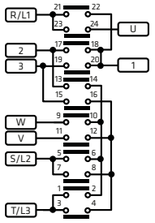


3	11-12	X		
	9-10			X
2	7-8			X
	5-6	X		
1	3-4	X		X
	1-2	X		X
WAF.	CONT.	1	0	2

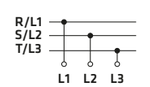


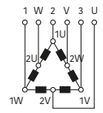


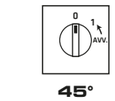


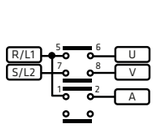


6	23-24	X						X
	21-22			X		X		
5	19-20	X						X
	17-18	X						X
4	15-16			X		X		
	13-14			X		X		
3	11-12	X						X
	9-10	X						X
2	7-8					X		X
	5-6	X		X				
1	3-4	X		X				
	1-2					X		X
WAF.	CONT.	2	0	1	0	1	0	2

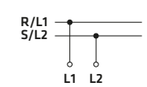


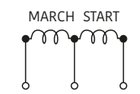


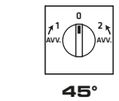


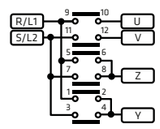


2	7-8		X	X
	5-6		X	X
1				
	1-2			X
WAF.	CONT.	0	1	AVV.

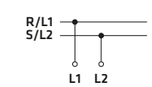


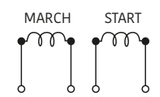






3	11-12	X	X	X	X
	9-10	X	X	X	X
2	7-8				X
	5-6	X			
1	3-4	X	X		
	1-2			X	X
WAF.	CONT.	AVV.	1	0	2	AVV.



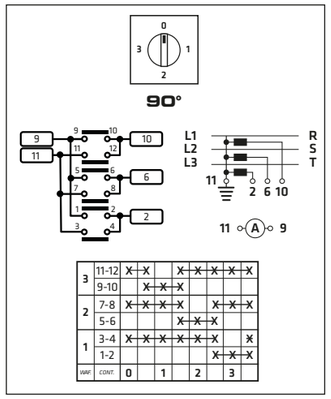


ELECTRICAL SCHEMES

AMMETER AND VOLTMETER SWITCHES

0019

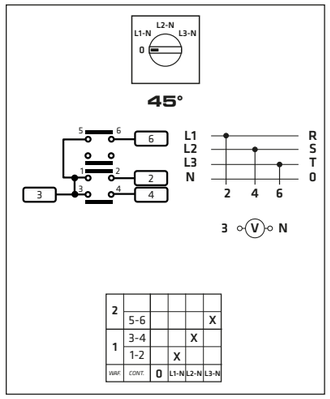
AMMETER SELECTOR SWITCH 1 POLE
FOR 3 CURRENT TRASFORMERS



3	11-12	X	X			X	X	X	X	X
	9-10			X	X	X				
2	7-8	X	X	X	X			X	X	X
	5-6					X	X	X		
1	3-4	X	X	X	X	X	X			X
	1-2								X	X
WAF.	CONT.	0		1		2		3		

0020

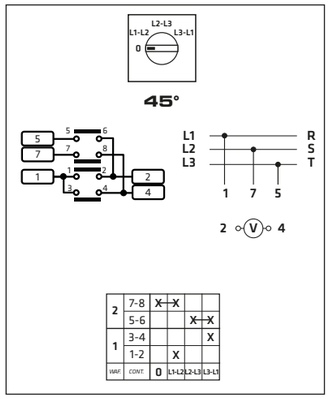
VOLTMETER SELECTOR SWITCH
PHASE-NEUTRAL



2							X
1	3-4			X			
	1-2		X				
WAF.	CONT.	0	L1-N	L2-N	L3-N		

0021

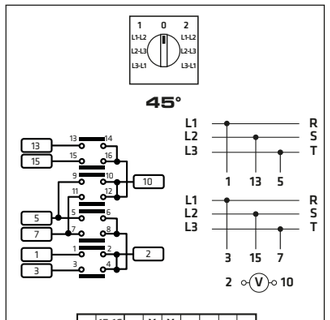
VOLTMETER SELECTOR SWITCH
PHASE-PHASE



2	7-8	X	X				
	5-6				X	X	
1	3-4					X	
	1-2			X			
WAF.	CONT.	0	L1-L2	L2-L3	L3-L1		

0022

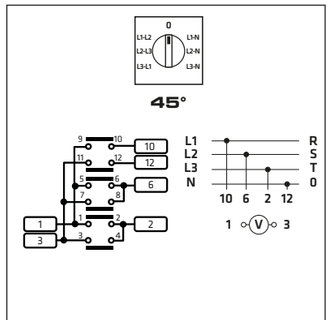
VOLTMETER SELECTOR SWITCH
PHASE-PHASE
FOR TWO CIRCUITS



4	15-16		X	X						
	13-14						X	X		
3	11-12	X								
	9-10									X
2	7-8		X							
	5-6							X		
1	3-4	X		X						
	1-2						X		X	
WAF.	CONT.	L3-L1	L2-L3	L1-L2	0		L3-L1	L2-L3	L1-L2	
		1					2			

0023

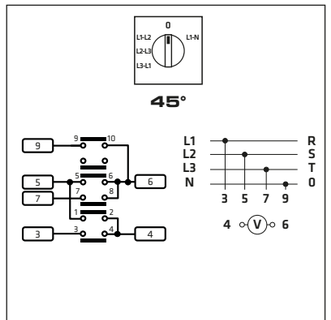
VOLTMETER SELECTOR SWITCH
PHASE-PHASE
AND PHASE-NEUTRAL



3	11-12						X	X	X	
	9-10	X		X		X				
2	7-8			X						
	5-6		X				X			
1	3-4	X	X							
	1-2							X		
WAF.	CONT.	L3-L1	L2-L3	L1-L2	0		L1-N	L2-N	L1-L2	

0024

VOLTMETER SELECTOR SWITCH
PHASE-PHASE
AND 1 PHASE-NEUTRAL



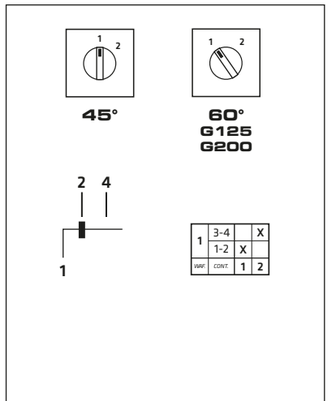
3	9-10						X
2	7-8	X	X				
	5-6				X	X	
1	3-4	X		X			X
	1-2		X				
WAF.	CONT.	L3-L1	L2-L3	L1-L2	0		L1-N

ELECTRICAL SCHEMES

STEP SWITCHES

0025

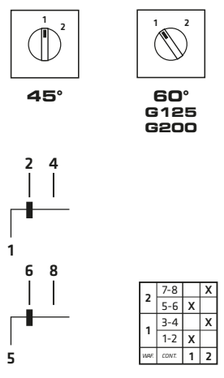
STEP SWITCH 1-2 POSITIONS
WITHOUT ZERO
1 POLE



1	3-4		X
	1-2	X	
WAF.	CONT.	1	2

0026

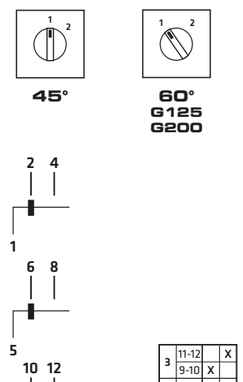
STEP SWITCH 1-2 POSITIONS
WITHOUT ZERO
2 POLES



2	7-8		X
	5-6	X	
1	3-4		X
	1-2	X	
WAF.	CONT.	1	2

0027

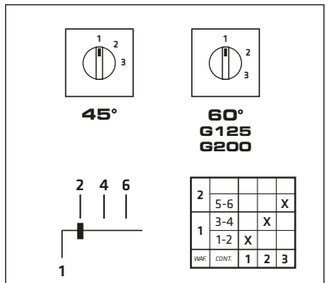
STEP SWITCH 1-2 POSITIONS
WITHOUT ZERO
3 POLES



3	11-12		X
	9-10	X	
2	7-8		X
	5-6	X	
1	3-4		X
	1-2	X	
WAF.	CONT.	1	2

0038

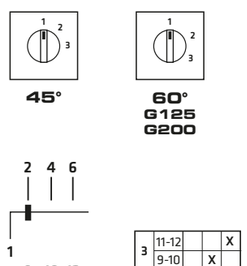
STEP SWITCH 1-2-3 POSITIONS
WITHOUT ZERO
1 POLE



2				
	5-6			X
1	3-4		X	
	1-2	X		
WAF.	CONT.	1	2	3

0039

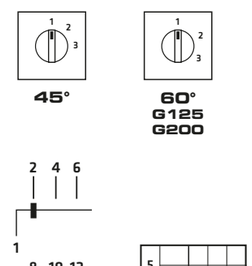
STEP SWITCH 1-2-3 POSITIONS
WITHOUT ZERO
2 POLES



3	11-12			X
	9-10		X	
2	7-8	X		
	5-6			X
1	3-4		X	
	1-2	X		
WAF.	CONT.	1	2	3

0040

STEP SWITCH 1-2-3 POSITIONS
WITHOUT ZERO
3 POLES



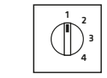
5	17-18			X
4	15-16		X	
	13-14	X		
3	11-12			X
	9-10		X	
2	7-8	X		
	5-6			X
1	3-4		X	
	1-2	X		
WAF.	CONT.	1	2	3

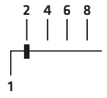
ELECTRICAL SCHEMES

STEP SWITCHES

0041

STEP SWITCH 1-2-3-4 POSITIONS
WITHOUT ZERO
1 POLE

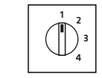


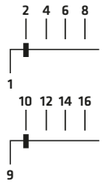


2	7-8				X
	5-6			X	
1	3-4		X		
	1-2	X			
VAR.	CONT.	1	2	3	4

0042

STEP SWITCH 1-2-3-4 POSITIONS
WITHOUT ZERO
2 POLES

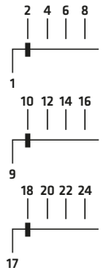




4	15-16				X
	13-14			X	
3	11-12		X		
	9-10	X			
2	7-8				X
	5-6			X	
1	3-4		X		
	1-2	X			
VAR.	CONT.	1	2	3	4

0043

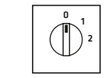
STEP SWITCH 1-2-3-4 POSITIONS
WITHOUT ZERO
3 POLES

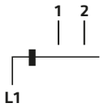


6	23-24				X
	21-22			X	
5	19-20		X		
	17-18	X			
4	15-16				X
	13-14			X	
3	11-12		X		
	9-10	X			
2	7-8				X
	5-6			X	
1	3-4		X		
	1-2	X			
VAR.	CONT.	1	2	3	4

0028

STEP SWITCH 0-1-2 POSITIONS
WITH ZERO
1 POLE

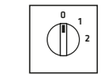


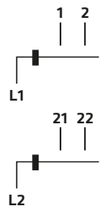


1	3-4				X
	1-2		X		
VAR.	CONT.	0	1	2	

0032

STEP SWITCH 0-1-2 POSITIONS
WITH ZERO
2 POLES

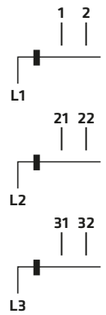




2	7-8				X
	5-6		X		
1	3-4				X
	1-2			X	
VAR.	CONT.	0	1	2	

0033

STEP SWITCH 0-1-2 POSITIONS
WITH ZERO
3 POLES



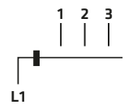
3	11-12				X
	9-10		X		
2	7-8				X
	5-6		X		
1	3-4				X
	1-2		X		
VAR.	CONT.	0	1	2	

ELECTRICAL SCHEMES

STEP SWITCHES

0029

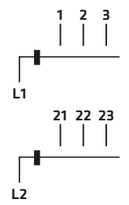
STEP SWITCH 0-1-2-3 POSITIONS
WITH ZERO
1 POLE



2	7-8				X
	5-6		X		
1	1-2			X	
VAR.	CONT.	0	1	2	3

0034

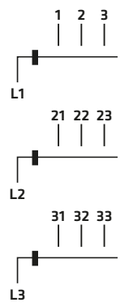
STEP SWITCH 0-1-2-3 POSITIONS
WITH ZERO
2 POLES



3	11-12				X
	9-10		X		
2	7-8			X	
	5-6			X	
1	3-4				X
	1-2		X		
VAR.	CONT.	0	1	2	3

0035

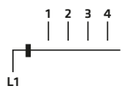
STEP SWITCH 0-1-2-3 POSITIONS
WITH ZERO
3 POLES



5	19-20			X	
4	15-16				X
	13-14		X		
3	11-12				X
	9-10		X		
2	7-8			X	
	5-6			X	
1	3-4				X
	1-2		X		
VAR.	CONT.	0	1	2	3

0030

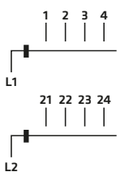
STEP SWITCH 0-1-2-3-4 POSITIONS
WITH ZERO
1 POLE



2	7-8				X	
	5-6		X			
1	3-4					X
	1-2			X		
VAR.	CONT.	0	1	2	3	4

0036

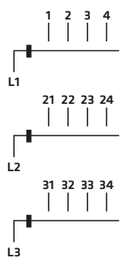
STEP SWITCH 0-1-2-3-4 POSITIONS
WITH ZERO
2 POLES



4	15-16				X	
	13-14		X			
3	11-12					X
	9-10			X		
2	7-8				X	
	5-6		X			
1	3-4					X
	1-2			X		
VAR.	CONT.	0	1	2	3	4

0037

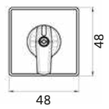
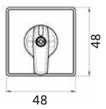
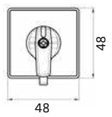
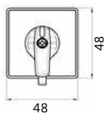
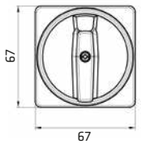
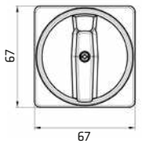
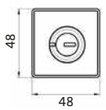
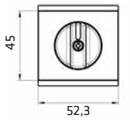
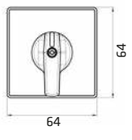
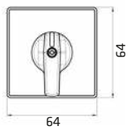
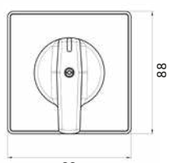
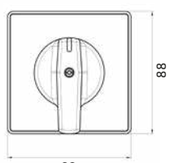
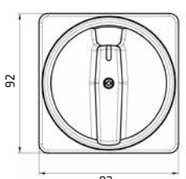
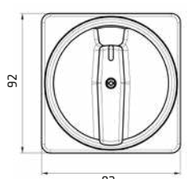
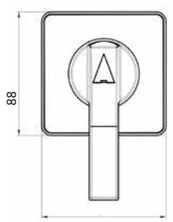
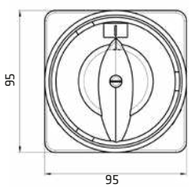
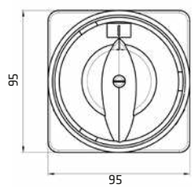
STEP SWITCH 0-1-2-3-4 POSITIONS
WITH ZERO
3 POLES



6	23-24				X	
	21-22		X			
5	19-20					X
	17-18			X		
4	15-16				X	
	13-14		X			
3	11-12					X
	9-10			X		
2	7-8				X	
	5-6		X			
1	3-4					X
	1-2			X		
VAR.	CONT.	0	1	2	3	4

PHOENIX CAM SWITCHES

ACTUATORS RANGE OVERVIEW

AC21A	➔ Grey plate ➔ Black knob	➔ Yellow plate ➔ Red knob	➔ Grey plate ➔ Black knob ➔ Padlockable (Max 1) ➔ Padlockable in 0	➔ Yellow plate ➔ Red knob ➔ Padlockable (Max 1) ➔ Padlockable in 0	➔ Grey plate ➔ Black knob ➔ Padlockable (Max 3) ➔ Padlockable in 0	➔ Yellow plate ➔ Red knob ➔ Padlockable (Max 3) ➔ Padlockable in 0	➔ Grey plate ➔ Key operated	➔ Without plate ➔ Knob operated	➔ Without plate ➔ Key operated	➔ DIN 45x52,3 ➔ 46 mm standard boxes
12A 16A 20A										
25A 32A 40A										
63A 80A										
125A										
200A										

See the actuator codification map to page 20.

PHOENIX CAM SWITCHES

ACTUATORS CODIFICATION MAP

001 / 0001-1

FAMILY TYPE

ACTUATOR	LINE	□	MOUNTING	CODE	PROT. CLASS
	12-16-20	48	R screw	001/...	IP65
	12-16-20	48	R ø22	056X/...	IP65
	25-32-40	64	R screw	007/...	IP65
	63-80	88	R screw	201/...	IP65
	125	88	R screw	441/...	IP65
	200	88	R screw	461/...	IP65
	12-16-20	48	B screw	020/...	IP65
	25-32-40	64	B screw	021/...	IP65
	12...40	48	B ø22	095/...	IP65
	63-80	88	B screw	220/...	IP65

➲ Grey plate ➲ Black knob

	12-16-20	48	R screw	002/...	IP65
	12-16-20	48	R ø22	058X/...	IP65
	25-32-40	64	R screw	008/...	IP65
	12-16-20	48	B screw	030/...	IP65
	12...40	48	B ø22	070/...	IP65

➲ Yellow plate ➲ Red knob

	12...40	48	R screw	003/...	IP65 4-4X
	12-16-20	48	R ø22	059X/...	IP65
	12...40	48	B screw	005/...	IP65 4-4X
	12...40	48	B ø22	077/...	IP65 4-4X

➲ Grey plate ➲ Black knob ➲ Padlockable (Max 1)
➲ Padlockable in 0

	12...40	48	R screw	004/...	IP65 4-4X
	12-16-20	48	R ø22	060X/...	IP65
	12...40	48	B screw	006/...	IP65 4-4X
	12...40	48	B ø22	069/...	IP65 4-4X

➲ Yellow plate ➲ Red knob ➲ Padlockable (Max 1)
➲ Padlockable in 0

ACTUATOR	LINE	□	MOUNTING	CODE	PROT. CLASS
	12...40	67	R screw	009/...	IP65 4-4X
	12-16-20	67	R ø22	061X/...	IP65
	63-80	92	R screw	209/...	IP65
	125-200	95	R screw	449/...	IP65
	12...40	67	B screw	011/...	IP65 4-4X
	12...40	67	B ø22	063/...	IP65 4-4X
	63-80	92	B screw	211/...	IP65
	125-200	95	B screw	451/...	IP65

➲ Grey plate ➲ Black knob ➲ Padlockable (Max 3)
➲ Padlockable in 0

	12...40	67	R screw	010/...	IP65 4-4X
	12-16-20	67	R ø22	062X/...	IP65
	63-80	92	R screw	210/...	IP65
	125-200	95	R screw	450/...	IP65
	12...40	67	B screw	012/...	IP65 4-4X
	12...40	67	B ø22	064/...	IP65 4-4X
	63-80	92	B screw	212/...	IP65
	125-200	95	B screw	452/...	IP65

➲ Yellow plate ➲ Red knob ➲ Padlockable (Max 3)
➲ Padlockable in 0

	12-16-20	48	R ø22	057X/...	IP65

➲ Grey plate ➲ Key operated
➲ Key removable at "0" position

	12-16-20	-	R ø22	028X	IP65

➲ Without plate ➲ Knob operated

	12-16-20	-	R ø22	029X	IP65

➲ Without plate ➲ Key operated
➲ Key removable at 0° and 180° position

	12-16-20	45x52	D screw	027/...	-

➲ Grey plate ➲ Black knob
➲ 46 mm standard boxes

SCHEME/INSCRIPTION TYPE - version or key extraction position

ON-OFF SWITCHES 0-1

90°

001/0001
002/0001
003/0001
004/0001
005/0001
006/0001
007/0001
008/0001
009/0001
010/0001
011/0001
012/0001
020/0001
021/0001
030/0001
056X/0001
057X/0001
058X/0001
059X/0001
060X/0001
061X/0001
062X/0001
063/0001
064/0001
069/0001
070/0001
077/0001
095/0001
201/0001
209/0001
210/0001
211/0001
212/0001
220/0001
441/0001
449/0001
450/0001
451/0001
452/0001
461/0001

90°

001/0001-1
002/0001-1
003/0001-1
004/0001-1
007/0001-1
008/0001-1
009/0001-1
010/0001-1
011/0001-A
012/0001-2
027/0001
056X/0001-1
057X/0001-1
058X/0001-1
059X/0001-1
060X/0001-1
061X/0001-1
062X/0001-1
063/0001-1
064/0001-1
201/0001-1
209/0001-1
210/0001-1
211/0001-1
212/0001-1

45°

001/0007
002/0007
003/0007
007/0007
008/0007
010/0007
056X/0007
057X/0007
058X/0007
061X/0007

CHANGEOVER SWITCHES 1-0-2 MOTOR SWITCHES

45°

001/0008
002/0008
003/0008
004/0008
005/0008
006/0008
007/0008
008/0008
009/0008
010/0008
011/0008
012/0008
020/0008
021/0008
027/0008
030/0008
056X/0008
057X/0008-CA
058X/0008
059X/0008
060X/0008
061X/0008
062X/0008
063/0008
064/0008
068/0008
069/0008
070/0008
077/0008
095/0008
201/0008
209/0008
210/0008
211/0008
212/0008
220/0008
441/0008
461/0008

45°

001/0017
002/0017
003/0017
004/0017
009/0017
010/0017
056X/0017

60°

60° G125 G200

001/0015
002/0015
003/0015
004/0015
007/0015
008/0015
009/0015
010/0015
056X/0015
441/0015
461/0015

45°

001/0013
002/0013
003/0013
004/0013
007/0013
009/0013
010/0013
056X/0013
057X/0013-CA
058X/0013
059X/0013
060X/0013
061X/0013
062X/0013

45°

001/0018
002/0018
003/0018
004/0018
009/0018
010/0018
056X/0018

45°

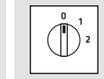
001/0031
002/0031
003/0031
004/0031
007/0031
008/0031
009/0031
010/0031
056X/0031

STEP SWITCHES

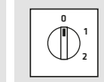
45°

60° G125 G200

001/0025
007/0025
056X/0025
201/0025
441/0025
461/0025

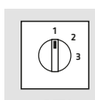


45°



60° G125 G200

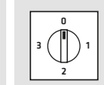
001/0028
007/0028
056X/0028
057X/0028-CA
201/0028
441/0028
461/0028



45°

60° G125 G200

001/0038
007/0038
056X/0038
201/0038
441/0038
461/0038

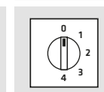


90° G125 G200

001/0029
007/0029
056X/0029
057X/0029-CA
441/0029
461/0029

90° G125 G200

001/0041
007/0041
056X/0041
441/0041
461/0041



60° G125 G200

001/0030
007/0030
056X/0030
441/0030
461/0030

AMMETER SWITCHES

90°

001/0019
027/0019
056X/0019

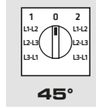
VOLTMETER SWITCHES

45°

001/0020
027/0020
056X/0020

45°

001/0021
027/0021
056X/0021



45°

001/0022
056X/0022

45°

001/0023
027/0023
056X/0023

45°

001/0024
027/0024
056X/0024

Some combinations of actuator family/inscription couldn't be available as standard.
Other combinations with special inscription are available on request.

GIOVENZANA
INTERNATIONAL B.V.

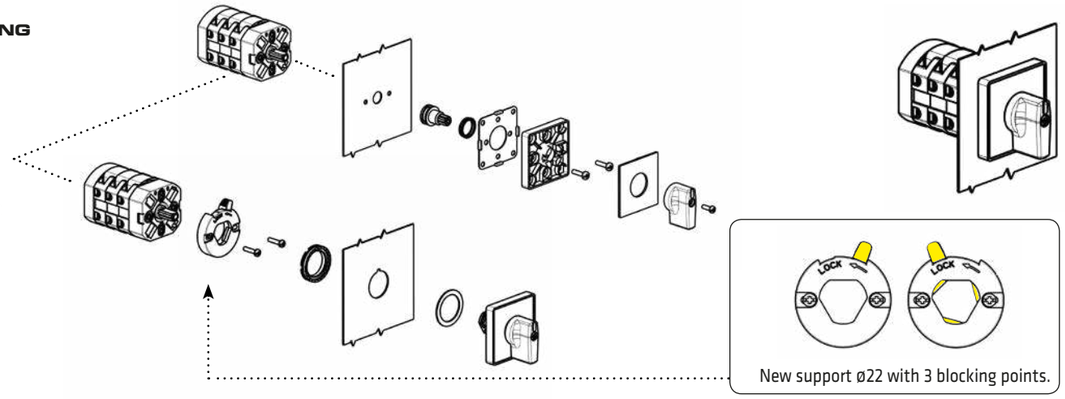
PHOENIX CAM SWITCHES
REAR PANEL MOUNTING - R

REAR PANEL MOUNTING

| RANGE AC21A | 12A - 16A - 20A |

SCREW FIXING

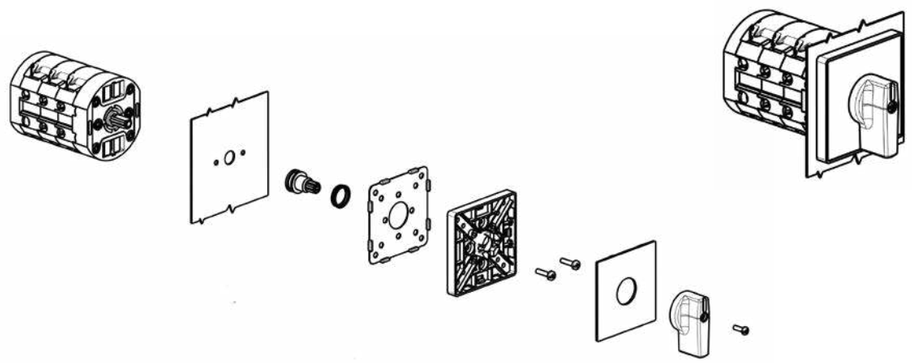
Ø22 FIXING



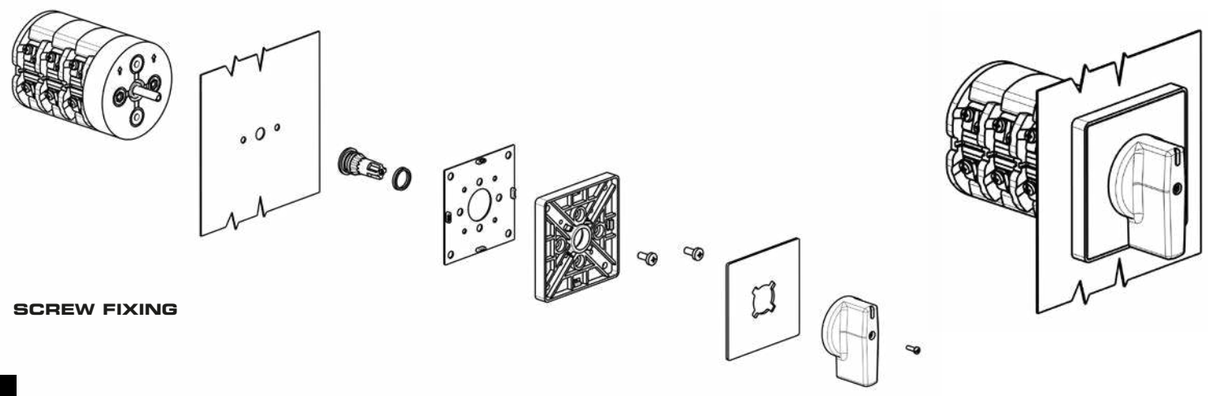
New support ø22 with 3 blocking points.

| RANGE AC21A | 25A - 32A - 40A |

SCREW FIXING



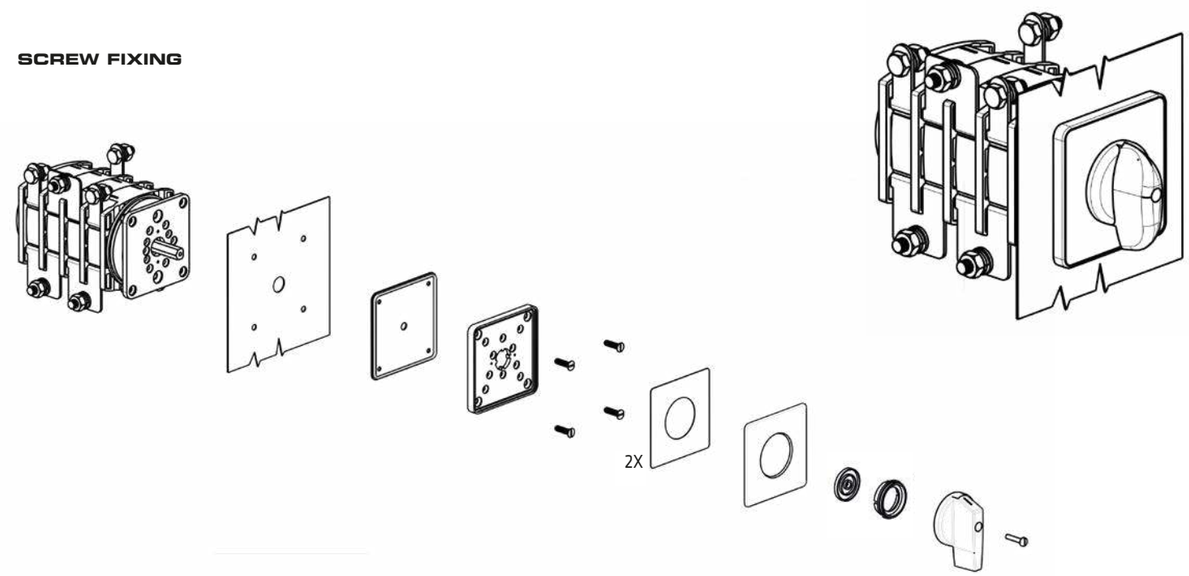
| RANGE AC21A | 63A - 80A |



SCREW FIXING

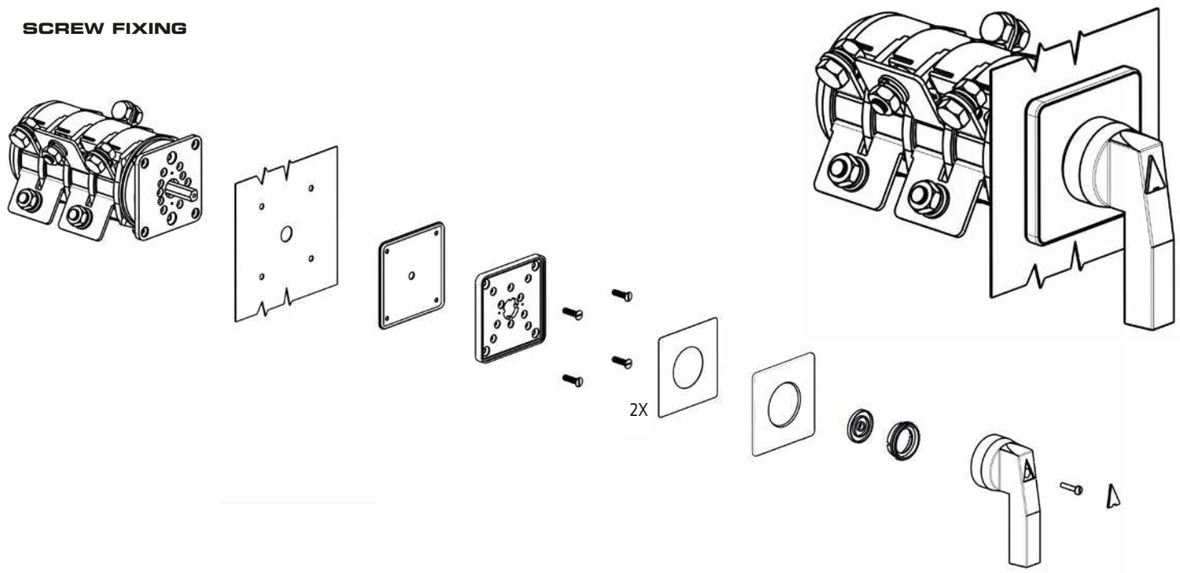
| RANGE AC21A | 125A |

SCREW FIXING



| RANGE AC21A | 200A |

SCREW FIXING



See the bodies switch codification map to page 10.

REAR PANEL MOUNTING

PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

12-16-20A

90°

90°

90°

90°

90°

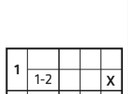
90°

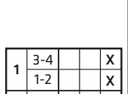
45°

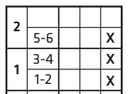
25-32-40A

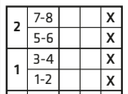
63-80A

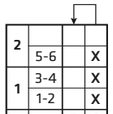
125A











200A

SERIES	AC21A	1 POLE	2 POLES	3 POLES	4 POLES	5 POLES	6 POLES	3 POLES WITH SPRING RETURN TO ZERO
P012	12A	P0120001R	P0120002R	P0120003R	P0120004R	P0120005R	P0120006R	P0120007R
P016	16A	P0160001R	P0160002R	P0160003R	P0160004R	P0160005R	P0160006R	P0160007R
P020	20A	P0200001R	P0200002R	P0200003R	P0200004R	P0200005R	P0200006R	P0200007R
C025	25A	C0250001R	C0250002R	C0250003R	C0250004R	C0250005R	C0250006R	C0250007R
C032	32A	C0320001R	C0320002R	C0320003R	C0320004R	C0320005R	C0320006R	C0320007R
C040	40A	C0400001R	C0400002R	C0400003R	C0400004R	C0400005R	C0400006R	C0400007R
C063	63A	C0630001R	C0630002R	C0630003R	C0630004R	C0630005R	C0630006R	-
C080	80A	C0800001R	C0800002R	C0800003R	C0800004R	C0800005R	C0800006R	-
G125	125A	-	G1250002R	G1250003R	G1250004R	-	G1250006R	-
G200	200A	-	G2000002R	G2000003R	G2000004R	-	G2000006R	-

ACTUATOR	FIXING	P012 - P016 - P020				C025 - C032 - C040			C063 - C080		G125	G200
		90°	90°	45°	NO	90°	90°	45°	90°	90°	90°	90°
	screw	001/0001	001/0001-1	001/0007	-	007/0001	007/0001-1	007/0007	201/0001	201/0001-1	441/0001	461/0001
	ø22	056X/0001	056X/0001-1	056X/0007	-	-	-	-	-	-	-	-
	screw	002/0001	002/0001-1	002/0007	-	008/0001	008/0001-1	008/0007	-	-	-	-
	ø22	058X/0001	058X/0001-1	058X/0007	-	-	-	-	-	-	-	-
	screw	003/0001	003/0001-1	003/0007	-	003/0001	003/0001-1	003/0007	-	-	-	-
	ø22	059X/0001	059X/0001-1	-	-	-	-	-	-	-	-	-
	screw	004/0001	004/0001-1	004/0007	-	004/0001	004/0001-1	004/0007	-	-	-	-
	ø22	060X/0001	060X/0001-1	-	-	-	-	-	-	-	-	-
	screw	009/0001	009/0001-1	009/0007	-	009/0001	009/0001-1	009/0007	209/0001	209/0001-1	449/0001	449/0001
	ø22	061X/0001	061X/0001-1	061X/0007	-	-	-	-	-	-	-	-
	screw	010/0001	010/0001-1	010/0007	-	010/0001	010/0001-1	010/0007	210/0001	210/0001	450/0001	450/0001
	ø22	062X/0001	062X/0001-1	062/0007	-	-	-	-	-	-	-	-
	ø22	057X/0001	057X/0001-1	057X/0007	-	-	-	-	-	-	-	-
	ø22	-	-	-	028X	-	-	-	-	-	-	-
	ø22	-	-	-	029X	-	-	-	-	-	-	-

UL50 NEMA Type 1-4-4X
Body mounting rotated by 90°
Key removable at "0" position
Key removable at 0° and 180°

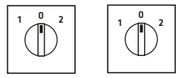
Switches from 12A to 40A: replace the number "0" with letter "X" to order the open terminal protection (es. P012... > PX12...). See to page 8.

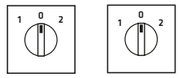
REAR PANEL MOUNTING

PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

12-16-20A

45° | 60° G125 G200



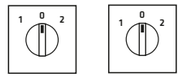


25-32-40A

45° | 60° G125 G200

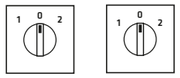
63-80A

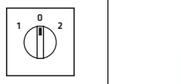
45° | 60° G125 G200



125A

45° | 60° G125 G200

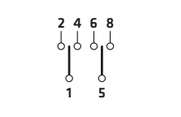




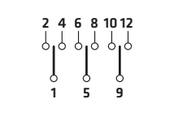
200A

45° | 60° G125 G200

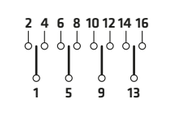
1	3-4			X
	1-2	X		
WAY.	CONT.	1	0	2



2	7-8			X
	5-6	X		
1	3-4			X
	1-2	X		
WAY.	CONT.	1	0	2



3	11-12			X
	9-10	X		
2	7-8			X
	5-6	X		
1	3-4			X
	1-2	X		
WAY.	CONT.	1	0	2



4	15-16			X
	13-14	X		
3	11-12			X
	9-10	X		
2	7-8			X
	5-6	X		
1	3-4			X
	1-2	X		
WAY.	CONT.	1	0	2

SERIEs	AC21A	1 POLE	2 POLES	3 POLES	4 POLES
P012	12A	P0120008R	P0120009R	P0120010R	P0120011R
P016	16A	P0160008R	P0160009R	P0160010R	P0160011R
P020	20A	P0200008R	P0200009R	P0200010R	P0200011R
C025	25A	C0250008R	C0250009R	C0250010R	C0250011R
C032	32A	C0320008R	C0320009R	C0320010R	C0320011R
C040	40A	C0400008R	C0400009R	C0400010R	C0400011R
C063	63A	C0630008R	C0630009R	C0630010R	C0630011R
C080	80A	C0800008R	C0800009R	C0800010R	C0800011R
G125	125A	G1250008R	G1250009R	G1250010R	G1250011R
G200	200A	G2000008R	G2000009R	G2000010R	G2000011R

ACTUATOR	FIXING	P012 - P016 - P020		C025 - C032 - C040	C063 - C080	G125	G200
		45°	NO	45°	45°	60°	60°
	screw	001/0008	-	007/0008	201/0008	441/0008	461/0008
	ø22	056X/0008	-	-	-	-	-
	screw	002/0008	-	008/0008	-	-	-
	ø22	058X/0008	-	-	-	-	-
	screw	003/0008	-	003/0008	-	-	-
	ø22	059X/0008	-	-	-	-	-
	screw	004/0008	-	004/0008	-	-	-
	ø22	060X/0008	-	-	-	-	-
	screw	009/0008	-	009/0008	209/0008	-	-
	ø22	061X/0008	-	-	-	-	-
	screw	010/0008	-	010/0008	210/0008	-	-
	ø22	062X/0008	-	-	-	-	-
	ø22	057X/0008-CA	-	-	-	-	-
	ø22	-	028X	-	-	-	-
	ø22	-	029X	-	-	-	-

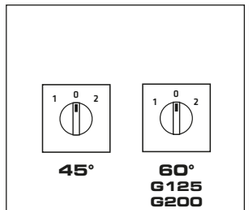
Switches from 12A to 40A: replace the number "0" with letter "X" to order the open terminal protection (es. P012... > PX12...). See to page 8.

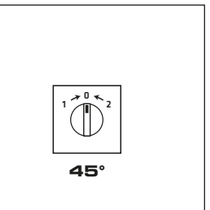
- UL50 NEMA Type 1-4-4X
- Body mounting rotated by 90°
- Key removable at "0" position
- Key removable at 0° and 180°

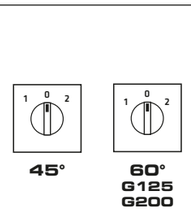
REAR PANEL MOUNTING

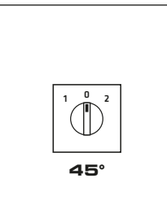
PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

12-16-20A

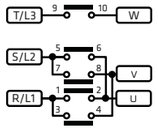


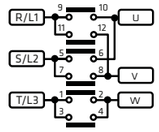


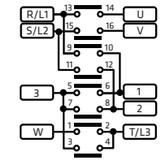


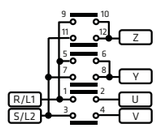


25-32-40A

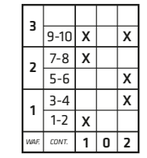


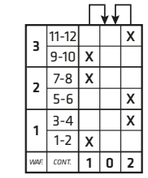


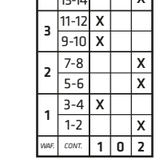


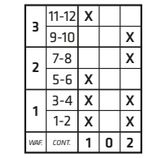


63-80A

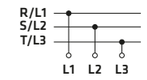


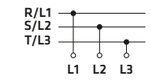


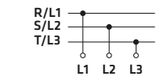


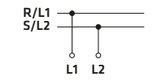


125A

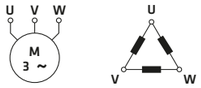


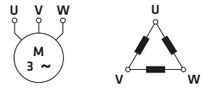


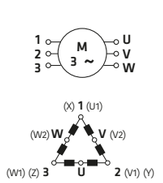


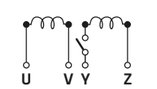


200A









SERIES	AC21A	REVERSING SWITCH 3 POLES	REVERSING SWITCH 3 POLES WITH SPRING RETURN TO ZERO	DAHLANDER POLE CHANGING TWO SPEED SWITCH	REVERSING SWITCH SINGLE PHASE WITH CENTRIFUGAL CUT-OUT
P012	12A	P0120012R	P0120013R	P0120014R	P0120016R
P016	16A	P0160012R	P0160013R	P0160014R	P0160016R
P020	20A	P0200012R	P0200013R	P0200014R	P0200016R
C025	25A	C0250012R	C0250013R	C0250014R	C0250016R
C032	32A	C0320012R	C0320013R	C0320014R	C0320016R
C040	40A	C0400012R	C0400013R	C0400014R	C0400016R
C063	63A	C0630012R	-	C0630014R	-
C080	80A	C0800012R	-	C0800014R	-
G125	125A	G1250012R	-	G1250014R	-
G200	200A	G2000012R	-	G2000014R	-

ACTUATOR	FIXING	P012 - P016 - P020 45°	P012 - P016 - P020 45°	P012 - P016 - P020 NO	C025 - C032 - C040 45°	C025 - C032 - C040 45°	C063 - C080 45°	G125 60°	G200 60°
	screw	001/0008	001/0013	-	007/0008	007/00013	201/0008	441/0008	461/0008
	ø22	056X/0008	056X/0013	-	-	-	-	-	-
	screw	002/0008	002/0013	-	008/0008	-	-	-	-
	ø22	058X/0008	058X/0013	-	-	-	-	-	-
	screw	003/0008	003/0013	-	003/0008	003/0013	-	-	-
	ø22	059X/0008	059X/0013	-	-	-	-	-	-
	screw	004/0008	004/0013	-	004/0008	004/0013	-	-	-
	ø22	060X/0008	060X/0013	-	-	-	-	-	-
	screw	009/0008	009/0013	-	009/0008	009/0013	209/0008	-	-
	ø22	061X/0008	061X/0013	-	-	-	-	-	-
	screw	010/0008	010/0013	-	010/0008	010/0013	210/0008	-	-
	ø22	062X/0008	062X/0013	-	-	-	-	-	-
	ø22	057X/0008-CA	057X/0013-CA	-	-	-	-	-	-
	ø22	-	-	028X	-	-	-	-	-
	ø22	-	-	029X	-	-	-	-	-

UL50 NEMA Type 1-4-4X
Body mounting rotated by 90°
Key removable at "0" position
Key removable at 0° and 180°

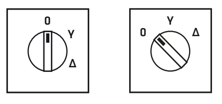
Switches from 12A to 40A: replace the number "0" with letter "X" to order the open terminal protection (es. P012... > PX12...). See to page 8.

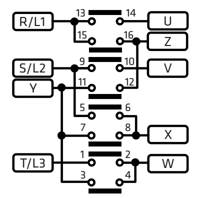
REAR PANEL MOUNTING

PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

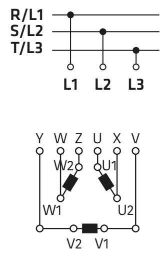
12-16-20A | 25-32-40A | 125A | 200A

STAR-DELTA STARTER SWITCH

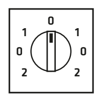

60° | 60° G125 G200

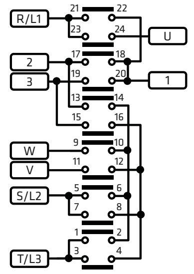


WAF.	CONT.	0		Y		Δ
4	15-16					X
	13-14			X	X	X
3	11-12			X		
	9-10			X	X	X
2	7-8			X		
	5-6					X
1	3-4					X
	1-2			X	X	X

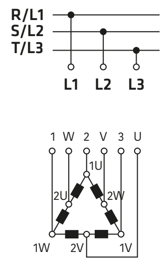


REVERSING-DAHLANDER POLE CHANGING TWO SPEED SWITCH

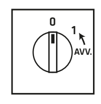

45°

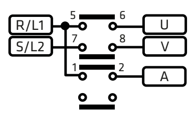


WAF.	CONT.	2	0	1	0	1	0	2
6	23-24	X						X
	21-22			X		X		
5	19-20	X						X
	17-18	X						X
4	15-16			X		X		
	13-14			X		X		
3	11-12	X						X
	9-10	X						X
2	7-8					X		X
	5-6	X		X				
1	3-4	X		X				
	1-2					X		X

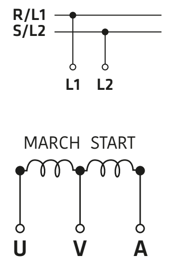


STARTER WITH SINGLE PHASE WITH AUXILIARY PHASE

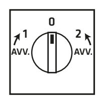

45°

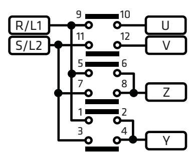


WAF.	CONT.	0	1	AVV.
2	7-8		X	X
	5-6		X	X
1				
	1-2			X

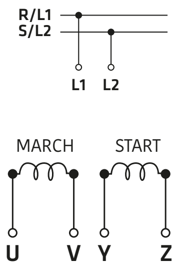


REVERSING-STARTER SWITCH SINGLE PHASE WITH AUXILIARY PHASE

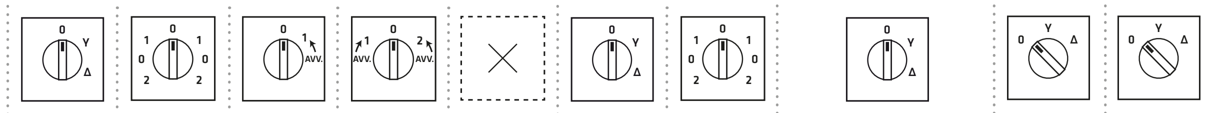

45°



WAF.	CONT.	AVV.	1	0	2	AVV.
3	11-12	X	X		X	X
	9-10	X	X		X	X
2	7-8					X
	5-6	X				
1	3-4	X	X			
	1-2				X	X



SERIES	AC21A	STAR-DELTA STARTER SWITCH	REVERSING-DAHLANDER POLE CHANGING TWO SPEED SWITCH	STARTER WITH SINGLE PHASE WITH AUXILIARY PHASE	REVERSING-STARTER SWITCH SINGLE PHASE WITH AUXILIARY PHASE
P012	12A	P0120015R	P0120031R	P0120017R	P0120018R
P016	16A	P0160015R	P0160031R	P0160017R	P0160018R
P020	20A	P0200015R	P0200031R	P0200017R	P0200018R
C025	25A	C0250015R	C0250031R	-	-
C032	32A	C0320015R	C0320031R	-	-
C040	40A	C0400015R	C0400031R	-	-
C063	63A	-	-	-	-
C080	80A	-	-	-	-
G125	125A	G1250015R	-	-	-
G200	200A	G2000015R	-	-	-



ACTUATOR	FIXING	P012 - P016 - P020					C025 - C032 C040		C063 - C080	G125	G200
		60°	45°	45°	45°	NO	60°	45°	60°	60°	60°
	screw	001/0015	001/0031	001/0017	001/0018	-	007/0015	007/0031	-	441/0015	461/0015
	ø22	056X/0015	056X/0031	056X/0017	056X/0018	-	-	-	-	-	-
	screw	002/0015	002/0031	002/0017	002/0018	-	008/0015	008/0031	-	-	-
	ø22	-	-	-	-	-	-	-	-	-	-
	screw	003/0015	003/0031	003/0017	003/0018	-	003/0015	003/0031	-	-	-
	ø22	-	-	-	-	-	-	-	-	-	-
	screw	004/0015	004/0031	004/0017	004/0018	-	004/0015	004/0031	-	-	-
	ø22	-	-	-	-	-	-	-	-	-	-
	screw	009/0015	009/0031	009/0031	009/0018	-	009/0015	009/0031	-	-	-
	ø22	-	-	-	-	-	-	-	-	-	-
	screw	010/0015	010/0031	010/0017	010/0018	-	010/0015	010/0031	-	-	-
	ø22	-	-	-	-	-	-	-	-	-	-
	ø22	-	-	-	-	-	-	-	-	-	-
	ø22	-	-	-	-	028X	-	-	-	-	-
	ø22	-	-	-	-	029X	-	-	-	-	-

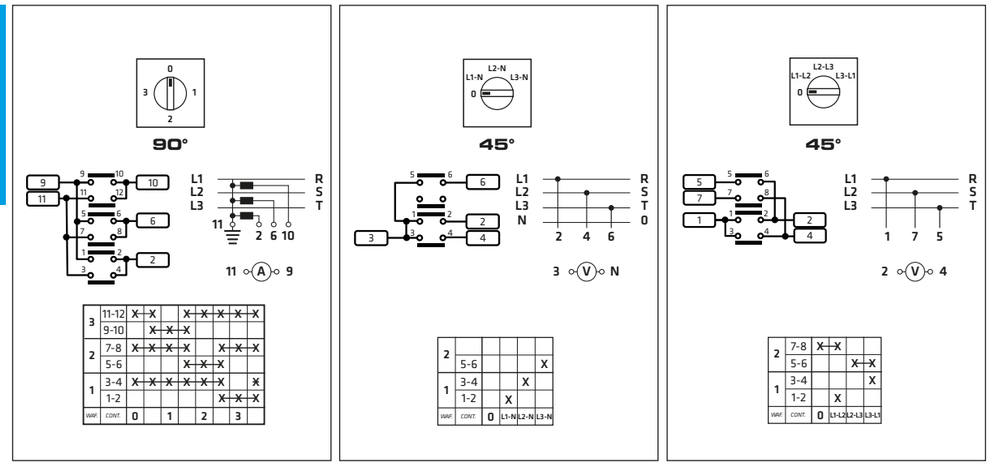
Switches from 12A to 40A: replace the number "0" with letter "X" to order the open terminal protection (es. P012... > PX12...). See to page 8.

◢ UL50 NEMA Type 1-4-4X ◢ Key removable at 0° and 180° ◢ Body mounting rotated by 90°

REAR PANEL MOUNTING

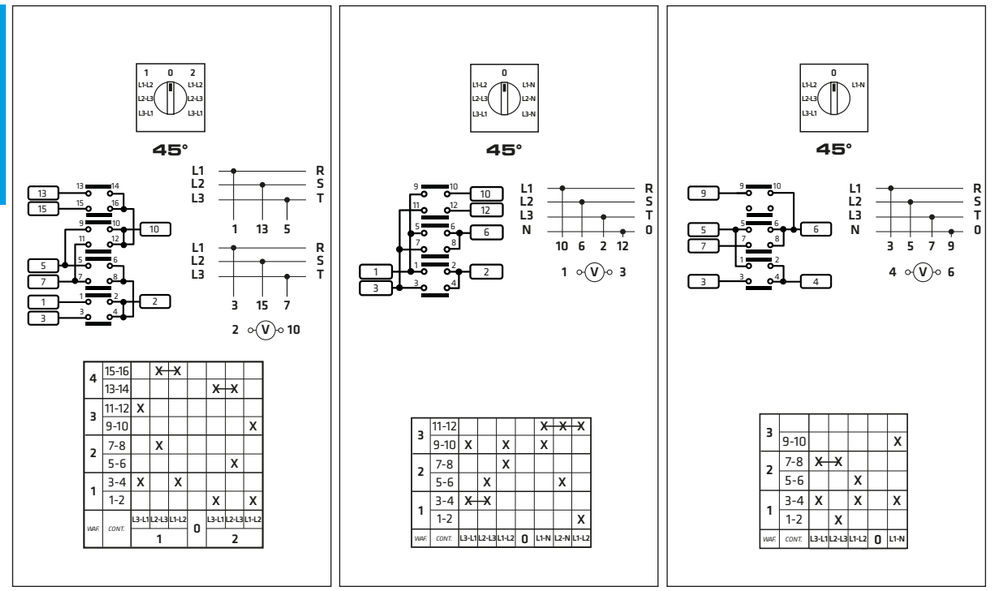
PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

12-16-20A



SERIES	AC21A	AMMETER SELECTOR SWITCH 1 POLE FOR 3 CURRENT TRANSFORMERS	VOLTMETER SELECTOR SWITCH PHASE-NEUTRAL	VOLTMETER SELECTOR SWITCH PHASE-PHASE
P012	12A	P0120019R	P0120020R	P0120021R
P016	16A	P0160019R	P0160020R	P0160021R
P020	20A	P0200019R	P0200020R	P0200021R

12-16-20A



SERIES	AC21A	VOLTMETER SELECTOR SWITCH PHASE-PHASE FOR TWO CIRCUITS	VOLTMETER SELECTOR SWITCH PHASE-PHASE AND PHASE-NEUTRAL	VOLTMETER SELECTOR SWITCH PHASE-PHASE AND 1 PHASE-NEUTRAL
P012	12A	P0120022R	P0120023R	P0120024R
P016	16A	P0160022R	P0160023R	P0160024R
P020	20A	P0200022R	P0200023R	P0200024R

ACTUATOR	FIXING	P012 - P016 - P020						
		90°	45°	45°	45°	45°	45°	NO
	screw	001/0019	001/0020	001/0021	001/0022	001/0023	001/0024	-
	ø22	056X/0019	056X/0020	056X/0021	056X/0022	056X/0023	056X/0024	-
	screw	-	-	-	-	-	-	-
	ø22	-	-	-	-	-	-	-
	screw	-	-	-	-	-	-	-
	ø22	-	-	-	-	-	-	-
	screw	-	-	-	-	-	-	-
	ø22	-	-	-	-	-	-	-
	screw	-	-	-	-	-	-	-
	ø22	-	-	-	-	-	-	-
	screw	-	-	-	-	-	-	-
	ø22	-	-	-	-	-	-	-
	ø22	-	-	-	-	-	-	-
	ø22	-	-	-	-	-	-	028X
	ø22	-	-	-	-	-	-	029X

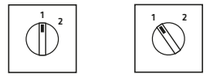
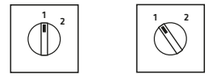
Key removable at 0° and 180°

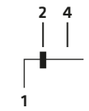
REAR PANEL MOUNTING

PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

12-16-20A

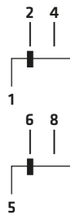
45° 60° G125 G200



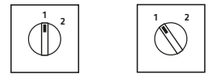
25-32-40A

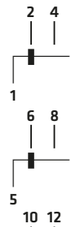
45° 60° G125 G200



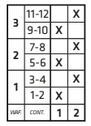
63-80A

45° 60° G125 G200





125A



200A

ACTUATOR	FIXING	P012 - P016 - P020 45°	P012 - P016 - P020 NO	C025 C032 C040 45°	C063 C080 45°	G125 60°	G200 60°
	screw	001/0025	-	007/0025	201/0025	441/0025	461/0025
	ø22	056X/0025	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	ø22	-	028X	-	-	-	-
	ø22	-	029X	-	-	-	-

SERIES	AC21A	1 POLE	2 POLES	3 POLES
P012	12A	P0120025R	P0120026R	P0120027R
P016	16A	P0160025R	P0160026R	P0160027R
P020	20A	P0200025R	P0200026R	P0200027R
C025	25A	C0250025R	C0250026R	C0250027R
C032	32A	C0320025R	C0320026R	C0320027R
C040	40A	C0400025R	C0400026R	C0400027R
C063	63A	C0630025R	C0630026R	C0630027R
C080	80A	C0800025R	C0800026R	C0800027R
G125	125A	G1250025R	G1250026R	G1250027R
G200	200A	G2000025R	G2000026R	G2000027R

Switches from 12A to 40A: replace the number "0" with letter "X" to order the open terminal protection (es. P012... > PX12...). See to page 8.

Key removable at 0° and 180°

REAR PANEL MOUNTING

PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

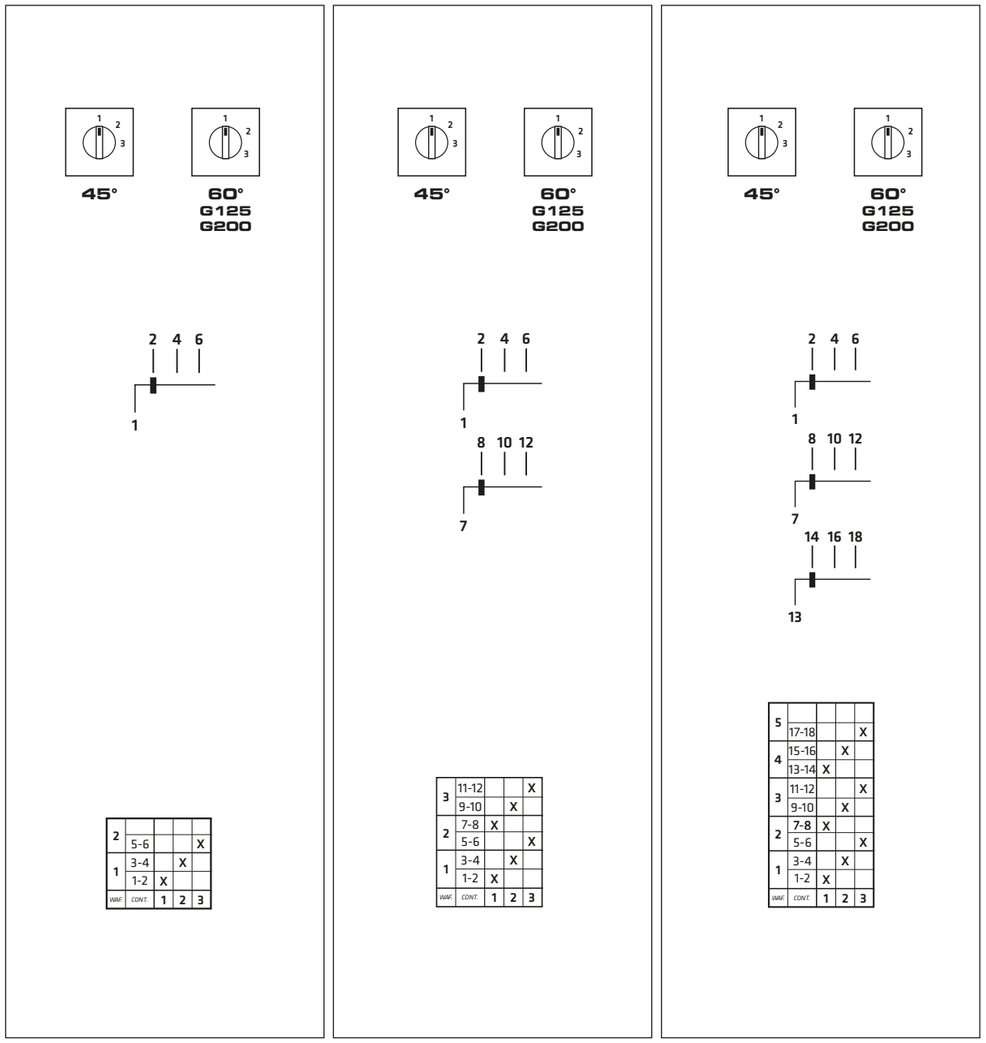
12-16-20A

25-32-40A

63-80A

125A

200A



SERIES	AC21A	1 POLE	2 POLES	3 POLES
P012	12A	P0120038R	P0120039R	P0120040R
P016	16A	P0160038R	P0160039R	P0160040R
P020	20A	P0200038R	P0200039R	P0200040R
C025	25A	C0250038R	C0250039R	C0250040R
C032	32A	C0320038R	C0320039R	C0320040R
C040	40A	C0400038R	C0400039R	C0400040R
C063	63A	C0630038R	C0630039R	C0630040R
C080	80A	C0800038R	C0800039R	C0800040R
G125	125A	G1250038R	G1250039R	G1250040R
G200	200A	G2000038R	G2000039R	G2000040R

ACTUATOR	FIXING	P012 - P016 - P020		C025 C032 C040	C063 C080	G125	G200
		45°	NO	45°	45°	60°	60°
	screw	001/0038	-	007/0038	201/0038	441/0038	461/0038
	ø22	056X/0038	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	ø22	-	028X	-	-	-	-
	ø22	-	029X	-	-	-	-

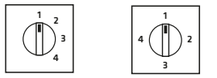
Switches from 12A to 40A: replace the number "0" with letter "X" to order the open terminal protection (es. P012... > PX12...). See to page 8.

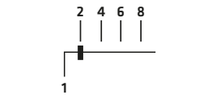
Key removable at 0° and 180°

REAR PANEL MOUNTING

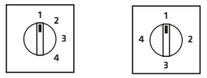
PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

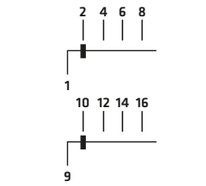
12-16-20A

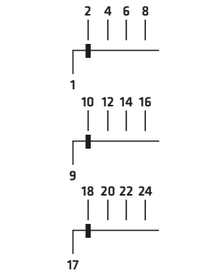




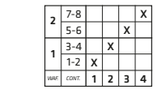
25-32-40A



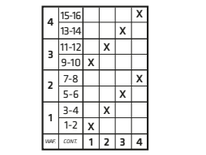




125A

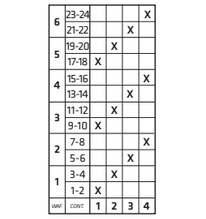


2	7-8					X
	5-6				X	
1	3-4			X		
	1-2	X				
MAKE	CONT.	1	2	3	4	



4	15-16					X
	13-14				X	
3	11-12			X		
	9-10	X				
2	7-8					X
	5-6				X	
1	3-4			X		
	1-2	X				
MAKE	CONT.	1	2	3	4	

200A



6	23-24					X
	21-22				X	
5	19-20			X		
	17-18	X				
4	15-16					X
	13-14				X	
3	11-12			X		
	9-10	X				
2	7-8					X
	5-6				X	
1	3-4			X		
	1-2	X				
MAKE	CONT.	1	2	3	4	

SERIES	AC21A	1 POLE	2 POLES	3 POLES
P012	12A	P0120041R	P0120042R	P0120043R
P016	16A	P0160041R	P0160042R	P0160043R
P020	20A	P0200041R	P0200042R	P0200043R
C025	25A	C0250041R	C0250042R	C0250043R
C032	32A	C0320041R	C0320042R	C0320043R
C040	40A	C0400041R	C0400042R	C0400043R
C063	63A	-	-	-
C080	80A	-	-	-
G125	125A	G1250041R	G1250042R	G1250043R
G200	200A	G2000041R	G2000042R	G2000043R

ACTUATOR	FIXING	P012 - P016 - P020		C025 C032 C040	C063 C080	G125	G200
		45°	NO	45°	-	90°	90°
	screw	001/0041	-	007/0041	-	441/0041	461/0041
	ø22	056X/0041	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	ø22	-	028X	-	-	-	-
	ø22	-	029X◢	-	-	-	-

Switches from 12A to 40A: replace the number "0" with letter "X" to order the open terminal protection (es. P012... > PX12...). See to page 8.

◢ Key removable at 0° and 180°

REAR PANEL MOUNTING

PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

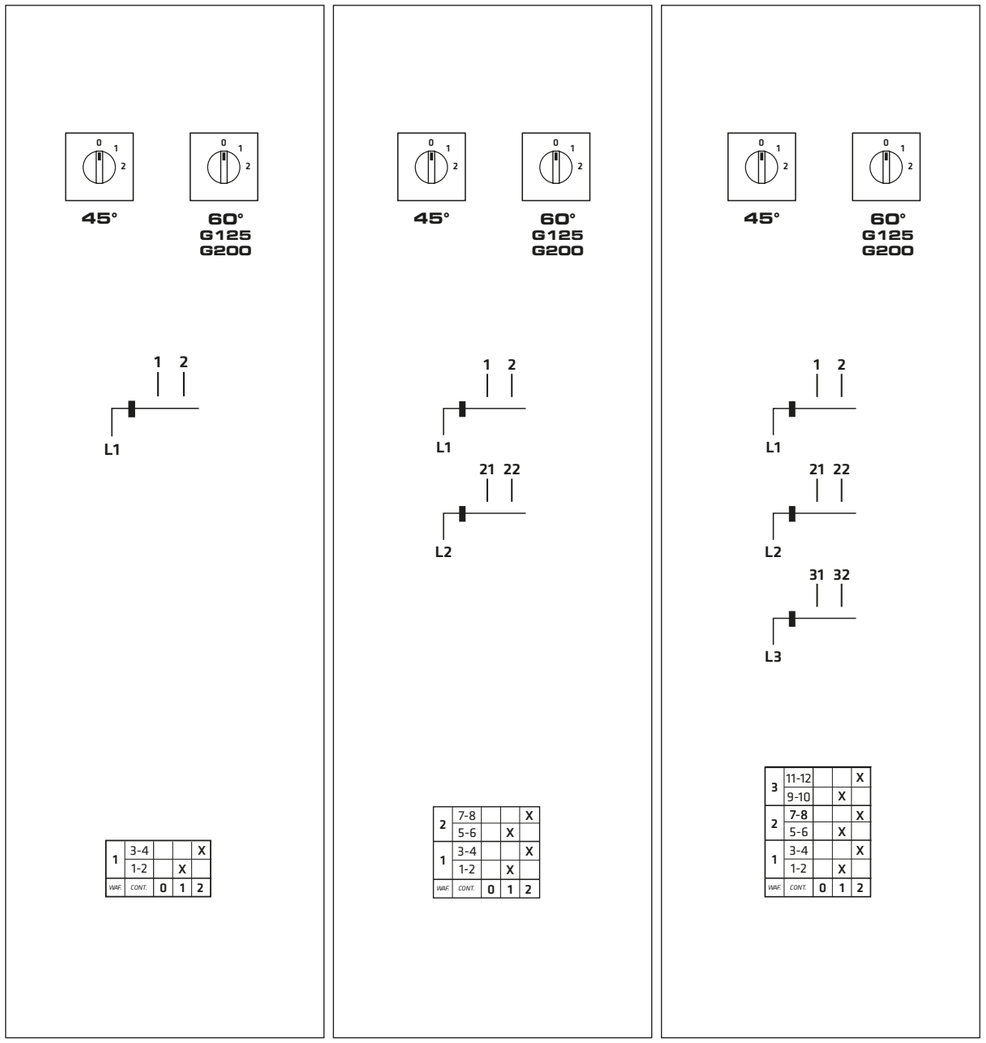
12-16-20A

25-32-40A

63-80A

125A

200A



SERIES	AC21A	1 POLE	2 POLES	3 POLES
P012	12A	P0120028R	P0120032R	P0120033R
P016	16A	P0160028R	P0160032R	P0160033R
P020	20A	P0200028R	P0200032R	P0200033R
C025	25A	C0250028R	C0250032R	C0250033R
C032	32A	C0320028R	C0320032R	C0320033R
C040	40A	C0400028R	C0400032R	C0400033R
C063	63A	C0630028R	C0630032R	C0630033R
C080	80A	C0800028R	C0800032R	C0800033R
G125	125A	G1250028R	G1250032R	G1250033R
G200	200A	G2000028R	G2000032R	G2000033R

ACTUATOR	FIXING	P012 - P016 - P020		C025 C032 C040	C063 C080	G125	G200
		45°	NO	45°	45°	60°	60°
	screw	001/0028	-	007/0028	201/0028	441/0028	461/0028
	ø22	056X/0028	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	ø22	-	028X	-	-	-	-
	ø22	-	029X ◢	-	-	-	-

Switches from 12A to 40A: replace the number “0” with letter “X” to order the open terminal protection (es. P012... > PX12...). See to page 8.

◢ Key removable at 0° and 180°

REAR PANEL MOUTNING

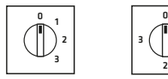
PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

12-16-20A

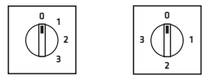
25-32-40A

125A

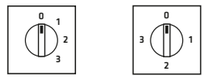
200A



2	7-8				X
	5-6		X		
1					
	1-2			X	
WAF.	CONT.	0	1	2	3



3	11-12				X
	9-10		X		
2	7-8			X	
	5-6			X	
1	3-4				X
	1-2		X		
WAF.	CONT.	0	1	2	3



5	19-20			X	
4	15-16				X
	13-14		X		
3	11-12				X
	9-10		X		
2	7-8			X	
	5-6			X	
1	3-4				X
	1-2		X		
WAF.	CONT.	0	1	2	3

SERIES	AC21A	1 POLE	2 POLES	3 POLES
P012	12A	P0120029R	P0120034R	P0120035R
P016	16A	P0160029R	P0160034R	P0160035R
P020	20A	P0200029R	P0200034R	P0200035R
C025	25A	C0250029R	C0250034R	C0250035R
C032	32A	C0320029R	C0320034R	C0320035R
C040	40A	C0400029R	C0400034R	C0400035R
C063	63A	-	-	-
C080	80A	-	-	-
G125	125A	G1250029R	G1250034R	G1250035R
G200	200A	G2000029R	G2000034R	G2000035R

ACTUATOR	FIXING	P012 - P016 - P020		C025 C032 C040	C063 C080	G125	G200
		45°	NO	45°	-	90°	90°
	screw	001/0029	-	007/0029	-	441/0029	461/0029
	ø22	056X/0029	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	ø22	-	028X	-	-	-	-
	ø22	-	029X	-	-	-	-

Switches from 12A to 40A: replace the number “0” with letter “X” to order the open terminal protection (es. P012... > PX12...). See to page 8.

Key removable at 0° and 180°

REAR PANEL MOUNTING

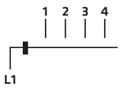
PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

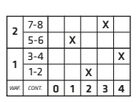
12-16-20A

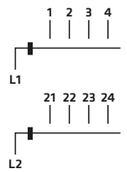
25-32-40A

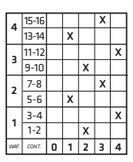
125A

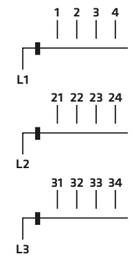
200A

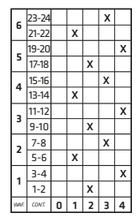












SERIES	AC21A	1 POLE	2 POLES	3 POLES
P012	12A	P0120030R	P0120036R	P0120037R
P016	16A	P0160030R	P0160036R	P0160037R
P020	20A	P0200030R	P0200036R	P0200037R
C025	25A	C0250030R	C0250036R	C0250037R
C032	32A	C0320030R	C0320036R	C0320037R
C040	40A	C0400030R	C0400036R	C0400037R
C063	63A	-	-	-
C080	80A	-	-	-
G125	125A	G1250030R	G1250036R	G1250037R
G200	200A	G2000030R	G2000036R	G2000037R

ACTUATOR	FIXING	P012 - P016 - P020		C025 C032 C040	C063 C080	G125	G200
		45°	NO	45°	-	60°	60°
	screw	001/0030	-	007/0030	-	441/0030	461/0030
	ø22	056X/0030	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	screw	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	ø22	-	-	-	-	-	-
	ø22	-	028X	-	-	-	-
	ø22	-	029X	-	-	-	-

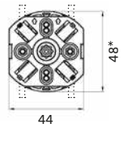
Switches from 12A to 40A: replace the number “0” with letter “X” to order the open terminal protection (es. P012... > PX12...). See to page 8.

Key removable at 0° and 180°

DIMENSIONS AND DRILLING PLAN | TYPE R

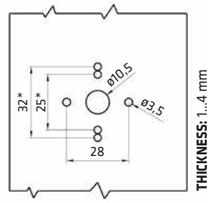
REAR PANEL MOUNTING | ACTUATORS SCREW FIXING

12-16-20A

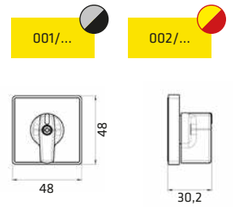


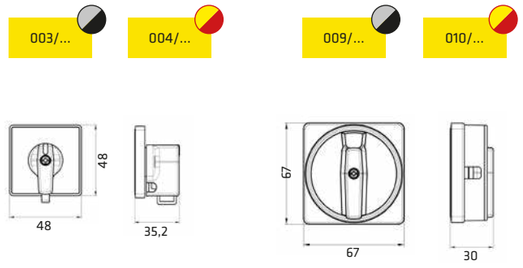
WAFER GAP	L x WAFER N°					
	1	2	3	4	5	6
12,7	37,4	50,1	62,8	75,5	88,2	100.9

* If cam switch is provided of external bridge (wafer to wafer) the height will be increased of ~ 2 mm for the lower and upper sides.

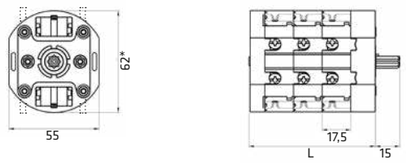


FIXING:
Captive M3 bolt - 28 mm
* ALTERNATIVE FIXING
Screwplast 25 or 32 mm



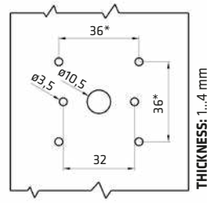


25-32-40A

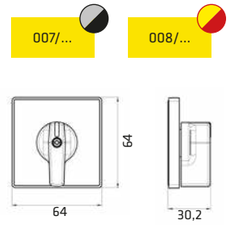


WAFER GAP	L x WAFER N°					
	1	2	3	4	5	6
17,5	42,2	59,7	77,2	94,7	112,2	129,7

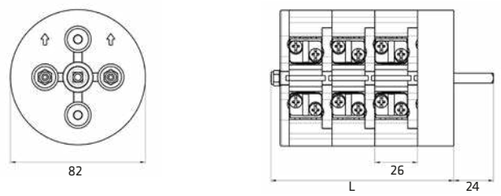
* If cam switch is provided of external bridge (wafer to wafer) the height will be increased of ~ 1 mm for the lower and upper sides.



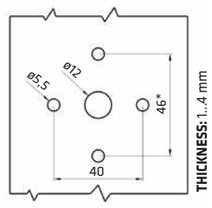
FIXING:
Captive M3 bolt - 32 mm
* ALTERNATIVE FIXING
Screwplast □36 mm



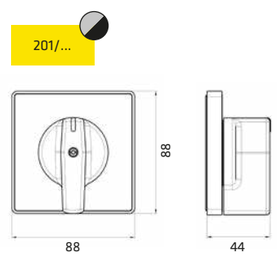
63-80A

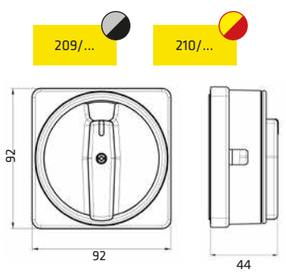


WAFER GAP	L x WAFER N°					
	1	2	3	4	5	6
26	59,1	85,1	111,1	137,1	163	189,1

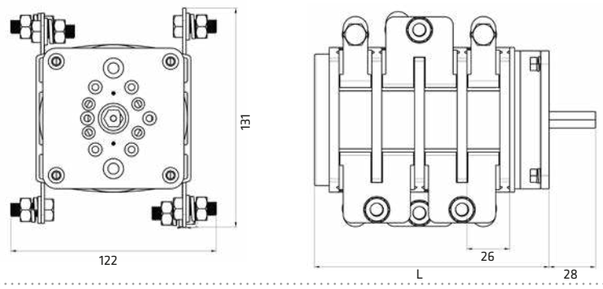


FIXING:
Captive M5 bolt - 40 mm
* ALTERNATIVE FIXING
M5 - 46 mm

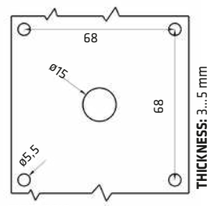




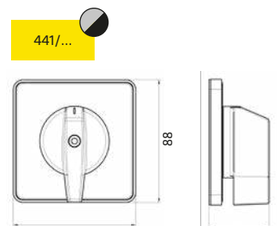
125A

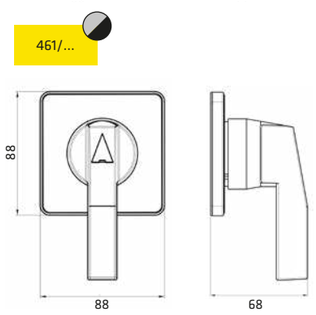


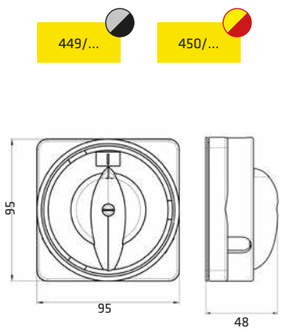
WAFER GAP	L x WAFER N°					
	1	2	3	4	5	6
26	66	92	118	144	170	196



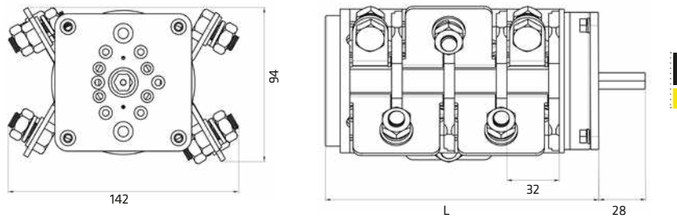
FISSAGGIO:
M5 bolt □68 mm







200A

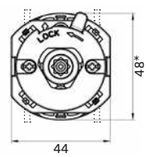


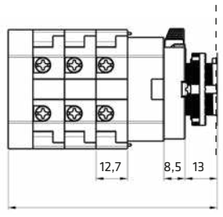
WAFER GAP	L x WAFER N°					
	1	2	3	4	5	6
32	72	104	136	168	200	232

DIMENSIONS AND DRILLING PLAN | TYPE R

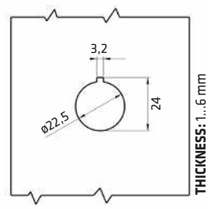
REAR PANEL MOUNTING | ACTUATORS Ø22 FIXING

12-16-20A





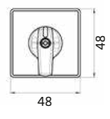
WAFER GAP	PANEL THICKNESS	L x WAFER N°					
		1	2	3	4	5	6
12,7	1 mm	57,9	70,6	83,3	96	108,7	121,4
	2 mm	56,9	69,6	82,3	95	107,7	120,4
	3 mm	55,9	68,6	81,3	94	106,7	119,4
	4 mm	54,9	67,6	80,3	93	105,7	118,4
	5 mm	53,9	66,6	79,3	92	104,7	117,4
	6 mm	52,9	65,6	78,3	91	103,7	116,4



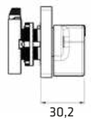
FIXING:
ø22,5 mm

* If cam switch is provided of external bridge (wafer to wafer) the height will be increased of ~ 2 mm for the lower and upper sides.

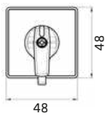
056X/...



058X/...

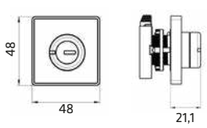


059X/...

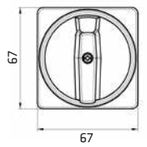


060X/...

057X/...



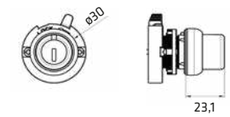
009/...



010/...

028X/...

029X/...



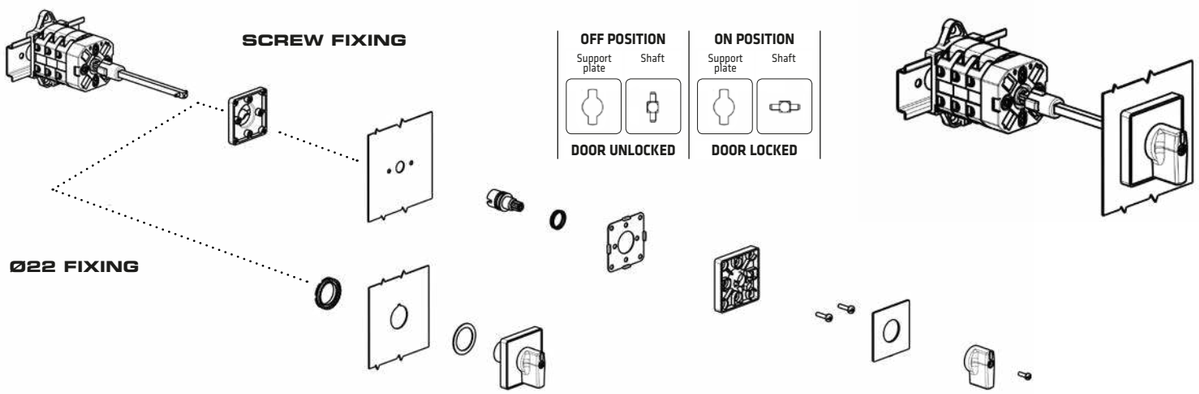
GIOVENZANA
INTERNATIONAL B.V.

PHOENIX CAM SWITCHES
BASE MOUNTING - B

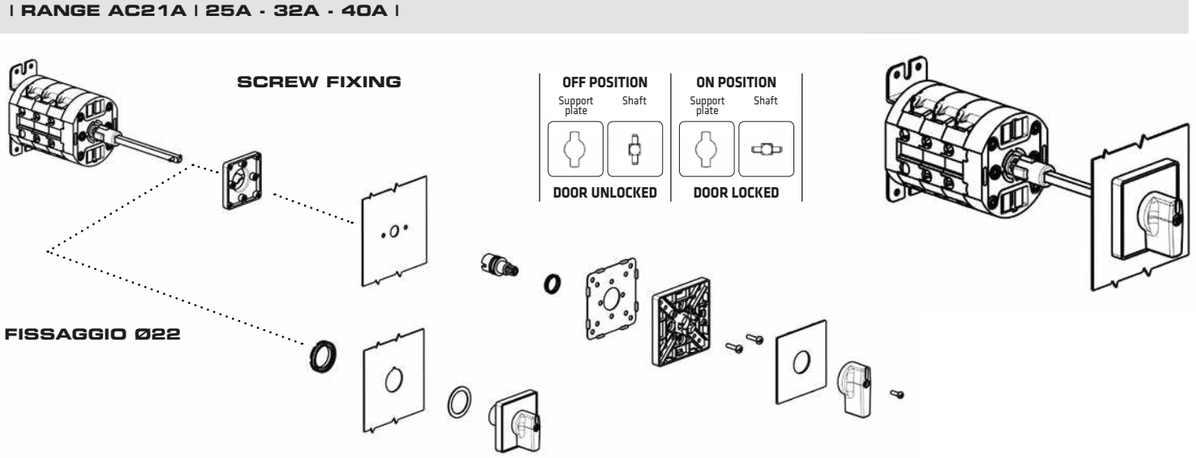
PHOENIX CAM SWITCHES | TYPE B

BASE MOUNTING

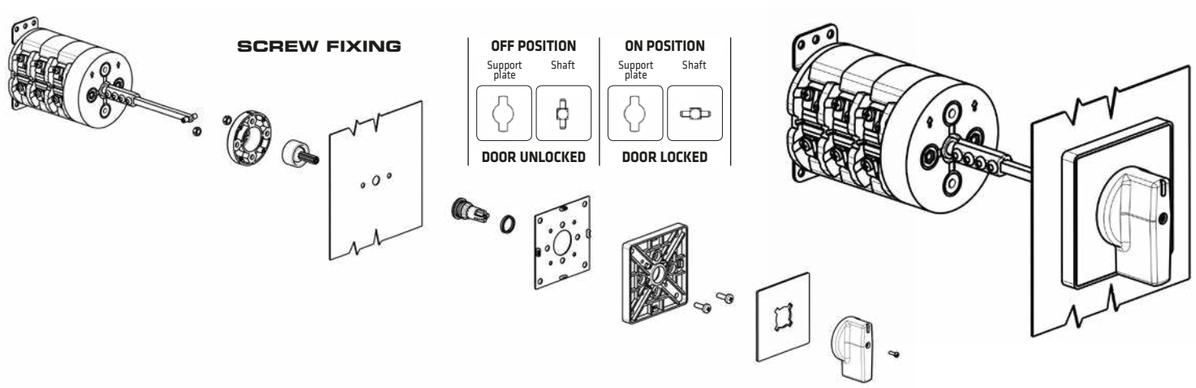
| RANGE AC21A | 12A - 16A - 20A |



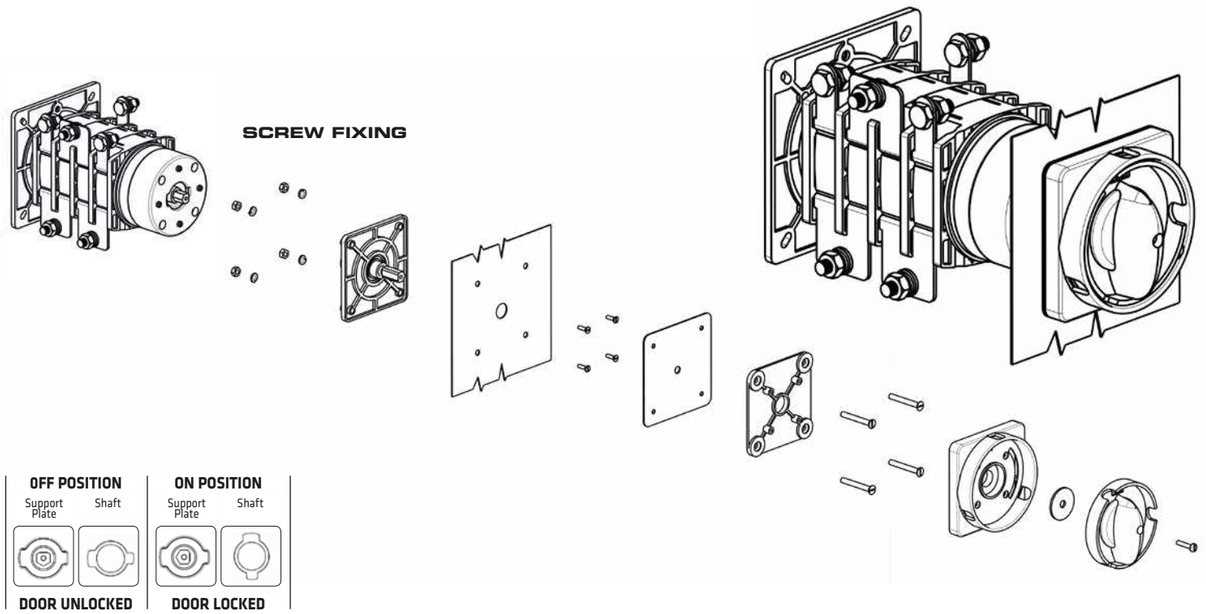
| RANGE AC21A | 25A - 32A - 40A |



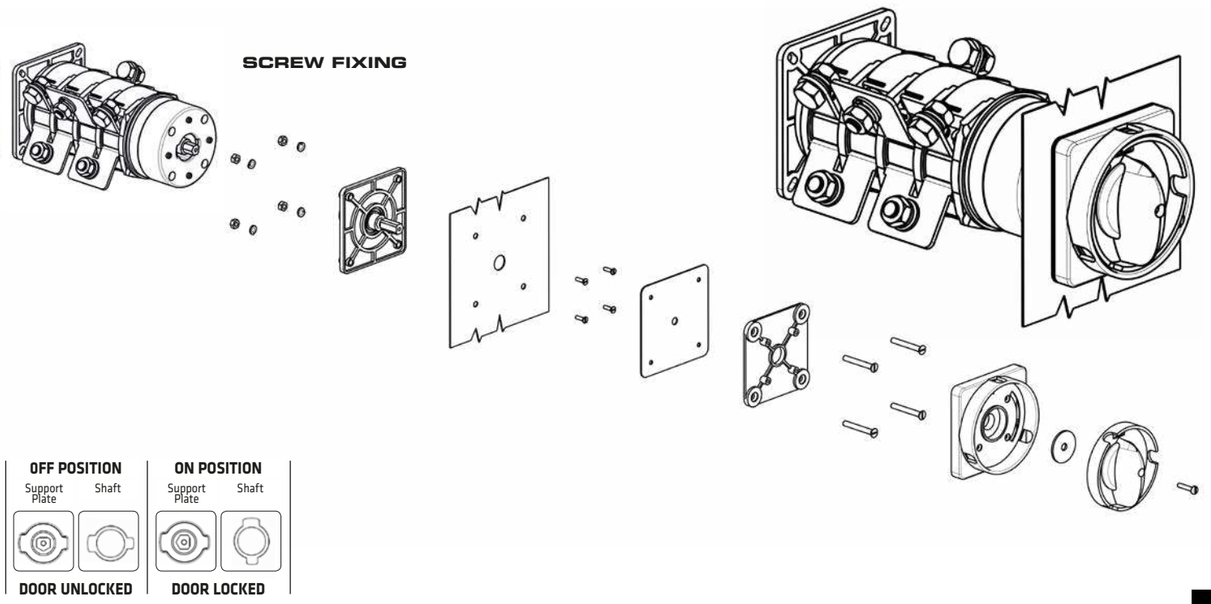
| RANGE AC21A | 63A - 80A |



| RANGE AC21A | 125A |



| RANGE AC21A | 200A |



BASE MOUNTING

PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

12-16-20A

90°

25-32-40A

90°

63-80A

1 3
2 4

90°

125A

1	3-4		X
	1-2		X
WAY.	CONT.	0	1

90°

200A

2			
	5-6		X
1	3-4		X
	1-2		X
WAY.	CONT.	0	1

1 3 5
2 4 6

90°

2	7-8		X
	5-6		X
1	3-4		X
	1-2		X
WAY.	CONT.	0	1

1 3 5 7
2 4 6 8

90°

3	11-12		X
	9-10		X
2	7-8		X
	5-6		X
1	3-4		X
	1-2		X
WAY.	CONT.	0	1

1 3 5 7 9 11
2 4 6 8 10 12

90°

SERIES	AC21A	1 POLE	2 POLES	3 POLES	4 POLES
P012	12A	P0120002B	P0120003B	P0120004B	P0120006B
P016	16A	P0160002B	P0160003B	P0160004B	P0160006B
P020	20A	P0200002B	P0200003B	P0200004B	P0200006B
C025	25A	C0250002B	C0250003B	C0250004B	C0250006B
C032	32A	C0320002B	C0320003B	C0320004B	C0320006B
C040	40A	C0400002B	C0400003B	C0400004B	C0400006B
C063	63A	C0630002B	C0630003B	C0630004B	C0630006B
C080	80A	C0800002B	C0800003B	C0800004B	C0800006B
G125	125A	G1250002B	G1250003B	G1250004B	G1250006B
G200	200A	G2000002B	G2000003B	G2000004B	G2000006B

ACTUATOR	FIXING	P012 - P016 - P020		C025 - C032 - C040		C063 - C080		G125	G200
		90°	90°	90°	90°	90°	90°	90°	90°
	screw	020/0001	-	021/0001	-	220/0001	-	-	-
	ø22	095/0001	-	095/0001	-	-	-	-	-
	screw	030/0001	-	-	-	-	-	-	-
	ø22	070/0001	-	070/0001	-	-	-	-	-
	screw	005/0001	-	005/0001	-	-	-	-	-
	ø22	077/0001	-	077/0001	-	-	-	-	-
	screw	006/0001	-	006/0001	-	-	-	-	-
	ø22	069/0001	-	069/0001	-	-	-	-	-
	screw	011/0001	011/0001-A	011/0001	011/0001-A	211/0001	211/0001-1	451/0001	451/0001
	ø22	063/0001	063/0001-1	063/0001	063/0001-1	-	-	-	-
	screw	012/0001	012/0001-2	012/0001	012/0001-2	212/0001	212/0001-1	452/0001	452/0001
	ø22	064/0001	064/0001-1	064/0001	064/0001-1	-	-	-	-
DOORLOCK SHAFT		Metallic □5x85mm				Metallic □6x100mm		Direct doorlock coupling (no metallic shaft)	

All base mounting's actuators are equipped with doorlock function that permits to open the door only in "0" position.

UL50 NEMA Type 1-4-4X

Metallic shaft can be cut according customer needs. Longer metallic shaft are available in accessories to page 77.

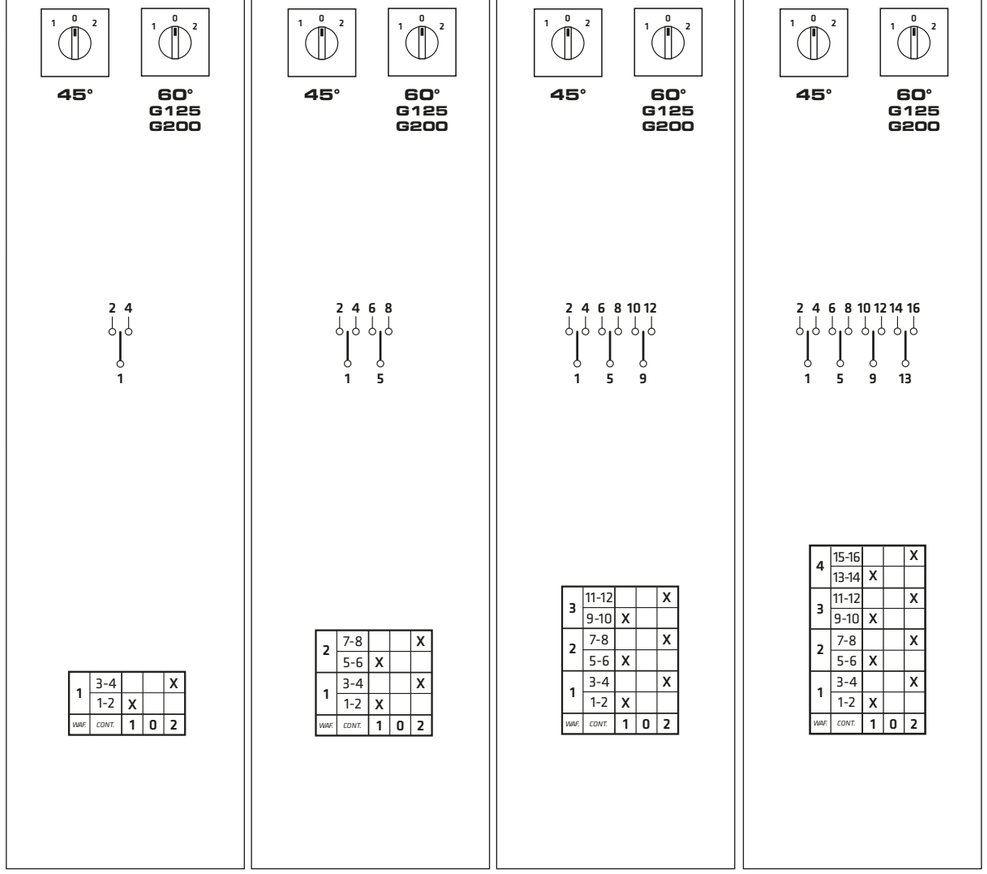
BASE MOUNTING

PROTECTION CLASS EN60529 - IP65 UL50 NEMA TYPE 1-4-4X-12

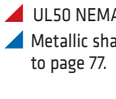
12-16-20A

25-32-40A

63-80A



SERIES	AC21A	1 POLE	2 POLES	3 POLES	4 POLES
P012	12A	P0120008B	P0120009B	P0120010B	P0120011B
P016	16A	P0160008B	P0160009B	P0160010B	P0160011B
P020	20A	P0200008B	P0200009B	P0200010B	P0200011B
C025	25A	C0250008B	C0250009B	C0250010B	C0250011B
C032	32A	C0320008B	C0320009B	C0320010B	C0320011B
C040	40A	C0400008B	C0400009B	C0400010B	C0400011B
C063	63A	C0630008B	C0630009B	C0630010B	C0630011B
C080	80A	C0800008B	C0800009B	C0800010B	C0800011B
G125	125A	-	-	-	-
G200	200A	-	-	-	-

ACTUATOR	FIXING	P012 P016 P020	C025 C032 C040	C063 - C080	G125	G200
		45°	45°	45°	60°	60°
	screw	020/0008	021/0008	220/0008	-	-
	ø22	095/0008	095/0008	-	-	-
	screw	030/0008	-	-	-	-
	ø22	070/0008	070/0008	-	-	-
	screw	005/0008	005/0008	-	-	-
	ø22	077/0008	077/0008	-	-	-
	screw	006/0008	006/0008	-	-	-
	ø22	069/0008	069/0008	-	-	-
	screw	011/0008	011/0008	211/0008	-	-
	ø22	063/0008	063/0008	-	-	-
	screw	012/0008	012/0008	212/0008	-	-
	ø22	064/0008	064/0008	-	-	-
DOORLOCK SHAFT						
		Metallic □5x85mm		Metallic □6x100mm	Direct doorlock coupling (no metallic shaft)	

All base mounting's actuators are equipped with Doorlock function that permits to open the door only in "0" position.

Switches from 12A to 40A: replace the number "0" with letter "X" to order the open terminal protection (es. P012... > PX12...). See to page 8.

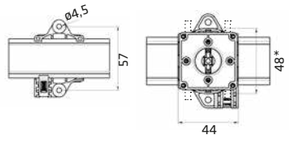
UL50 NEMA Type 1-4-4X

Metallic shaft can be cut according customer needs. Longer metallic shaft are available in accessories to page 77.

DIMENSIONS AND DRILLING PLAN | TYPE B

BASE MOUNTING | ACTUATORS SCREW FIXING

12-16-20A

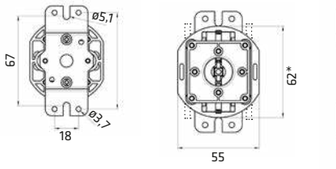


WAFER GAP	L x WAFER N°	1	2	3	4	5	6
12,7	min*	80,4	93,1	105,8	118,5	131,2	143,9
	max	138,4	151,1	163,8	176,5	189,2	201,9

* Minimum lenght with cut shaft.

* If cam switch is provided of external bridge (wafer to wafer) the height will be increased of ~ 2 mm for the lower and upper sides.

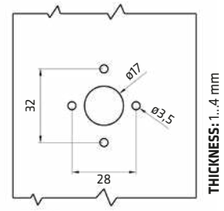
25-32-40A



WAFER GAP	L x WAFER N°	1	2	3	4	5	6
17,5	min*	96	113,5	131	148,5	166	183,5
	max	154	171,5	189	206,5	224	241,5

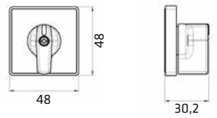
* Minimum lenght with cut shaft.

* If cam switch is provided of external bridge (wafer to wafer) the height will be increased of ~ 1 mm for the lower and upper sides.

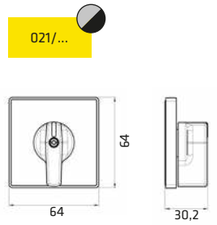


FIXING:
Screwplast 28 or 32 mm

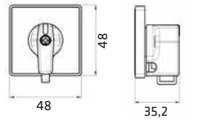
020/... 030/...



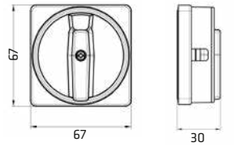
021/...



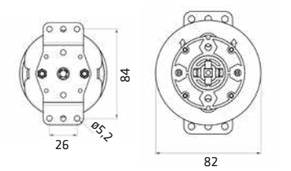
005/... 006/...



011/... 012/...

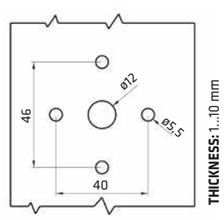


63-80A



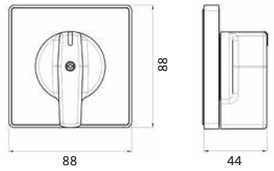
WAFER GAP	L x WAFER N°	1	2	3	4	5	6
26	min*	148	174	200	226	252	278
	max	196	222	248	274	300	376

* Minimum lenght with cut shaft.

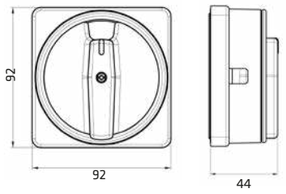


FIXING:
Screwplast 40 or 46 mm

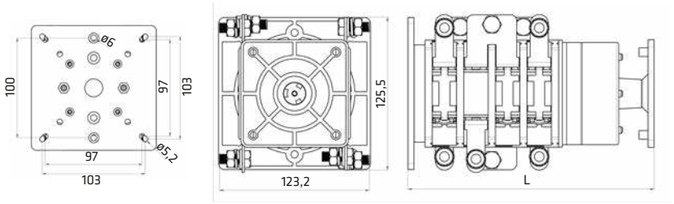
220/...



211/... 212/...



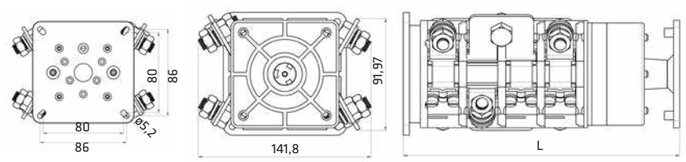
125A



WAFER GAP	L x WAFER N°	1	2	3	4	5	6
26		125	151	177	203	229	255

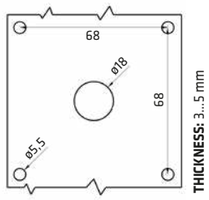
* Direct doorlock coupling bloccoporta (no metallic shaft).

200A



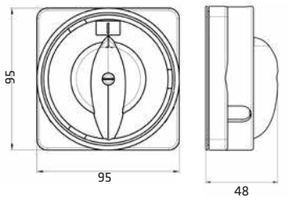
WAFER GAP	L x WAFER N°	1	2	3	4	5	6
32		131	163	195	227	259	291

* Direct doorlock coupling bloccoporta (no metallic shaft).



FIXING:
M5 bolt □68 mm

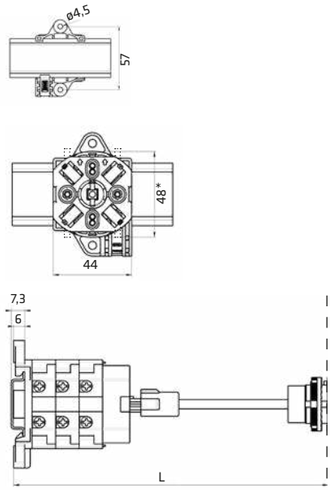
451/... 452/...



DIMENSIONS AND DRILLING PLAN | TYPE B

BASE MOUNTING | ACTUATORS Ø22 FIXING

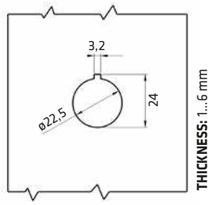
12-16-20A



WAFER GAP	PANEL THICKNESS	L x WAFER N°						
			1	2	3	4	5	6
12,7	1 mm	min*	84,2	96,9	109,6	122,3	135	147,7
		max	143,7	156,4	169,1	181,8	194,5	207,2
	2 mm	min*	83,2	95,9	108,6	121,3	134	146,7
		max	142,7	155,4	168,1	180,8	193,5	206,2
	3 mm	min*	82,2	94,9	107,6	120,3	133	145,7
		max	141,7	154,4	167,1	179,8	192,5	205,2
	4 mm	min*	81,2	93,9	106,6	119,3	132	144,7
		max	140,7	153,4	166,1	178,8	191,5	204,2
	5 mm	min*	80,2	92,9	105,6	118,3	131	143,7
		max	139,7	152,4	165,1	177,8	190,5	203,2
	6 mm	min*	78,2	91,9	104,6	117,3	130	142,7
		max	138,7	151,4	164,1	176,8	189,5	202,2

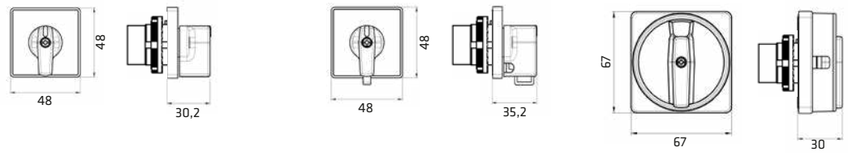
* Minimum lenght with cut shaft.

* If cam switch is provided of external bridge (wafer to wafer) the height will be increased of ~ 2 mm for the lower and upper sides.

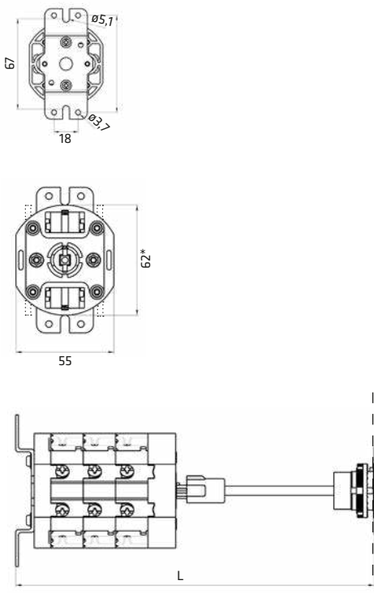


FIXING:
ø22,5 mm

095X/... 070X/... 077X/... 069X/... 063X/... 064X/...



25-32-40A



WAFER GAP	PANEL THICKNESS	L x WAFER N°						
			1	2	3	4	5	6
17,5	1 mm	min*	93,8	115,8	133,3	150,8	168,3	185,8
		max	157,8	175,3	192,8	210,3	227,8	245,3
	2 mm	min*	97,3	114,8	132,3	149,8	167,3	184,8
		max	156,8	174,3	191,8	209,3	226,8	244,3
	3 mm	min*	96,3	113,8	131,3	148,8	166,3	183,8
		max	155,8	173,3	190,8	208,3	225,8	243,3
	4 mm	min*	95,3	112,8	130,3	147,8	165,3	182,8
		max	154,8	172,3	189,8	207,3	224,8	242,3
	5 mm	min*	94,3	111,8	129,3	146,8	164,3	181,8
		max	153,8	171,8	188,8	206,3	223,8	241,3
	6 mm	min*	93,3	110,8	128,3	145,8	163,3	180,8
		max	152,8	170,3	187,8	205,3	222,8	240,3

* Minimum lenght with cut shaft.

* If cam switch is provided of external bridge (wafer to wafer) the height will be increased of ~ 1 mm for the lower and upper sides.

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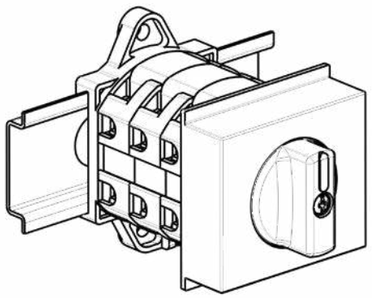
PHOENIX CAM SWITCHES
DIN MOUNTING - D

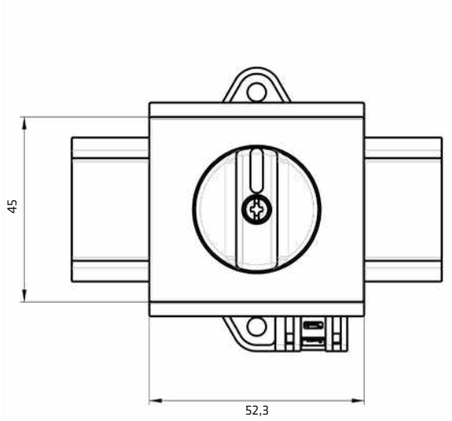
DIN MOUNTING 46 mm

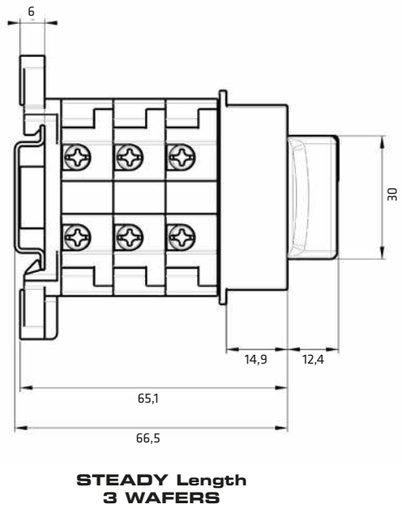
Only switches DIN rail mounting 46 mm standard boxes

| RANGE AC21A | 12A - 16A - 20A |

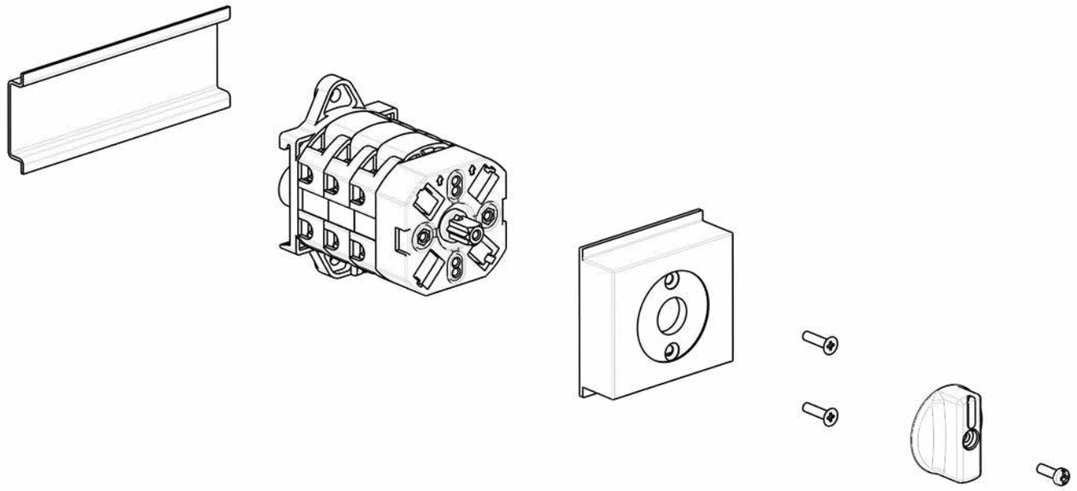
DIN EN46277/3

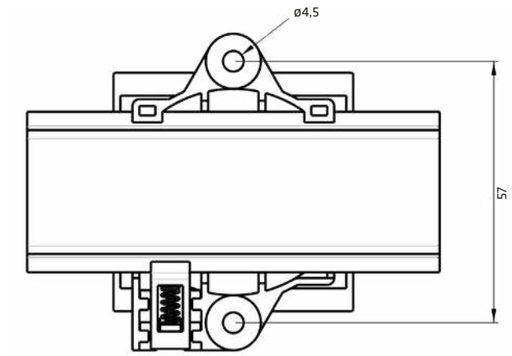






STEADY Length
3 WAFERS





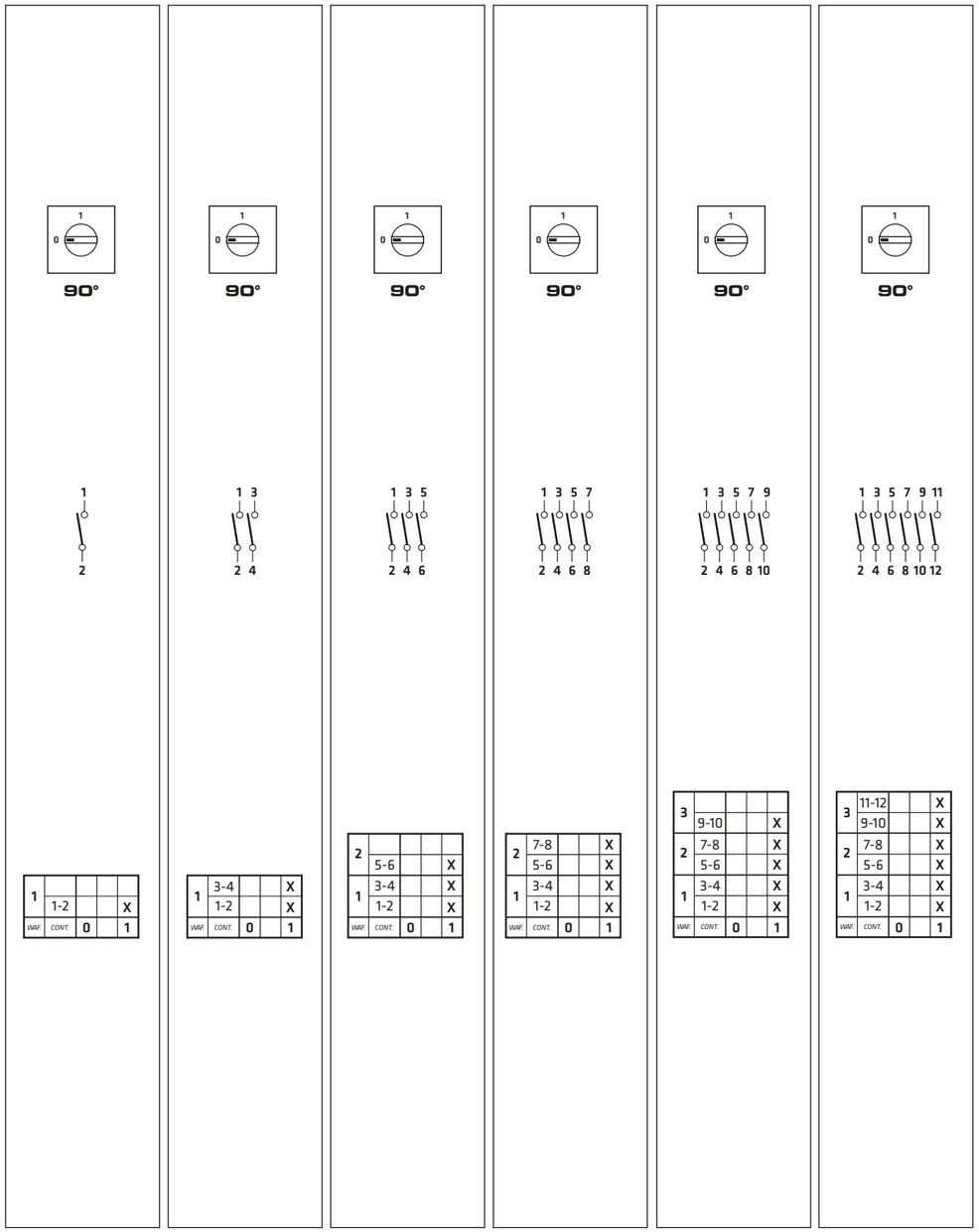
ADDITIONAL FIXING HOLES

DIN RAIL SNAP-ON MOUNTING EN46277/3

DIN MOUNTING 46 mm

Only switches DIN rail mounting 46 mm standard boxes

12-16-20A



1						
	1-2			X		
WAF.	CONT.	0		1		

1	3-4			X		
	1-2			X		
WAF.	CONT.	0		1		

2						
	5-6			X		
1	3-4			X		
	1-2			X		
WAF.	CONT.	0		1		

2	7-8			X		
	5-6			X		
1	3-4			X		
	1-2			X		
WAF.	CONT.	0		1		

3						
	9-10			X		
2	7-8			X		
	5-6			X		
1	3-4			X		
	1-2			X		
WAF.	CONT.	0		1		

3	11-12			X		
	9-10			X		
2	7-8			X		
	5-6			X		
1	3-4			X		
	1-2			X		
WAF.	CONT.	0		1		

SERIES	AC21A	1 POLE	2 POLES	3 POLES	4 POLES	5 POLES	6 POLES
P012	12A	P0120001D	P0120002D	P0120003D	P0120004D	P0120005D	P0120006D
P016	16A	P0160001D	P0160002D	P0160003D	P0160004D	P0160005D	P0160006D
P020	20A	P0200001D	P0200002D	P0200003D	P0200004D	P0200005D	P0200006D

ACTUATOR	P012 - P016 - P020	
	90°	90°
	-	027/0001

DIN MOUNTING 46 mm

Only switches DIN rail mounting 46 mm standard boxes

12-16-20A

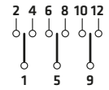
45°

1	3-4			X
	1-2	X		
WAF.	*CONT.*	1	0	2

45°

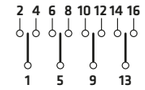
2	7-8			X
	5-6	X		
1	3-4			X
	1-2	X		
WAF.	*CONT.*	1	0	2

45°



3	11-12			X
	9-10	X		
2	7-8			X
	5-6	X		
1	3-4			X
	1-2	X		
WAF.	*CONT.*	1	0	2

45°



4	15-16			X
	13-14	X		
3	11-12			X
	9-10	X		
2	7-8			X
	5-6	X		
1	3-4			X
	1-2	X		
WAF.	*CONT.*	1	0	2

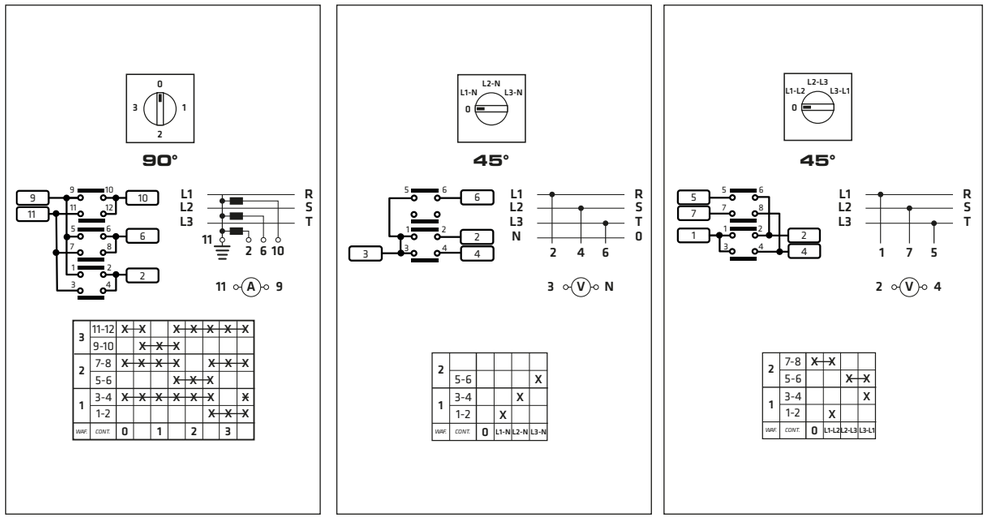
SERIES	AC21A	1 POLE	2 POLES	3 POLES	4 POLES
P012	12A	P0120008D	P0120009D	P0120010D	P0120011D
P016	16A	P0160008D	P0160009D	P0160010D	P0160011D
P020	20A	P0200008D	P0200009D	P0200010D	P0200011D

ACTUATOR	P012 - P016 - P020
	45°
	027/0008

DIN MOUNTING 46 mm

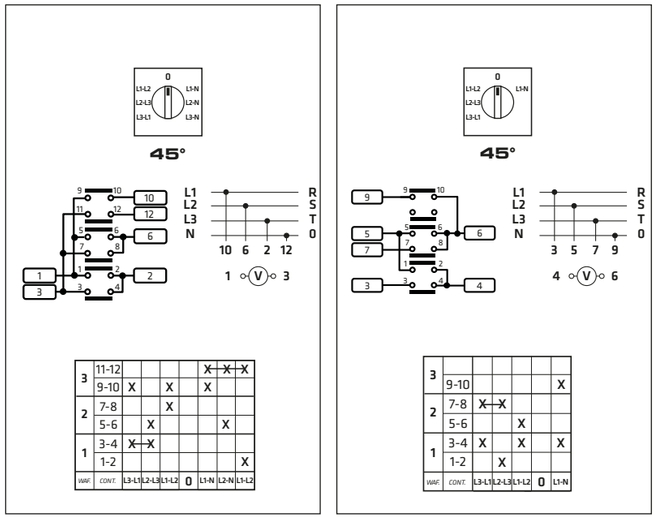
Only switches DIN rail mounting 46 mm standard boxes

12-16-20A



SERIES	AC21A	AMMETER SELECTOR SWITCH 1 POLE FOR 3 CURRENT TRANSFORMERS	VOLTMETER SELECTOR SWITCH PHASE-NEUTRAL	VOLTMETER SELECTOR SWITCH PHASE-PHASE
P012	12A	P0120019D	P0120020D	P0120021D
P016	16A	P0160019D	P0160020D	P0160021D
P020	20A	P0200019D	P0200020D	P0200021D

12-16-20A



SERIES	AC21A	VOLTMETER SELECTOR SWITCH PHASE-PHASE AND PHASE-NEUTRAL	VOLTMETER SELECTOR SWITCH PHASE-PHASE AND 1 PHASE-NEUTRAL
P012	12A	P0120023D	P0120024D
P016	16A	P0160023D	P0160024D
P020	20A	P0200023D	P0200024D

ACTUATOR	P012 - P016 - P020				
	90°	45°	45°	45°	45°
	027/0019	027/0020	027/0021	027/0023	027/0024

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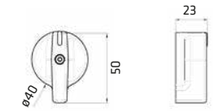
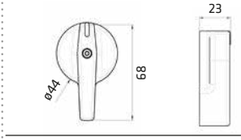
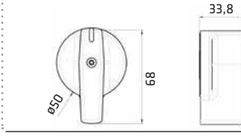
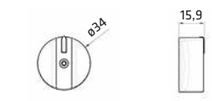
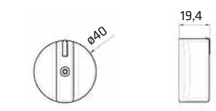
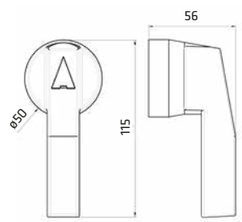
PHOENIX CAM SWITCHES
ACCESSORIES

PHOENIX CAM SWITCHES | ACCESSORIES

KNOBS

SERIES	COLOUR	DIMENSIONS	CODE	PROTECTION CLASS	
P012 ... 20 C025 ... 40	Black	ø40 x L50	072	IP40 *IP65 with gasket	
	Red	ø40 x L50	073	IP40 *IP65 with gasket	
	Black	ø44 x L68	081	IP40 *IP65 with gasket	
	Red	ø44 x L68	110	IP40 *IP65 with gasket	
C063 ... 80	Black	ø50 x L68	218	IP40 *IP65 with gasket	
	Red	ø50 x L68	219	IP40 *IP65 with gasket	

SERIES	COLOUR	DIMENSIONS	CODE	PROTECTION CLASS	
P012 ... 20 C025 ... 40	Black	ø34	018	IP40 *IP65 with gasket	
	Red	ø34	111	IP40 *IP65 with gasket	
	Black	ø40	040	IP40 *IP65 with gasket	
	Red	ø40	112	IP40 *IP65 with gasket	

SERIES	COLOUR	DIMENSIONS	CODE	PROTECTION CLASS	
G125 G200	Black	ø50 xL115	460	-	
	Red	ø50 xL115	470	-	

All knobs are supplied with fixing screws.
* See gaskets to page 76.

PHOENIX CAM SWITCHES | ACCESSORIES

PROTECTIONS

BOOT PROTECTION

SERIES	WAFER	DIAMETER	CODE
P012 P016 P020	Max 3	65	11706031

SERIES	WAFER	DIAMETER	CODE
C025 C032 C040	Max 3	85	20101005

EXTENSION UNIT

SERIES	WAFER	DIAMETER	CODE
P012 P016 P020	2	65	11702038

SERIES	WAFER	DIAMETER	CODE
C025 C032 C040	2	85	11706332

SOFT BOOT PROTECTION

SERIES	WAFER	DIAMETER	CODE
P012 P016 P020	Max 3	65	20101007

GASKETS IP65

SERIES	CODE
P012 P016 P020	2800012

SERIES	CODE
C025 C032 C040	15000015

SERIES	CODE
C063 C080	15010016

FIXING KEY

FIXING KEY Ø 22,5 mm
PCF

SQUARE LONG DOORLOCK SHAFT

□5 mm

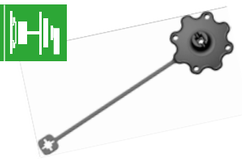
SERIES	L/mm	CODE
P012 P016 P020	185	20401089

SERIES	L/mm	CODE
C025 C032 C040	300	20401164

□6 mm

SERIES	L/mm	CODE
C063 C080	300	20900046

PROTECTION/KNOB FOR DOORLOCK SHAFT □ 5mm

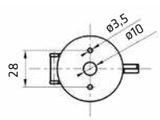


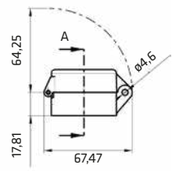
➔ For maintenance operation, used to control the switch while the door is open and give a protection against injury due to doorlock shaft.

SERIES	CODE
12 ... 40	11706094

BYPASS PROTECTIONS ø50 WITH LOCKING FACILITY

SCREW FIXING

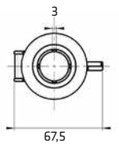


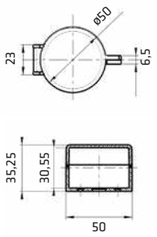


FIXING	CODE
screw*	PPF3-4
ø22	PPF3-5

* Fixing screws are not supplied.

ø22 FIXING





FIXING	CODE
screw*	PPF3-6
ø22	PPF3-7

* Fixing screws are not supplied.

KT ADAPTOR PLATE IP65 □36 / □48

➔ Complete with gasket IP65 and fixing screw.

SERIES	CODE
12 ... 40	KIT 36/48

PHOENIX CAM SWITCHES | ENCLOSURES

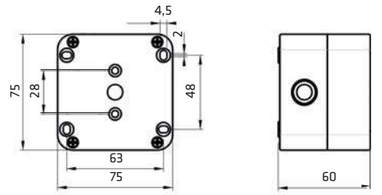
IP65 THERMOPLASTIC ENCLOSURES

PQCOGN

IP65 ☐

- Flat cover
- Front knob
- **Dimensions:** 75x75x60 mm
- Black box - grey cover
- Cable entry: 1xM20 + 1xM16

SERIES	WAFER	CODE
P012 P016 P020	Max 2	PQCOGN

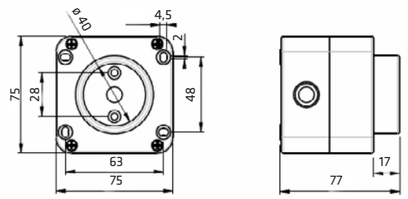


PQCPGN

IP65 ☐

- Protected cover
- Front knob
- **Dimensions:** 75x75x60 mm
- Black box - grey cover
- Cable entry: 1xM20 + 1xM16

SERIES	WAFER	CODE
P012 P016 P020	Max 2	PQCPGN

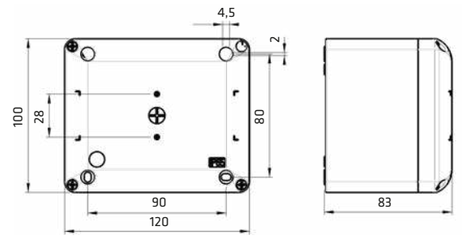


BF1/2NGO

IP65 ☐

- Front knob
- **Dimensions:** 120x100x83 mm
- Black box - grey cover
- Cable entry: 8x knock-out Pg16 (2x on the bottom)

SERIES	WAFER	CODE
P012 P016 P020	Max 3	BF1/2NGO

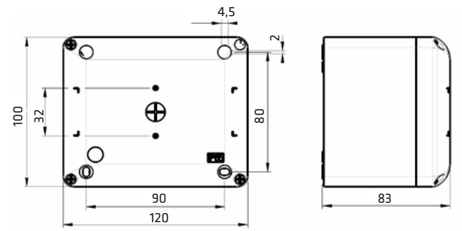


BF1/6NGO

IP65 ☐

- Front knob
- **Dimensions:** 120x100x83 mm
- Black box - grey cover
- Cable entry: 8x knock-out Pg16 (2x on the bottom)

SERIES	WAFER	CODE
C025 C032 C040	Max 2	BF1/6NGO

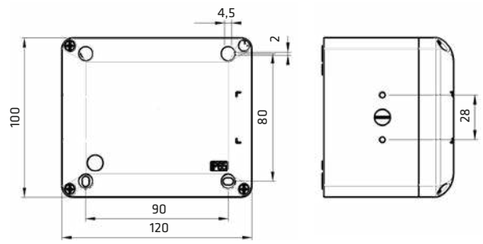


BL1/0NGO

IP65 ☐

- Side knob
- **Dimensions:** 120x100x83 mm
- Black box - grey cover
- Cable entry: 8x knock-out Pg16 (2x on the bottom)

SERIES	WAFER	CODE
P012 P016 P020	Max 6	BL1/0NGO



PHOENIX CAM SWITCHES | ENCLOSURES

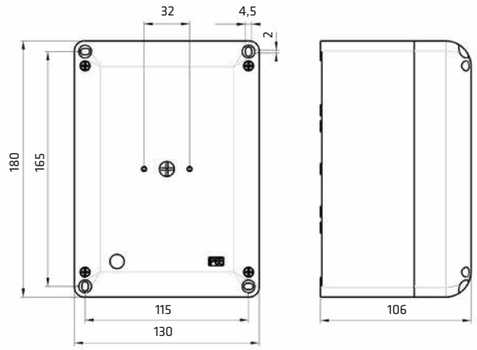
IP65 THERMOPLASTIC ENCLOSURES

BF4/GNGO

IP65

- Front knob
- **Dimensions:** 130x180x106 mm
- Black box - grey cover
- Cable entry: 4x knock-out M25/M32 + 2x ø22,5mm closed hole on the bottom.

SERIES	WAFER	CODE
C025 C032 C040	Max 3	BF4/GNGO

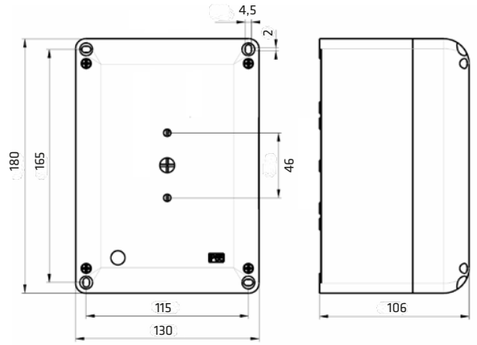


BF4/HNGO

IP65

- Front knob
- **Dimensions:** 130x180x106 mm
- Black box - grey cover
- Cable entry: 4x knock-out M25/M32 + 2x ø22,5mm closed hole on the bottom.

SERIES	WAFER	CODE
C063 C080	Max 2	BF4/HNGO



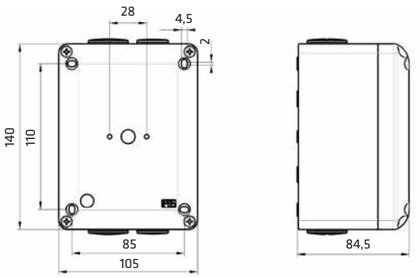
IP65 ALUMINUM ENCLOSURES

BFA/ANGO

IP65

- Front knob
- **Dimensions:** 105x140x85 mm
- Black box - grey cover
- Cable entry: cap 2x M20 +2x M25

SERIES	WAFER	CODE
P012 P016 P020	Max 3	BFA/ANGO

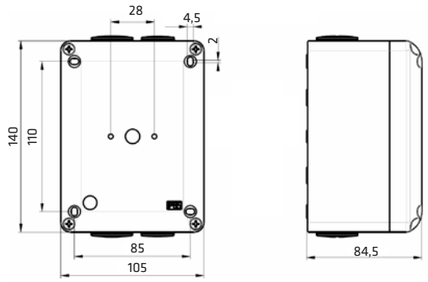


BFA/BNGO

IP65

- Front knob
- **Dimensions:** 105x140x85 mm
- Black box - grey cover
- Cable entry: cap 2x M20 +2x M25

SERIES	WAFER	CODE
C025 C032 C040	Max 2	BFA/BNGO



PHOENIX CAM SWITCHES

RANGE OVERVIEW AND GENERAL CHARACTERISTICS

COMPLY WITH RULES

IEC 947-3, EN 60947-3, UL508

SERIES			P012-P016-P020 PX12-PX16-PX20			C025-C032-C040 CX25-CX32-CX40		
Protection class	control	**EN 60529 (UL50) NEMA 4X**	IP65 (Type 1 - 4 -4X)			IP65 (Type 1 - 4 -4X)		
	control with knob only		IP40			IP40		
	terminals		IP20 (P0) - IP10 (PX)			IP20 (P0) - IP10 (PX)		
Material group		**EN 60947-1**	II			II		
Pollution grade		**EN 60947-1**	3			3		
Flammability		**UL94**	V0 (Live Electrical parts)			V0 (Live Electrical parts)		
Ambient temperature		**°C**	Operating: -40 +85			Operating: -40 +85		
		°C	Storage: -40 +70			Storage: -40 +70		
Climate Withstand		**IEC 68 part 2-3**	Hot damp			Hot damp		
		IEC 68 part 2-30	Unsettled hot damp			Unsettled hot damp		
Terminal screw identification			EN50013			EN50013		
Connections	Terminal block caliber	**EN60947-1**	A3			A5		
	Terminal screw		M3,5			M4		
	Screwing torque	**EN60947-1**	0,8 Nm (7,2 lb. in.)			1,2 Nm (10,6 lb. in.)		
		UL508	7,5 lb. in. (0,85 Nm)			12 lb. in. (1,4 Nm)		
Connectable section	Flexible conductors min/max	**mm²**	1x0,75/4 - 2x0,75/2,5			2x2,5/10		
		AWG	10 - 18			14 - 6		
	Solid conductors min/max	**mm²**	1x0,75/4 - 2x0,75/2,5			2x2,5/10		
		AWG	10 - 18			14 - 6		
Contacts			Double breaking			Double breaking		
Opening angles			30° - 45° - 60° - 90°			30° - 45° - 60° - 90°		
Mechanical lifetime at 120 operations for hour		**mil./cl**	1	1	1	1	1	1
Electrical lifetime at 120 operations for hour		**mil./cl**	1	0,75	0,75	1	0,75	0,75

SERIES		C063-C080		G125	G200
Protection class	control	IP65		IP65	IP65
	control with knob only	IP40		-	-
	terminals	IP00		IP00	IP00
Material group		II		IIIA	IIIA
Pollution grade		3		3	3
Flammability		V0 (Live Electrical parts)		V0 (Live Electrical parts)	V0 (Live Electrical parts)
Ambient temperature		Operating: -40 +70		Operating: -15 +55	Operating: -15 +55
		Storage: -40 +70		Storage: -25 +70	Storage: -25 +70
Climate Withstand		Hot damp		-	-
		Unsettled hot damp		-	-
Terminal screw identification		EN50013		-	-
Connections	Terminal block caliber	A7		-	-
	Terminal screw	2xM4		Hex. screw M8 for bars and cable lugs	Hex. screw M10 for bars and cable lugs
	Screwing torque	1,2 Nm (10,6 lb. in.)		-	-
		10,62 lb. in. (1,2 Nm)		-	-
Connectable section	Flexible conductors min/max	2,5/35		-	-
		14 - 3		-	-
	Solid conductors min/max	2,5/35		-	-
		14 - 3		-	-
Contacts		Double breaking		Double breaking	Double breaking
Opening angles		45° - 60° - 90°		60° - 90°	60° - 90°
Mechanical lifetime at 120 operations for hour		1	1	0,1	0,1
Electrical lifetime at 120 operations for hour		0,5	0,25	0,01	0,01

CERTIFICATIONS	P012 PX12	P016 PX16	P020 PX20	C025 CX25	C032 CX32	C040 CX40	C063	C080	G125	G200
CE mark - Europe	■	■	■	■	■	■	■	■	■	■
cUL Listed - USA and Canada	●	●	●	●	●	●	●	●	●	●
IMQ Istituto Marchio Qualità - Italy	●	●	●	●	●	●	●	●		
CCC Cina	●	●	●	●	●	●				
EAC Russia	●	●	●	●	●	●				

■ Comply to the requirements by passed test. ● Approved.

ELECTRICAL CHARACTERISTICS

EN 60947-3 CHARACTERISTICS			P012 - PX12	P016 - PX16	P020 - PX20	C025 - CX25	C032 - CX32	C040 - CX40	C063	C080	G125	G200
Rated operating voltage Ue		V	690	690	690	690	690	690	690	690	690	690
Rated insulation voltage Ui		V	690	690	690	690	690	690	690	690	690	690
Rated impulse withstand voltage Uimp (sectionable)		kV	4	4	4	6	6	6	8	8	6	6
Rated thermal current Ith		A	16	20	25	32	40	50	85	100	150	225
Rated thermal current in enclosed Ithe		A	12	16	20	25	32	40	85	100	150	225
Frequency		Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
RATED OPERATING CURRENT Ie: alternate current			**P012 - PX12**	**P016 - PX16**	**P020 - PX20**	**C025 - CX25**	**C032 - CX32**	**C040 - CX40**	**C063**	**C080**	**G125**	**G200**
AC-21A Switching resistive loads with light overloads	**690V**	A	12	16	20	25	32	40	63	80	125	200
AC-22A Switching mixed resistive and inductive loads at light overloads	**690V**	A	12	16	20	25	32	40	63	80	125	200
AC-23A Periodic switching of motors — single phase - 1 pole	**110V**	A/kW	12/1,1	14/1,5	18/2	25/1,5	30/2,2	35/3	45/4	63/5,5	-	-
	230V	A/kW	12/2,2	14/3	18/4	25/4	30/5,5	35/6,5	45/7,5	63/11	-	-
3 phases - 3 poles	**230V**	A/kW	10/3	14/4	16/5	25/7,5	30/9	35/11	50/15	58/18,5	140/45	169/55
	400V	A/kW	10/5,5	14/7,5	16/9	22/11	24/15	32/18,5	40/22	54/30	78/45 (415V)	95/55 (415V)
	500V	A/kW	10/7,5	14/10	16/11	22/11	27/18,5	32/22	40/30	54/37	65/45	79/55
	690V	A/kW	10/7,5	14/10	16/12,5	20/15	22/18,5	25/22	32/30	40/37	47/45	57/55
AC3 Starting of cage motors (interruption hile running) — single phase - 2 poles	**110V**	A/kW	10/0,75	12/1,1	16/1,5	22/1,1	25/1,5	30/2,5	36/3,7	45/4	-	-
	230V	A/kW	10/2	12/2,2	16/3,5	22/3,7	25/4	30/5,5	36/6,5	45/7,5	-	-
3 phases - 3 poles	**230V**	A/kW	8/2,2	10/3	12/4	18/5,5	23/7,5	27/9	37/11	47/15	115/37	140/45
	400V	A/kW	8/4	10/5	12/6	18/7,5	23/11	27/15	35/18,5	44/22	64/37 (415V)	78/45 (415V)
	500V	A/kW	8/5,5	10/7,5	12/8	18/11	23/15	27/18,5	35/22	44/30	53/37	64/45
	690V	A/kW	6/5,5	8/7,5	10/9	14/11	18/15	20/18,5	25/22	32/30	39/37	47/45
Nominal interruption power AC-23A (cosfi 0,45)	**230V**	A	80	104	128	200	240	280	400	464	-	-
	400V	A	80	104	128	176	216	256	320	432	-	-
	500V	A	80	112	128	176	216	256	320	432	-	-
	690V	A	80	112	128	160	176	200	256	320	-	-
Power dissipation for each pole		W	0,3*	0,35*	0,4*	-	-	-	-	-	-	-
RATED OPERATING CURRENT Ie: direct current			**P012 - PX12**	**P016 - PX16**	**P020 - PX20**	**C025 - CX25**	**C032 - CX32**	**C040 - CX40**	**C063**	**C080**	**G125**	**G200**
DC-21A Switching resistive loads with light overloads	**50V** (1 phase)	A	10	12	16	20 ▼	25 ▼	32 ▼	-	-	-	-
DC-22A Switching mixed resistive and inductive loads at light overloads	**30V** (1 phase)	A	8	10	12	16 ▼	20 ▼	25 ▼	-	-	-	-
SHORT CIRCUIT CHARACTERISTICS			**P012 - PX12**	**P016 - PX16**	**P020 - PX20**	**C025 - CX25**	**C032 - CX32**	**C040 - CX40**	**C063**	**C080**	**G125**	**G200**
Rated short-time short circuit withstand current Icw (1 s)		A	300	300	300	500	500	500	1200	1200	-	-
Rated short circuit making capacity Icm		A	1200	1200	1200	2840	2840	2840	2000	2000	-	-
Conditional rated short circuit withstand current		kA	5	5	5	10	10	10	10	10	20	20
Fuse rating gG	**690V**	A	20	20	20	40 ■	40 ■	40 ■	100	100	125 ▲	200 ▲
UL 508 CHARACTERISTICS			**P012 - PX12**	**P016 - PX16**	**P020 - PX20**	**C025 - CX25**	**C032 - CX32**	**C040 - CX40**	**C063**	**C080**	**G125**	**G200**
General Use	**600V AC**	A	12	16	20	25	32	40	63	85	125	175
Standard motor load — single phase - 2 poles	**120V AC**	HP (FLA)	0,5 (9,8)	1 (16)	1,5 (20)	1,5 (20)	2 (24)	3 (34)	5 (56)	5 (56)	-	-
	240V AC	HP (FLA)	1 (8)	1,5 (10)	2 (12)	3 (17)	5 (28)	5 (28)	7,5 (40)	10 (50)	-	-
3 phases - 3 poles	**200V AC**	HP (FLA)	1,5 (6,9)	3 (11,04)	5 (17,5)	7,5 (25,3)	7,5 (25,3)	10 (32,2)	-	-	10 (56)	15 (84)
	240V AC	HP (FLA)	3 (9,6)	5 (15,2)	5 (15,2)	7,5 (22)	7,5 (22)	10 (28)	15 (42)	20 (54)	20 (54)	25 (68)
	480V AC	HP (FLA)	5 (7,6)	7,5 (11)	10 (14)	15 (21)	20 (27)	20 (27)	30 (40)	40 (52)	40 (52)	50 (65)
	600V AC	HP (FLA)	5 (6,1)	7,5 (9)	10 (11)	15 (17)	20 (22)	20 (22)	40 (41)	50 (52)	50 (52)	50 (52)

▼ Values not reported on the IMQ files. ■ Fuses type gG 40a 500V ▲ Fuses type gG/Gm

EXECUTION ON DEMAND

ORDER FORM FOR SPECIAL SCHEME ON REQUEST

SPECIAL SHAFTS

- Length and shape on request.

FAST ON CONNECTIONS

- Flat fast on terminals.
- Single or double terminals.
- P012 ... P020 - C025 ... C040 Series.

AXIAL INTERLOCK

- "Push and turn" interlock in several positions.
- C025 ... C040 Series.

UNDIRECTIONAL ROTATION

- Unidirectional turn.
- C025 ... C040 Series.

PE SERIES - LOWERED CAM SWITCHES

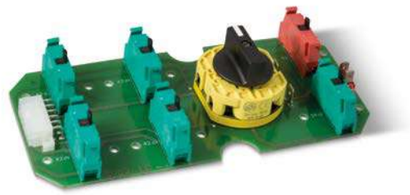
- Only for 12 ... 20A Series.
- Only for few electrical schemes.
- Length 20mm less than an equivalent PO-PX Series.

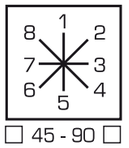
COAXIAL COUPLING

- Power Unit + Aux Unit.

CAM SWITCH

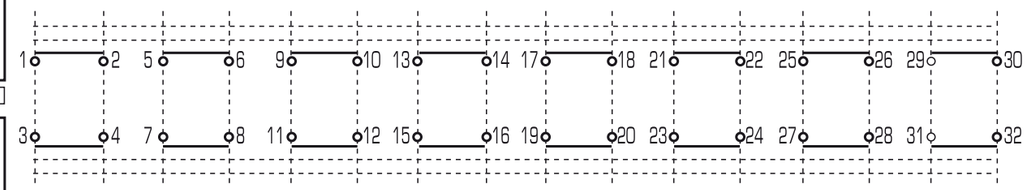
- Suitable for PCB connection.
- **PATENTED** product.





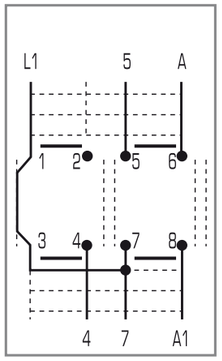
☐ 45 - 90 ☐

☐ 30 - 60 ☐



POS.	DESCRIPTION	POS.	DESCRIPTION
1		7	
2		8	
3		9	
4		10	
5		11	
6		12	

		POSITION
10	39-40	
	37-38	
9	35-36	
	33-34	
8	31-32	
	29-30	
7	27-28	
	25-26	
6	23-24	
	21-22	
5	19-20	
	17-18	
4	15-16	
	13-14	
3	11-12	
	9-10	
2	7-8	
	5-6	
1	3-4	
	1-2	
WAFER	CONT.	



WAFER	CONT.	0	1	M
		POSITION		
2	7-8			X
	5-6		X	X
1	3-4	X	X	
	1-2		X	

☐ Open Contact
☒ Closed contact
☒ Break before make
☒ Contact closed: no interruption during changeover
1 / 2 Spring return
☒ Make before break
☒ Open contact early make

Rated current Ie
Operational rated voltage Ue

Category	Amp/kw		Volt
☐ AC-21A		A	V
☐ AC-22A		A	V
☐ AC-23A	1Ph	kW	V
	3Ph	kW	V
☐ AC-3	1Ph	kW	V
	3Ph	kW	V

Series

Mounting:
☐ Rear Panel mounting
☐ Base
☐ Din

Operating:

Notes:

Company:

Contact person:

Phone
Fax
E-mail
Quantity
Due date
Order Nr.

LOGISTICS

Giovenzana International B.V. to support the market and his different necessity has created this organization that is always in process to cover territory in five different hubs.

SALES OFFICE

GIOVENZANA INTERNATIONAL B.V.
Budapest, Hungary - Office and Delivery

G.T.R. LLC
Moscow, Russian Federation - Office and Logistic Hub

GIOVENZANA CONTROLS INDIA Pvt. Ltd.
Mumbai, India - Office

GIOVENZANA DEUTSCHLAND
Hannover, Germany - Office

GIOVENZANA do Brasil
São Paulo, Brasil - Office and Logistic Hub

Branch

GIOVENZANA INTERNATIONAL B.V.
Dubai U.A.E. - Office and Logistic Hub for ME and FE included China, India, Oceania, Africa

Headquarter

GIOVENZANA INTERNATIONAL B.V.
Amsterdam, The Netherland - Industrial and Commercial

Manufacturers units

G.G.T. Srl
Milan, Italy - Historical Unit

G.G.Space Kft
Budapest, Hungary

Engineering

Electra Engineering Srl
Milan, Italy

Logistic warehouses

ITALY
HUNGARY
RUSSIAN FEDERATION
DUBAI U.A.E.
BRASIL