

Catalog
Extract
LV 10

Edition
10/2023

SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Switching Devices

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Catalog LV 10 · 10/2023

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The products and systems described in this catalog are manufactured/distributed under application of a certified quality management system in accordance with EN ISO 9001 (for the Certified Registration Nos., see www.siemens.com/system-certificates/ep). The certificate is recognized by all IQNet countries.

Technical specifications

The technical specifications are for general information purposes only. Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

All illustrations are not binding.

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Low-Voltage Power Distribution and Electrical Installation Technology

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A



Electrical switching – on the safe side

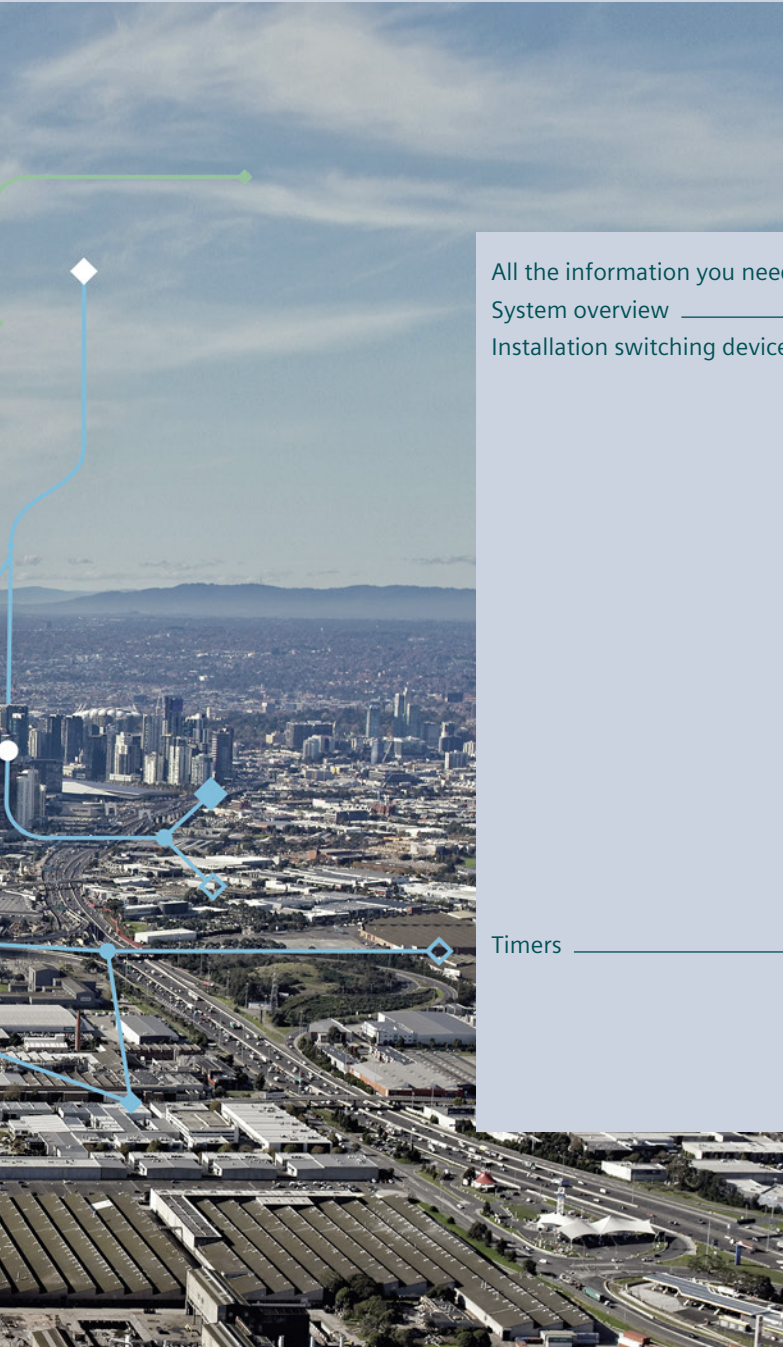
Control and automatic functions always employ electrical switching.

Remote control switches for pulse controls, switching relays, or Insta contactors switch electrical loads.

Our low-voltage circuit protection technology offers a wide variety of contact versions and rated currents for the different requirements of these devices.

Safety, convenience and energy savings – these characterize automatic switching.

Switching Devices



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A multitude of additional information ...

Information + ordering

All the important things at a glance

For information about transfer switching equipment and load transfer switches, please visit our website www.siemens.com/switching-devices

Your product in detail

The relevant tender specifications can be found at www.siemens.com/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Everything you need for your order

Refer to SiePortal to find an overview of your products (product catalog)

- Switching devices sie.ag/2m4eG5M

Direct forwarding to the individual products in SiePortal by clicking on the article number in the catalog or entering this web address incl. article number www.siemens.com/product_catalog_SIEP?Article No.

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The fast track to the experts

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We offer a comprehensive portfolio of services. You can find your local contacts at www.siemens.com/lowvoltage/components/contact

You will find further information on services at www.siemens.com/service-offers

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/support-request

... can be found in our online services

Commissioning + operation

Your product in detail

The SiePortal platform (knowledge base) provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Online Support app available for download from the [App Store](#) and [Play Store](#)

You will find further information at www.siemens.com/support-app

Provision of 3D data (step and u3d data formats)

- SiePortal (product catalog)
www.siemens.com/lowvoltage/product-catalog
- Image database
www.siemens.com/lowvoltage/picturedb

Engineering data for CAD or CAE systems are available in the CAx Download Manager at www.siemens.com/cax

Manuals

Manuals can be found in SiePortal at

www.siemens.com/lowvoltage/manuals

- Configuration Manual
– Switching devices (45315361)

Face-to-face or online training

Our training courses can be found at

www.siemens.com/sitrain-lowvoltage

- Basic principles of electrical engineering (WT-LVBGET)

Technical overview – Switching devices



The fast way to get you to our online services

This page provides you with comprehensive information and links on switching devices

www.siemens.com/lowvoltage/product-support (109769083)

System overview

Basic units and accessories

Installation switching devices



5TE8
control switches



5TE48
pushbuttons



5TE58
light indicators



5TE81/82, 5TL1
On/Off switches



5TE
DC isolators



5TE
busbars



5TT41, 5TT44
remote control switches



5TT4, 5TT5
auxiliary switches



5TT42
switching relays



5TT50, 5TT58
Insta contactors



5TT3
soft-starting devices

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Accessories



Auxiliary switches
(AS)



Shunt trips
(ST)



Undervoltage
releases (UR)



Remote control
mechanisms
(RC mech.)



Handle locking
devices



LEDs



Caps/covers



Connectors

Timers



7LF4 digital
time switches



7LF5 mechanical
time switches



7LF6 timers for
buildings



5TT3 timers for
industrial applications

Accessories



Holders

Note:

You will find a detailed range of accessories with the basic units.

5TE8 control switches

	Control switches	Two-way switches	Group switches with center position
Rated operational current I_e per conducting path	20 A	20 A	20 A
Rigid conductor cross-section	1 ... 6 mm ²	1 ... 6 mm ²	1 ... 6 mm ²
Flexible conductor cross-section, with end sleeve	1 ... 6 mm ²	1 ... 6 mm ²	1 ... 6 mm ²



Contacts	U_e AC	Mounting width	Auxiliary switches		Auxiliary switches		Auxiliary switches
			Cannot be retrofitted	Mounted	Cannot be retrofitted	Mounted	Cannot be retrofitted
1 NO	48 V	1 MW	5TE8101-3	–	–	–	–
	230 V	1 MW	5TE8101	–	–	–	–
2 NO	400 V	1 MW	5TE8102	–	–	–	–
3 NO	400 V	1 MW	5TE8103	–	–	–	–
		1.5 MW	–	5TE8108	–	–	–
1 NO + 1 NC	400 V	1 MW	–	–	–	5TE8151	–
2 NO + 2 NC	400 V	1 MW	–	–	5TE8152	–	–
3 NO + 1 NC	400 V	1 MW	–	–	5TE8153	–	–
1 CO	230 V	1 MW	–	–	5TE8161	–	–
2 CO	400 V	1 MW	–	–	5TE8162	–	–
1 toggle switch	230 V	1 MW	–	–	–	–	5TE8141
2 toggle switches	400 V	1 MW	–	–	–	–	5TE8142

Further technical specifications

5TE8

Standards		
Standards		IEC/EN 60947-3 (VDE 0660-107), IEC/EN 60669-1 (VDE 0632-1)
Approvals		IEC/EN 60947-3 (VDE 0660-107), GB14048.3-2008 CCC
Supply		
Rated power dissipation P_v	Per pole	0.7 VA
Contacts		
Minimum contact load		10 V; 300 mA
Rated making/rated breaking capacity	At p.f. = 0.65	60 A/60 A
Rated short-time withstand current I_{cw} per conducting path at p.f. = 0.7	Up to 0.2 s	650 A
	Up to 0.5 s	400 A
	Up to 1 s	290 A
	Up to 3 s	170 A
Thermal rated current I_{th}		20 A
Electrical endurance/mechanical service life	Actuations	10000/25000
Safety		
Clearances	Open contacts	2 × > 2 mm
	Between the poles	> 7 mm
Creepage distances		> 7 mm
Sealable switch position		Yes
Separate handle locking device		Yes
Rated short-circuit making capacity I_{cm}		10 kA
Rated impulse voltage U_{imp}		> 5 kV
Connections		
Terminals	± Screw (Pozidriv)	PZ1
	Max. tightening torque	0.8 ... 1.0 Nm
Ambient conditions		
Permissible ambient temperature		–5 ... +40 °C
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 °C

Accessories

Handle locking device



- To prevent undesired mechanical On/Off switching
- Sealable
- For padlock with max. 3 mm shackle

Article No.

5ST3801

Spacer



- Contour for modular devices with a mounting depth of 70 mm
- Can be snapped onto either side of the busbar for convenient cable routing
- Spacer is recommended for better heat dissipation

Article No.

5TG8240

Set of mixed caps






- For manual changing of the luminous plates for the control switches

Article No.

5TG8068

5TE48 pushbuttons

With/without LED

	Pushbuttons without maintained-contact function	Pushbuttons with maintained-contact function	Control pushbuttons with maintained-contact function or momentary-contact function
	Without LED	Without LED	With LED
Rated operational current I_e per conducting path	20 A	20 A	20 A
Rigid/flexible conductor cross-section	1 ... 6 mm ²	1 ... 6 mm ²	1 ... 6 mm ²
Max. cable length	Standard	Standard	Standard
			



Contacts	U_e AC	Mounting width						
1 NO	230 V	1 MW	–	–	–	–	1 × red	5TE4821
			–	–	–	–	–	–
2x 1 NO	400 V	1 MW	1 × green, 1 × blue	5TE4804	–	–	–	–
2 NO	400 V	1 MW	–	–	1 × gray	5TE4811	1 × red	5TE4823
1 NO + 1 NC	400 V	1 MW	1 × gray	5TE4800	1 × gray	5TE4810	–	–
			1 × red	5TE4805	–	–	1 × red	5TE4820
			1 × green	5TE4806	–	–	–	–
			1 × yellow	5TE4807	–	–	–	–
			1 × blue	5TE4808	–	–	–	–
2x (1 NO + 1 NC)	400 V	1 MW	–	–	–	–	–	–
2 NO + 2 NC	400 V	1 MW	1 × gray	5TE4801-2	1 × gray	5TE4811-2	–	–
3 NO + 1 NC	400 V	1 MW	1 × gray	5TE4802	1 × gray	5TE4812-1	–	–
3 NO + N	400 V	1 MW	–	–	1 × gray	5TE4812	–	–
2 NC	400 V	1 MW	–	–	–	–	1 × red	5TE4824
4 NC	400 V	1 MW	–	–	1 × gray	5TE4813	–	–
2 CO	400 V	1 MW	–	–	1 × gray	5TE4814	–	–

Further technical specifications

5TE48

Standards		
Standards	IEC/EN 60947-3 (VDE 0660-107), IEC/EN 60669-1 (VDE 0632-1)	
Approvals	IEC/EN 60947-3 (VDE 0660-107)	
Supply		
Rated power dissipation P_v	Per pole	0.6 VA
Contacts		
Minimum contact load	10 V; 300 mA	
Rated making/rated breaking capacity	At p.f. = 0.65	60 A/60 A
Rated short-time withstand current I_{cw} per conducting path at p.f. = 0.7	Up to 0.2 s	650 A
	Up to 0.5 s	400 A
	Up to 1 s	290 A
	Up to 3 s	170 A
Thermal rated current I_{th}	20 A	
Mechanical service life	Actuations	25000
Safety		
Clearances	Open contacts	2 × > 2 mm
	Between the poles	> 7 mm
Creepage distances	> 7 mm	
Rated impulse voltage U_{imp}	> 5 kV	
Connections		
Terminals	± Screw (Pozidriv)	PZ1
	Max. tightening torque	0.8 ... 1.0 Nm
Ambient conditions		
Permissible ambient temperature	–5 ... +40 °C	
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 °C

Double pushbuttons with maintained-contact function and/or momentary-contact function

With LED		Without LED	With LED		
20 A		20 A			
1 ... 6 mm ²		1 ... 6 mm ²			
150 m		Standard			
					
1 × red	5TE4822	–	–	–	
1 × blue	5TE4822-1	–	–	–	
–	–	–	1 × green, 1 × red	5TE4840	
–	–	–	–	–	
–	–	–	–	–	
–	–	–	–	–	
–	–	1 × green, 1 × red	5TE4830	1 × green, 1 × red	5TE4841
–	–	–	–	–	
–	–	–	–	–	
–	–	1 × green, 1 × red	5TE4831	–	–
–	–	–	–	–	
–	–	–	–	–	
–	–	–	–	–	
–	–	–	–	–	
–	–	–	–	–	
–	–	–	–	–	

Accessories

LEDs for manual spare part



I_e	U_e	Color	Article No.
0.4 A	12 ... 60 V AC/DC	White	5TG8056-0
		Red	5TG8056-1
		Yellow	5TG8056-2
		Green	5TG8056-3
	115 V AC/DC	Blue	5TG8056-4
		White	5TG8057-0
		Red	5TG8057-1
		Yellow	5TG8057-2
	230 V AC	Green	5TG8057-3
		Blue	5TG8057-4
		White	5TG8058-0
		Red	5TG8058-1
		Yellow	5TG8058-2
		Green	5TG8058-3
		Blue	5TG8058-4



Cap sets

- For manual changing of colored caps with or without lamps
- 1 set = 5 units

Color	Article No.
 Red, transparent	5TG8061
 Green, transparent	5TG8062
 Yellow, transparent	5TG8063
 Blue, transparent	5TG8064
 Black, non-transparent	5TG8065
 White, transparent	5TG8066
 Gray, non-transparent	5TG8060

Sets of mixed caps

- For manual changing of colored caps with or without lamps

Color	Article No.
 10 × each of red/green + 5 × each of yellow/blue/white	5TG8067
 1 × each of red/green/yellow	5TG8070

Color coding according to IEC 60073

Color	Safety of people/ environment	Process state	System state
Red	Danger	Emergency	Faulty
Green	Safety	Normal	Normal
Yellow	Warning/Caution	Abnormal	Abnormal
Blue	Stipulation		
Black, white, gray	No special significance assigned		

5TE58 light indicators

With LED

5TE58 light indicators

Rigid conductor cross-section	1.5 ... 6 mm ²	1.5 ... 6 mm ²
Flexible conductor cross-section, with end sleeve	1 ... 6 mm ²	1 ... 6 mm ²
Max. cable length	Standard	250 m



U _e AC	Mounting width				
230 V	1 MW	1 × red	5TE5800	1 × red	5TE5804
		1 × green, 1 × red	5TE5801		–
		3 × green	5TE5802		–
		1 × red, 1 × yellow, 1 × green	5TE5803		–
12 ... 60 V	1 MW	1 × red	5TE5810		–
		1 × green	5TE5810-1		–
		1 × green, 1 × red	5TE5811		–
		3 × green	5TE5812		–
		1 × red, 1 × yellow, 1 × green	5TE5812-1		–

Further technical specifications

5TE58

Standards		
Standards		DIN VDE 62094-1/A11
Supply		
Rated power dissipation P _v	LED	0.4 VA
Safety		
Clearances	Between the terminals	> 7 mm
Connections		
Terminals	± Screw (Pozidriv)	PZ1
	Max. tightening torque	0.8 ... 1.0 Nm
Ambient conditions		
Permissible ambient temperature		–5 ... +40 °C
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 °C

Accessories

LEDs for manual spare part



I_e	U_e	Color	Article No.
0.4 A	12 ... 60 V AC/DC	White	5TG8056-0
		Red	5TG8056-1
		Yellow	5TG8056-2
		Green	5TG8056-3
	115 V AC/DC	Blue	5TG8056-4
		White	5TG8057-0
		Red	5TG8057-1
		Yellow	5TG8057-2
	230 V AC	Green	5TG8057-3
		Blue	5TG8057-4
		White	5TG8058-0
		Red	5TG8058-1
		Yellow	5TG8058-2
		Green	5TG8058-3
		Blue	5TG8058-4

Cap sets

- For manual changing of colored caps
- 1 set = 5 units

Color	Article No.
Red, transparent	5TG8061
Green, transparent	5TG8062
Yellow, transparent	5TG8063
Blue, transparent	5TG8064
White, transparent	5TG8066

Sets of mixed caps



- For manual changing of colored caps

Color	Article No.
10 × each of red/green + 5 × each of yellow/blue/white	5TG8067
1 × each of red/green/yellow	5TG8070

Color coding according to IEC 60073

Color	Safety of people/ environment	Process state	System state
Red	Danger	Emergency	Faulty
Green	Safety	Normal	Normal
Yellow	Warning/Caution	Abnormal	Abnormal
Blue	Stipulation		
Black, white, gray	No special significance assigned		

5TE81/82 On/Off switches

	5TE81 On/Off switches	5TE82 On/Off switches
Rated operational current I_e per conducting path	20 A	32 A
Rigid conductor cross-section	1.5 ... 6 mm ²	1.5 ... 6 mm ²
Flexible conductor cross-section, with end sleeve	1 ... 6 mm ²	1 ... 6 mm ²
		

Contacts	U_e AC	Mounting width	Auxiliary switches			Auxiliary switches		
			Can be retrofitted	Cannot be retrofitted	Mounted	Can be retrofitted	Cannot be retrofitted	Mounted
1 NO	230 V	1 MW	5TE8111	–	–	5TE8211	–	–
2 NO	400 V	1 MW	5TE8112	–	–	5TE8212	–	–
3 NO	400 V	1 MW	5TE8113	–	–	5TE8213	–	–
3 NO + N	400 V	1 MW	–	5TE8114	–	–	5TE8214	–
		1.5 MW	–	–	5TE8118	–	–	5TE8218

Further technical specifications

	5TE81	5TE82
Standards		
Standards	IEC/EN 60947-3 (VDE 0660-107), IEC/EN 60669-1	IEC/EN 60947-3 (VDE 0660-107)
Approvals		
IEC/EN 60947-3 (VDE 0660-107)		
Supply		
Rated power dissipation P_v	Per pole	0.7 VA
Contacts		
Minimum contact load	10 V; 300 mA	
Rated making/rated breaking capacity	At p.f. = 0.65	60 A/60 A
Rated short-time withstand current I_{cw} per conducting path at p.f. = 0.7	Up to 0.2 s	650 A
	Up to 0.5 s	400 A
	Up to 1 s	290 A
	Up to 3 s	170 A
Thermal rated current I_{th}	20 A	32 A
Electrical endurance/mechanical service life	Actuations	10000/25000
Safety		
Clearances	Open contacts	2 × > 2 mm
	Between the poles	> 7 mm
Creepage distances	> 7 mm	
Rated short-circuit making capacity I_{cm}	10 kA	
Rated impulse voltage U_{imp}	> 5 kV	
Connections		
Terminals	± Screw (Pozidriv)	PZ1
	Max. tightening torque	0.8 ... 1.0 Nm
Ambient conditions		
Permissible ambient temperature	–5 ... +40 °C	
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 °C

Accessories

Auxiliary switches (AS)



- For right-hand-side retrofitting with factory-fitted brackets

Contacts	Type	Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016

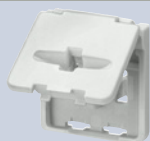
Handle locking device



- To prevent undesired mechanical On/Off switching
- Sealable
- For padlock with max. 3 mm shackle

Article No.
5ST3801

Terminal cover



- For covering screw openings
- Sealable

Article No.
5ST3800

Spacer



- Contour for modular devices with a mounting depth of 70 mm
- Can be snapped onto either side of the busbar for convenient cable routing
- Spacer is recommended for better heat dissipation

Article No.
5TG8240

5TL1 On/Off switches



	Rated operational current I_e per conducting path				
	32 A	40 A	63 A	80 A	100 A
Rigid conductor cross-section	1 ... 35 mm ²	1 ... 35 mm ²	1 ... 35 mm ²	2.5 ... 50 mm ²	2.5 ... 50 mm ²
Flexible conductor cross-section, with end sleeve	1 ... 25 mm ²	1 ... 25 mm ²	1 ... 25 mm ²	2.5 ... 50 mm ²	2.5 ... 50 mm ²



Contacts	Rated operational voltage U_e AC	Mounting width	Gray handle	Gray handle	Gray handle	Red handle	Gray handle	Gray handle
1 NO	230 V	1 MW	5TL1132-0	5TL1140-0	5TL1163-0	5TL1163-1	5TL1180-0	5TL1191-0
2 NO	400 V	2 MW	5TL1232-0	5TL1240-0	5TL1263-0	5TL1263-1	5TL1280-0	5TL1291-0
3 NO	400 V	3 MW	5TL1332-0	5TL1340-0	5TL1363-0	5TL1363-1	5TL1380-0	5TL1391-0
4 NO	400 V	4 MW	5TL1432-0	5TL1440-0	5TL1463-0	–	5TL1480-0	5TL1491-0
3 NO + N	400 V	4 MW	5TL1632-0	5TL1640-0	5TL1663-0	5TL1663-1	5TL1680-0	5TL1691-0

Further technical specifications

		5TL1.32	5TL1.40	5TL1.63	5TL1.80	5TL1.91	5TL1.92
Standards							
Standards		IEC/EN 60947-3 (VDE 0660-107)					
Approvals		IEC/EN 60947-3 (VDE 0660-107)					
Supply							
Rated power dissipation P_v	Per pole, max.	0.7 VA	0.9 VA	2.2 VA	3.5 VA	5.5 VA	8.6 VA
Contacts							
Minimum contact load		24 V; 300 mA					
Rated making/rated breaking capacity AC-22A	At p.f. = 0.65	96 A/ 96 A	120 A/ 120 A	196 A/ 196 A	240 A/ 240 A	300 A/ 300 A	375 A/ 375 A
Rated short-time withstand current I_{cw} per conducting path at p.f. = 0.7 ¹⁾	Up to 0.2 s	760 A	950 A	1500 A	2700 A	3400 A	
	Up to 0.5 s	500 A	630 A	1000 A	1650 A	2100 A	
	Up to 1 s	400 A	500 A	800 A	1350 A	1700 A	
	Up to 3 s	280 A	350 A	560 A	800 A	1000 A	
Thermal rated current I_{th}		32 A	40 A	63 A	80 A	100 A	125 A
Electrical endurance/mechanical service life	Switching cycles	10000/ 20000	10000	5000	2000		
Rated power for the switching of resistive load including moderate overload AC-21	1-pole	5 kW	6.5 kW	10 kW	13 kW	16 kW	
	2-pole	9 kW	11 kW	18 kW	22 kW	28 kW	
	3/4-pole	15 kW		30 kW	39 kW	48 kW	
Safety							
Creepage distances		> 7 mm					
Clearances	Open contacts	> 7 mm					
	Between the poles	> 7 mm					
Rated short-circuit making capacity I_{cm} (in conjunction with fuse of the same rated operational current EN 60269 gL/gG)		10 kA					
Rated impulse voltage U_{imp}		6 kV					
Connections							
Terminals	± Screw (Pozidriv)	PZ2					
	Max. tightening torque	3.5 Nm					
Ambient conditions							
Permissible ambient temperature		–5 ... +40 °C					
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 °C					

125 A	
	2.5 ... 50 mm ²
	2.5 ... 50 mm ²
	
Red handle	Gray handle
5TL1191-1	5TL1192-0
5TL1291-1	5TL1292-0
5TL1391-1	5TL1392-0
–	5TL1492-0
5TL1691-1	5TL1692-0

Accessories

Auxiliary switches (AS)



- For right-hand-side retrofitting with factory-fitted brackets

Contacts	Type	Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016

Remote control mechanisms (RC mech.)



Type	U _e	Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
	177 ... 270 V AC	5ST3054
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058

Adapters for remote control mechanisms (RC mech.)



Mounting width	Article No.
1–2 MW	5ST3820-6
3–4 MW	5ST3820-7

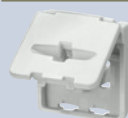
Handle locking device



- To prevent undesired mechanical On/Off switching
- Sealable
- For padlock with max. 3 mm shackle

Article No.
5ST3806

Terminal cover



- For covering screw openings
- Sealable

Article No.
5ST3800

Spacer



- Contour for modular devices with a mounting depth of 70 mm
- Can be snapped onto either side of the busbar for convenient cable routing
- Spacer is recommended for better heat dissipation

Article No.
5TG8240

Phase connectors



- For easy wiring in various circuit versions and bus mountings
- As a support terminal for conductors from 2.5 to 50 mm²

Number of poles	I _e	U _e AC	Mounting width	Article No.
1-pole	125 A	230 V	1 MW	5TL1192-4

N conductor connectors



- For easy wiring in various circuit versions and bus mountings
- As a support terminal for N conductors from 2.5 to 50 mm² with blue color marking

Number of poles	I _e	U _e AC	Mounting width	Article No.
1-pole	125 A	230 V	1 MW	5TL1192-3

5TE DC isolator

Can be used as switch disconnectors according to EN 60947-3

Rated operational current I_e
63 A

Rigid conductor cross-section 0.75 ... 35 mm²
Flexible conductor cross-section, with end sleeve 0.75 ... 25 mm²



Contacts	Max. operational voltage U_{max} DC	Mounting width	Auxiliary switches can be retrofitted
4 NO	1000 V	4 MW	5TE2515-1

5

Further technical specifications

Standards		
Standards	IEC/EN 60947-3; GB14048.3-2008 CCC	
Supply		
Rated operational voltage U_e	For 4 poles in series	880 V DC
Rated power dissipation P_v	Per pole, max.	4.4 W
Contacts		
Minimum contact load	24 V; 300 mA	
Rated short-time withstand current I_{cw}	1000 V DC, 4-pole	760 A
Electrical endurance/mechanical service life	Actuations	5000/10000
Safety		
Rated short-circuit making capacity I_{cm}	1000 V DC, 4-pole	500 A
Rated impulse voltage U_{imp}	> 5 kV	
Overvoltage category	At U = 440 ... 880 V	II
	At U = 1000 V	I
Utilization category	DC-21B	
Connections		
Terminals	± Screw (Pozidriv)	PZ2
	Max. tightening torque	2.5 ... 3 Nm
Ambient conditions		
Permissible ambient temperature	-25 ... +40 °C	
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 °C

Accessories

Auxiliary switches (AS)



- For right-hand-side retrofitting with factory-fitted brackets

Contacts	Type	Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016

Shunt trips (ST)



Rated operational voltage U_e	Article No.
110 ... 415 V AC, 110 ... 220 V DC	5ST3030
24 ... 48 V AC/DC	5ST3031
12 V AC/DC	5ST3031-0XX01

Undervoltage releases (UR)

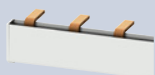


Type	Rated operational voltage U_e	Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045

5TE busbars

For modular installation devices

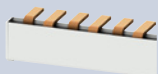
1-phase busbar



- For all 5TE8 switches, 20 A and 32 A
- For the cutting of unused terminal lugs and to ensure insulation clearances if one device terminal is to be supplied separately despite being mounted on the bus
- Infeed to unit terminal with conductor cross-section of 6 mm² up to 32 A
- Can be mounted from either top or bottom, in the front or rear terminal area
- An end cap is not required on 1-phase busbars

Length	Division	Article No.
210 mm	12 MW version with 1 MW modular clearance	5TE9100

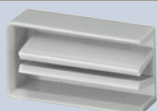
2-phase busbar



- For all 5TE8 switches, 20 A and 32 A
- Infeed to unit terminal with conductor cross-section of 6 mm² up to 32 A
- Can be mounted from either top or bottom, in the front and/or rear terminal area, thus allowing realization of a 4-wire connection using 2 2-phase busbars
- Both copper conductors of the 2-phase busbar are insulated together

Length	Division	Article No.
220 mm	12 MW version each with 1 MW modular clearance, phases offset by 0.5 MW	5TE9101

End caps for 2-phase busbars



- End caps for 5TE9101 2-phase busbars to maintain insulation clearances when the bar is being cut
- 1 set = 10 units

Article No.
5TE9102

5TT41 remote control switches

Rated current 16 A

Rated operational current I_e
16 A

Rigid conductor cross-section
Flexible conductor cross-section, with end sleeve

1 ... 6 mm²

1 ... 6 mm²



Contacts	U_e	U_c AC	U_c DC	Mounting width		Auxiliary switches can be retrofitted		
				1 MW	2 MW			
1 NO	250 V	230 V	–	■	–	5TT4101-0		
		115 V	–	■	–	5TT4101-1		
		24 V	–	■	–	5TT4101-2		
		12 V	–	■	–	5TT4101-3		
		8 V	–	■	–	5TT4101-4		
		–	110 V	■	–	5TT4111-1		
		–	24 V	■	–	5TT4111-2		
		–	12 V	■	–	5TT4111-3		
		1 NO + 1 NC	250 V	230 V	–	■	–	5TT4105-0
				115 V	–	■	–	5TT4105-1
24 V	–			■	–	5TT4105-2		
12 V	–			■	–	5TT4105-3		
8 V	–			■	–	5TT4105-4		
–	110 V			■	–	5TT4115-1		
–	24 V			■	–	5TT4115-2		
–	12 V			■	–	5TT4115-3		
2 NO	400 V			230 V	–	■	–	5TT4102-0
				115 V	–	■	–	5TT4102-1
		24 V	–	■	–	5TT4102-2		
		12 V	–	■	–	5TT4102-3		
		8 V	–	■	–	5TT4102-4		
		–	110 V	■	–	5TT4112-1		
		–	24 V	■	–	5TT4112-2		
		–	12 V	■	–	5TT4112-3		
		3 NO	400 V	230 V	–	–	■	5TT4103-0
				24 V	–	–	■	5TT4103-2
4 NO	400 V	230 V	–	–	■	5TT4104-0		
		24 V	–	–	■	5TT4104-2		
		–	110 V	–	■	5TT4114-1		
–	24 V	–	■	5TT4114-2				

Further technical specifications

5TT4101	5TT4111	5TT4103
5TT4102	5TT4112	5TT4104
5TT4105	5TT4115	5TT4114

Standards		
Standards	IEC 60669-1, IEC 60669-2, IEC 60669-3, EN 60669 (VDE 0632), EN 60669-2-2, EN 60669-2-2/A1	
Approvals	VDE	
Supply		
Rated operational current I_e	At p.f. = 0.6 ... 1 (AC-15)	16 A
Primary operating range	$0.8 \dots 1.1 \times U_c$	
Rated frequency f_c	50 Hz	
Rated power dissipation P_v	Magnet coil, only pulse	4.5 W/7 VA
	Per pole, max.	1.2 W
9 W/13 VA		
Contacts		
Contact gap	> 1.2 mm	
Minimum contact load	10 V; 100 mA	
Electrical endurance at I_e/U_e , p.f. = 0.6, incandescent lamp load 600 W	Operating cycles	50000
Incandescent lamp load (switching of incandescent lamps for 15000 switching cycles)	At AC-5b (230 V)	1200 W
Glow lamp load at 230 V		5 mA
	With 1 5TT4920 compensator	25 mA
	With 2 5TT4920 compensators	45 mA
Minimum pulse duration	50 ms	
Safety		
Different phases between magnet coil and contact	Permissible	
Clearances	Between magnet coil and contact	> 6 mm
Creepage distances	Between magnet coil and contact	> 6 mm
Rated impulse voltage U_{imp}	4 kV	
Function		
Manual operation	Yes	
Switching position indication	Yes	
Connections		
Terminals	± Screw (Pozidriv)	PZ1
	Max. tightening torque	0.8 ... 1 Nm
Ambient conditions		
Permissible ambient temperature	-10 ... +40 °C	
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	35 °C
Degree of protection	Acc. to EN 60529	IP20, with connected conductors

Accessories

Auxiliary switches



- One device per remote control switch can be retrofitted

Contacts	Type	I_e	U_e	Mounting width	Article No.
1 CO	Standard	5 A	250 V AC	0.5 MW	5TT4900
	For low power	0.1 A	30 V AC/DC	0.5 MW	5TT4901

Compensator







- For increasing the glow lamp load by 20 mA

U_e	Mounting width	Article No.
250 V AC	1 MW	5TT4920

5TT41 remote control switches

For special applications, rated current 16 A

				Remote control switches with central On/Off switching	Remote control switches with central and group On/Off switching
Rigid conductor cross-section				1 ... 6 mm ²	1 ... 6 mm ²
Flexible conductor cross-section, with end sleeve				1 ... 6 mm ²	1 ... 6 mm ²
					
Contacts	U_e	U_c AC	Mounting width	Auxiliary switches cannot be retrofitted	Auxiliary switches cannot be retrofitted
1 NO	250 V	230 V	1.5 MW	5TT4121-0	5TT4151-0
		24 V	1.5 MW	5TT4121-2	5TT4151-2
2 NO	400 V	230 V	1.5 MW	5TT4122-0	5TT4152-0
		24 V	1.5 MW	5TT4122-2	5TT4152-2
3 NO	400 V	230 V	2.5 MW	5TT4123-0	–
1 NO + 1 NC	250 V	115 V	1.5 MW	5TT4125-0	–

				Series remote control switch contact sequence 1 – 2 – 1+2 – 0	Shutter/blind remote control switch contact sequence 1 – 0 – 2 – 0
Rigid conductor cross-section				1 ... 6 mm ²	1 ... 6 mm ²
Flexible conductor cross-section, with end sleeve				1 ... 6 mm ²	1 ... 6 mm ²
					
Contacts	U_e	U_c AC	Mounting width	Auxiliary switches cannot be retrofitted	Auxiliary switches cannot be retrofitted
2 NO	250 V	230 V	1 MW	5TT4132-0	5TT4142-0
		24 V	1 MW	–	5TT4142-2
		12 V	1 MW	5TT4132-3	5TT4142-3

Further technical specifications

	5TT412 5TT415	5TT413 5TT414
Standards		
Standards	EN 60669-1 (VDE 0632-1)/EN 60669-1/A1/A2 EN 60669-2-2 (VDE 0632-2-2)/EN 60669-2-2	
Approvals	VDE	
Supply		
Rated operational current I_e	At p.f. = 0.6 ... 1 (AC-15)	16 A
Primary operating range	0.8 ... 1.1 × U_c	
Rated frequency f_c	50 Hz	
Rated power dissipation P_v	Magnet coil, only pulse	4.5 W/7 VA
	Per pole, max.	1.2 W
Contacts		
Contact gap	> 1.2 mm	
Minimum contact load	10 V; 100 mA	
Electrical endurance at I_e/U_e , p.f. = 0.6, incandescent lamp load 600 W	Operating cycles	50000
Incandescent lamp load (switching of incandescent lamps for 15000 switching cycles)	At AC-5b (230 V)	1200 W
Glow lamp load at 230 V		5 mA
	With 1 5TT4920 compensator	25 mA
	With 2 5TT4920 compensators	45 mA
Minimum pulse duration	50 ms	
Safety		
Different phases between magnet coil and contact	Permissible	
Clearances	Between magnet coil and contact	> 6 mm
Creepage distances	Between magnet coil and contact	> 6 mm
Rated impulse voltage U_{imp}	4 kV	
Function		
Manual operation	Yes	
Switching position indication	Yes	–
Connections		
Terminals	± Screw (Pozidriv)	PZ1
	Max. tightening torque	0.8 ... 1 Nm
Ambient conditions		
Permissible ambient temperature	–10 ... +40 °C	
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	35 °C
Degree of protection	Acc. to EN 60529	IP20, with connected conductors

Accessories

Auxiliary switches



- One device per remote control switch can be retrofitted

Contacts	Type	I_e	U_e	Mounting width	Article No.
1 CO	Standard	5 A	250 V AC	0.5 MW	5TT4900
	For low power	0.1 A	30 V AC/DC	0.5 MW	5TT4901

Compensator




- For increasing the glow lamp load by 20 mA

U_e	Mounting width	Article No.
250 V AC	1 MW	5TT4920

5TT44 remote control switches

Rated current 20 A – 63 A

	Rated operational current I_e				
	20 A	25 A	32 A	40 A	63 A
Rigid conductor cross-section	1 ... 10 mm ²	1 ... 10 mm ²	1 ... 10 mm ²	2.5 ... 25 mm ²	2.5 ... 25 mm ²
Flexible conductor cross-section, with end sleeve	1 ... 10 mm ²	1 ... 10 mm ²	1 ... 10 mm ²	2.5 ... 25 mm ²	2.5 ... 25 mm ²






Contacts	U_e	U_c AC	U_c DC	Mounting width					
For AC applications – auxiliary switches can be retrofitted									
1 NO + 1 NC	440 V	230 V	–	1 MW	5TT4405-0	5TT4425-0	5TT4455-0	–	–
				2 MW	–	–	–	5TT4465-0	5TT4475-0
		24 V	–	1 MW	5TT4405-2	5TT4425-2	5TT4455-2	–	–
				2 MW	–	–	–	5TT4465-2	5TT4475-2
1 CO	250 V	230 V	–	1 MW	5TT4407-0	–	–	–	–
		24 V	–	1 MW	5TT4407-2	–	–	–	–
2 NO	440 V	230 V	–	1 MW	5TT4402-0	5TT4422-0	5TT4452-0	–	–
				2 MW	–	–	–	5TT4462-0	5TT4472-0
		24 V	–	1 MW	5TT4402-2	5TT4422-2	5TT4452-2	–	–
				2 MW	–	–	–	5TT4462-2	5TT4472-2
2 CO	440 V	230 V	–	2 MW	–	5TT4428-0	5TT4458-0	5TT4468-0	5TT4478-0
		24 V	–	2 MW	–	5TT4428-2	5TT4458-2	5TT4468-2	5TT4478-2
4 NO	440 V	230 V	–	2 MW	–	5TT4424-0	5TT4454-0	–	–
				4 MW	–	–	–	5TT4464-0	5TT4474-0
		24 V	–	2 MW	–	5TT4424-2	5TT4454-2	–	–
				4 MW	–	–	–	5TT4464-2	5TT4474-2
2 NO + 2 NC	440 V	230 V	–	2 MW	–	5TT4426-0	5TT4456-0	–	–
				4 MW	–	–	–	5TT4466-0	5TT4476-0
		24 V	–	2 MW	–	5TT4426-2	5TT4456-2	–	–
				4 MW	–	–	–	5TT4466-2	5TT4476-2
For DC applications									
1 NO	250 V	–	24 V	1 MW	5TT4411-5	5TT4431-5	5TT4451-5	–	–
2 NO	440 V	–	24 V	1 MW	5TT4412-5	5TT4432-5	5TT4452-5	–	–
1 NO + 1 NC	440 V	–	24 V	1 MW	5TT4415-5	5TT4435-5	5TT4455-5	–	–
1 CO	250 V	–	24 V	1 MW	5TT4417-5	5TT4437-5	5TT4457-5	–	–

Further technical specifications

		5TT440	5TT442	5TT445	5TT446	5TT447
Standards						
Standards		IEC 60669-2-2			EN 60669-1 (VDE 0632-1)/EN 60669-1/A1/A2 EN 60669-2-2 (VDE 0632-2-2)/EN 60669-2-2	
Approvals		CE				
Supply						
Rated operational current I_e	At p.f. = 0.6 ... 1 (AC-15)	20 A	25 A	32 A	40 A	63 A
Rated frequency f_c		50/60 Hz				
Rated power dissipation P_v	Magnet coil, "On" pulse	13 W/18 VA			12 W/26 VA	
	Per pole, max.	1.5 W	2 W	3 W	3.5 W	
Rated operational power (AC-3)	1-phase, at 230 V	0.5 kW	0.75 kW	1.1 kW	2.2 kW	4 kW
	3-phase, at 230 V	1.5 kW	2.2 kW	3 kW	5.5 kW	11 kW
	3-phase, at 400 V	3 kW	4 kW	5.5 kW	11 kW	18.5 kW
Contacts						
Contact gap		> 3 mm				
Minimum contact load AC		10 V; 100 mA				
Electrical endurance at I_e/U_e , p. f. = 0.6, incandescent lamp load 600 W	Operating cycles	50000				
Incandescent lamp load (switching of incandescent lamps for 15000 switching cycles)	At AC-5b (230 V)	4400 W	5500 W	7000 W	8800 W	13800 W
Max. switching speed	In switching cycles per hour	600 h ⁻¹	450 h ⁻¹	360 h ⁻¹		
Safety						
Different phases between magnet coil and contact		Permissible				
Rated impulse voltage U_{imp}		3 kV				
Function						
Manual operation		Yes				
Switching position indication		Yes				
Connections						
Terminals	± Screw (Pozidriv)	Coil: PZ1, contact: PZ2				
	Max. tightening torque	Coil: 0.6 Nm, contact: 1.2 Nm			Coil: 0.6 Nm, contact: 2 Nm	
Coil conductor cross-sections		1 ... 4 mm ²				
Ambient conditions						
Permissible ambient temperature	For operation/for storage	-25 ... +55 °C/-30 ... +80 °C				
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	55 °C				
Degree of protection	Acc. to EN 60529	IP20				
Mounting position		Any (not upside down)				

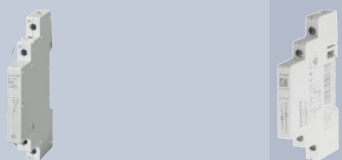
Accessories

Auxiliary switch						
	Contacts	U_e	I_e	Mounting width	Article No.	
	1 NO + 1 NC	250 V AC	16 A	0.5 MW	5TT4930	
Central switch, central with diode						
	• For central function (no auxiliary switch)					
	U_e	Mounting width	Article No.			
	250 V AC	0.5 MW	5TT4931			
Central switch, group with several diodes						
	• For group function (no auxiliary switch)					
	U_e	Mounting width	Article No.			
	250 V AC	0.5 MW	5TT4932			

5TT4 auxiliary switches

For 5TT4 remote control switches

	Auxiliary switches for 5TT41	Auxiliary switches for 5TT44
Rigid conductor cross-section	0.5 ... 2.5 mm ²	1 ... 4 mm ²
Flexible conductor cross-section, with end sleeve	0.5 ... 2.5 mm ²	1 ... 4 mm ²



Contacts	Type	I_e	U_e	Mounting width		
Auxiliary switches						
1 NO + 1 NC	Standard	16 A	250 V AC	0.5 MW	–	5TT4930
1 CO	Standard	5 A	250 V AC	0.5 MW	5TT4900	–
	For low power	0.1 A	30 V AC/DC	0.5 MW	5TT4901	–
Auxiliary switches, central with diode for central function						
			250 V AC	0.5 MW	–	5TT4931
Auxiliary switches, group with several diodes for group function						
			250 V AC	0.5 MW	–	5TT4932

Further technical specifications		Auxiliary switches for 5TT41		Auxiliary switches for 5TT44		
		5TT4900	5TT4901	5TT4930	5TT4931	5TT4932
Standards						
Standards		EN 60947-1 (VDE 0660 Part 100) EN 60947-5-1 (VDE 0660 Part 200)		IEC/EN 60947-5-1		
Approvals		–		CE, EAC		
Supply						
Rated operational current I_e	At p.f. = 0.6 ... 1 (AC-15)	16 A		4 A	–	
Rated frequency f_c		–		50/60 Hz		
Rated power dissipation P_v	Per pole, max.	–		0.3 W		
Contacts						
Contact gap		< 1.2 mm		> 3 mm		
Minimum contact load		5 V; 1 mA		12 V; 5 mA		
Electrical endurance at $I_e U_{e,r}$, p.f. = 0.6, incandescent lamp load 600 W	Operating cycles	–		100000	–	
Safety						
Clearances	Between magnet coil and contact	> 6 mm		–		
Creepage distances	Between magnet coil and contact	> 6 mm		–		
Rated impulse voltage U_{imp}		1 kV		1 kV		
Pushbutton malfunction protected against continuous voltage, safe due to design		Yes		–		
Function						
Manual operation		–		No		
Switching position indication		–		No		
Connections						
Terminals	± Screw (Pozidriv)	PZ1		PZ1		
	Max. tightening torque	0.5 Nm		0.8 Nm		
Ambient conditions						
Permissible ambient temperature	For operation/for storage	–10 ... +40 °C/–10 ... +40 °C		–25 ... +70 °C/–30 ... +80 °C		
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	35 °C		55 °C		
Degree of protection	Acc. to EN 60529	IP20, with connected conductors		IP20		
Mounting position		Any		Any (not upside down)		

Accessories

Compensator



- For increasing the glow lamp load by 20 mA

U_e	Mounting width	Article No.
250 V AC	1 MW	5TT4920

5TT42 switching relays

Rated current 16 A

Rated operational current I_e
16 A

Rigid conductor cross-section 1 ... 6 mm²
Flexible conductor cross-section, with end sleeve 1 ... 6 mm²



Contacts	U_e	U_c AC	U_c DC	Mounting width	
1 NO	250 V	230 V	–	1 MW	5TT4201-0
		115 V	–	1 MW	5TT4201-1
		24 V	–	1 MW	5TT4201-2
		12 V	–	1 MW	5TT4201-3
		8 V	–	1 MW	5TT4201-4
2 NO	400 V	230 V	–	1 MW	5TT4202-0
		115 V	–	1 MW	5TT4202-1
		24 V	–	1 MW	5TT4202-2
		12 V	–	1 MW	5TT4202-3
		8 V	–	1 MW	5TT4202-4
4 NO	400 V	230 V	–	1 MW	5TT4204-0
		115 V	–	1 MW	5TT4204-1
		24 V	–	1 MW	5TT4204-2
		12 V	–	1 MW	5TT4204-3
		8 V	–	1 MW	5TT4204-4
1 NO + 1 NC	400 V	230 V	–	1 MW	5TT4205-0
		115 V	–	1 MW	5TT4205-1
		24 V	–	1 MW	5TT4205-2
		12 V	–	1 MW	5TT4205-3
		8 V	–	1 MW	5TT4205-4
1 CO	250 V	230 V	–	1 MW	5TT4206-0
		115 V	–	1 MW	5TT4206-1
		24 V	–	1 MW	5TT4206-2
		12 V	–	1 MW	5TT4206-3
		8 V	–	1 MW	5TT4206-4
2 CO	400 V	230 V	–	1 MW	5TT4207-0
		115 V	–	1 MW	5TT4207-1
		24 V	–	1 MW	5TT4207-2
		12 V	–	1 MW	5TT4207-3
		8 V	–	1 MW	5TT4207-4
		–	110 V	1 MW	5TT4217-1
		–	30 V	1 MW	5TT4217-6
		–	24 V	1 MW	5TT4217-2
		–	12 V	1 MW	5TT4217-3
		–	–	–	–

Further technical specifications		5TT4201-	5TT4202-	5TT4204-	5TT4205-	5TT4206-	5TT4207-	5TT4217-
Standards								
Standards		EN 60947-5-1, EN 60669-2-2						
Approvals		VDE, CCC						
Supply								
Rated operational current I_e		At p.f. = 0.6 ... 1		16 A				
Primary operating range		0.8 ... $1.1 \times U_c$						
Rated frequency f_c		50 Hz						
Rated power dissipation P_v		Magnet coil		2.4 W 3.0 VA		4.8 W 6.0 VA		2.4 W 3.0 VA
		Per pole, max.		1.0 W				
Per pole, max.		1.0 W						
Contacts								
Contact gap		> 1.2 mm						
Minimum contact load		10 V AC; 100 mA						
Electrical endurance at $I_e/U_{e,r}$ p.f. = 0.6, incandescent lamp load 600 W		Operating cycles		50000				
Safety								
Different phases between magnet coil and contact		Permissible						
Safe separation		> 6 mm						
Rated impulse voltage U_{imp}		4 kV						
Function								
Manual operation		Yes						
Connections								
Terminals		± Screw (Pozidriv)		PZ1				
		Max. tightening torque		0.8 ... 1 Nm				
Ambient conditions								
Permissible ambient temperature		-10 ... +40 °C						
Resistance to climate at 95% relative humidity		Acc. to DIN 50015		35 °C				
Degree of protection		Acc. to EN 60529		IP20, with connected conductors				

Accessories

Spacer



- Contour for modular devices with a mounting depth of 70 mm
- Can be snapped onto either side of the busbar for convenient cable routing
- Spacer is recommended for better heat dissipation

Article No.

5TG8240

5TT50 Insta contactors

AC/DC technology – hum-free Insta contactors

	Rated operational current I_e			
	20 A	25 A	40 A	63 A
Main connection conductor cross-section, solid	1.0 ... 10 mm ²	1.5 ... 25 mm ²	1.5 ... 25 mm ²	1.5 ... 25 mm ²
Main connection conductor cross-section, stranded with end sleeve	1.0 ... 6 mm ²	1.5 ... 16 mm ²	1.5 ... 16 mm ²	1.5 ... 16 mm ²
Main connection conductor cross-section, AWG	16 ... 8	16 ... 4	16 ... 4	16 ... 4



Contacts	U_e	U_c AC	U_c DC	Moun- ting width				
Insta contactors with manual switch								
2 NO	230 V	230 V	220 V	1 MW	5TT5000-0	–	–	–
		24 V	24 V	1 MW	5TT5000-2	–	–	–
4 NO	400 V	230 V	220 V	2 MW	–	5TT5030-0	–	–
				3 MW	–	–	5TT5040-0	5TT5050-0
		24 V	24 V	2 MW	–	5TT5030-1	–	–
				3 MW	–	5TT5030-2	–	–
2 NC	230 V	230 V	220 V	1 MW	5TT5002-0	–	–	
		24 V	24 V	1 MW	5TT5002-2	–	–	
4 NC	400 V	230 V	220 V	2 MW	–	5TT5033-0	–	–
				3 MW	–	–	5TT5043-0	–
		24 V	24 V	2 MW	–	5TT5033-2	–	–
				3 MW	–	–	5TT5043-2	–
1 NO + 1 NC	230 V	230 V	220 V	1 MW	5TT5001-0	–	–	
		24 V	24 V	1 MW	5TT5001-2	–	–	
2 NO + 2 NC	400 V	230 V	220 V	2 MW	–	5TT5032-0	–	–
				3 MW	–	–	5TT5042-0	5TT5052-0
		24 V	24 V	2 MW	–	5TT5032-2	–	–
				3 MW	–	–	5TT5042-2	5TT5052-2
3 NO + 1 NC	400 V	230 V	220 V	2 MW	–	5TT5031-0	–	–
				3 MW	–	–	5TT5041-0	5TT5051-0
		24 V	24 V	2 MW	–	5TT5031-2	–	–
				3 MW	–	–	5TT5041-2	5TT5051-2
Insta contactors with O//Automatic								
2 NO	230 V	230 V	220 V	1 MW	5TT5000-6	–	–	
		24 V	24 V	1 MW	5TT5000-8	–	–	
4 NO	400 V	230 V	220 V	2 MW	–	5TT5030-6	–	
		24 V	24 V	2 MW	–	5TT5030-8	–	
1 NO + 1 NC	230 V	230 V	220 V	1 MW	5TT5001-6	–	–	
		24 V	24 V	1 MW	5TT5001-8	–	–	
3 NO + 1 NC	400 V	230 V	220 V	2 MW	–	5TT5031-6	–	
		24 V	24 V	2 MW	–	5TT5031-8	–	

Note:

Provision must be made for spacers to ensure heat dissipation.

See Configuration Manual – Switching devices www.siemens.com/lowvoltage/manuals (45315361).

Accessories

Spacer



- Contour for modular devices with a mounting depth of 70 mm
- Can be snapped onto either side of the busbar for convenient cable routing
- Spacer is recommended for better heat dissipation

Article No.

5TG8240


Further technical specifications


		5TT500	5TT503	5TT504	5TT505
Standards					
Standards		EN 60947-4-1; EN 60947-5-1; EN 61095			
Approvals		UL 508; UL File No. E303328			
Supply					
Rated operational current I_e	AC-1/AC-7a, NO contacts/NC contacts	20 A/20 A	25 A/25 A	40 A/40 A	63 A/63 A
	AC-3/AC-7b, NO contacts/NC contacts	9 A/6 A	8.5 A/8.5 A	22 A/22 A	30 A/30 A
Primary operating range		0.85 ... 1.1 × U_c			
Rated frequency f_c at AC		50/60 Hz			
Rated power dissipation P_v	Pick-up power (without manual switch or with manual switch in "I" position)	2.1 VA/2.1 W	2.6 VA/2.6 W	5 VA/5 W	
	Pick-up power (with manual switch in "AUTO" position)	2.1 VA/4.1 W	2.6 VA/2.6 W	5 VA/5 W	
	Holding power	2.1 VA/2.1 W	2.6 VA/2.6 W	5 VA/5 W	
	Per contact AC-1/AC-7a	1.7 VA	2.2 VA	4 VA	8 VA
Contacts					
Contact gap (NO contacts)	Min.	3.6 mm			
Minimum switching capacity	(= minimum contact load)	≥ 17 V; 50 mA			
Electrical endurance at I_e and load	AC-1/AC-7a operating cycles	200000		100000	
	AC-3/AC-7b operating cycles	300000	500000	150000	
Mechanical service life	Operating cycles	3 million			
Switching of resistive loads AC-1 for rated operational power P_s	1-phase (NO contacts)	4 kW (230 V)	5.4 kW (400 V)	8.7 kW (400 V)	13.3 kW (400 V)
	3-phase (NO contacts)	–	16 kW (400 V)	26 kW (400 V)	40 kW (400 V)
Switching of three-phase asynchronous motors AC-3 for rated operational power P_s	1-phase (NO contacts)	1.3 kW/0.75 kW	1.3 kW/1.3 kW	3.7 kW/3.7 kW	5/5 kW
	3-phase (NO contacts)	–	4 kW	11 kW	15 kW
Maximum switching frequency at load	AC-1/AC-7a/AC-3/AC-7b	600 h ⁻¹			
Safety					
Rated impulse voltage U_{imp}		≤ 4 kV			
Short-circuit protection, according to coordination type 1	Back-up fuse characteristic gL/gG	20 A	25 A	63 A	80 A
Overload withstand capability at 10 s	Per conducting path (NO contacts only)	72 A	68 A	176 A	240 A
Function					
Switching times	Closing (NO contacts)	15 ... 45 ms		15 ... 20 ms	
	Opening (NO contacts)	20 ... 50 ms	20 ... 70 ms	35 ... 45 ms	
Connections					
Coil/main connection terminals	± Screw (Pozidriv)	PZ1/PZ1	PZ1/PZ2		
Coil connection conductor cross-section	Solid	1.0 ... 2.5 mm ²			
	Stranded, with end sleeve	1.0 ... 2.5 mm ²			
	AWG cables	16 ... 10			
Main connection conductor cross-section	Solid	1.0 ... 10 mm ²	1.5 ... 25 mm ²		
	Stranded, with end sleeve	1.0 ... 6 mm ²	1.5 ... 16 mm ²		
	AWG cables	16 ... 8	16 ... 4		
Tightening torque	Coil connection	0.6 Nm/8 lbs/in.			
	Main connection	1.2 Nm/9 lbs/in.	3.5 Nm/20 lbs/in.		
Ambient conditions					
Permissible ambient temperature	For operation ¹⁾ /For storage	–15 ... +55 °C/–50 ... +80 °C			
Degree of protection	Acc. to EN 60529	IP20, with connected conductors			
Characteristics according to UL 508					
Rated operational current I_n		20 A	25 A	40 A	63 A
UL 508 General Use 240 V/480 V	FLA	20 A	25 A	40 A	63 A
UL 508 AC discharge lamps		20 A	25 A	30 A	40 A
UL 508 motor load	Power 240 V/480 V	1 hp/–	3 hp/5 hp	7.5 hp/15 hp	10 hp/20 hp
UL 508 short-circuit at 480 V	K5 fuses	20 A	25 A	60 A	70 A

¹⁾ Contactors can be operated at ambient temperatures of between –25 °C and +70 °C, but only under special conditions.

For further information, please contact Siemens Support. For questions concerning heat dissipation, please refer to the instructions in the Configuration Manual "Switching devices".

Accessories

Auxiliary switches			
	<ul style="list-style-type: none"> • For right-hand-side retrofitting • Max. one auxiliary switch per Insta contactor 		
	Contacts	Mounting width	Article No.
	2 NO	0.5 MW	5TT5910-0
	1 NO + 1 NC	0.5 MW	5TT5910-1


Sealable terminal covers			
	For Insta contactor	Mounting width	Article No.
	20 A	1 MW	5TT5910-5
	25 A	2 MW	5TT5910-6
40 A and 63 A	3 MW	5TT5910-7	

5TT58 Insta contactors

AC technology

Main connection conductor cross-section, rigid
Main connection conductor cross-section,
flexible with end sleeve

Rated operational current I_e				
20 A	25 A	32 A	40 A	63 A
1.0 ... 10 mm ²	1.0 ... 10 mm ²	1.0 ... 10 mm ²	1 ... 25 mm ²	1 ... 25 mm ²
1.0 ... 6 mm ²	1.0 ... 6 mm ²	1.0 ... 6 mm ²	1 ... 16 mm ²	1 ... 16 mm ²



Contacts	U_e	U_c AC		Mounting width				
Insta contactors without manual switch								
2 NO	230 V	230 V		1 MW	5TT5800-0	5TT5810-0	5TT5860-0	–
				2 MW new	–	–	–	5TT5870-0
4 NO	400 V	230 V	Standard	1 MW	5TT5800-2	–	–	–
				2 MW	–	5TT5830-0	–	–
				3 MW	–	–	–	5TT5840-0
		Capacitive loads up to 150 µF	2 MW	–	5TT5820-0	–	–	
			115 V	2 MW	–	5TT5830-1	–	–
			24 V	2 MW	–	5TT5830-2	–	–
2 NC	230 V	230 V		1 MW	5TT5802-0	–	–	–
				1 MW	5TT5802-2	–	–	–
4 NC	400 V	230 V		2 MW	–	5TT5833-0	–	–
				3 MW	–	–	–	5TT5843-0
		24 V	2 MW	–	5TT5833-2	–	–	
			3 MW	–	–	–	5TT5843-2	5TT5853-2
1 NO + 1 NC	230 V	230 V		1 MW	5TT5801-0	–	–	–
		24 V		1 MW	5TT5801-2	–	–	–
2 NO + 2 NC	400 V	230 V		2 MW	–	5TT5832-0	–	–
				3 MW	–	–	–	5TT5842-0
		24 V	2 MW	–	5TT5832-2	–	–	
			3 MW	–	–	–	5TT5842-2	5TT5852-2
3 NO + 1 NC	400 V	230 V		2 MW	–	5TT5831-0	–	–
				3 MW	–	–	–	5TT5841-0
		115 V	2 MW	–	5TT5831-1	–	–	
			24 V	2 MW	–	5TT5831-2	–	–
		3 MW	–	–	–	5TT5841-2	5TT5851-2	
Insta contactors with manual switch O//Automatic								
2 NO	230 V	230 V		1 MW	5TT5800-6	–	–	–
		24 V		1 MW	5TT5800-8	–	–	–
4 NO	400 V	230 V		2 MW	–	5TT5830-6	–	–
				3 MW	–	–	–	5TT5840-6
		24 V	2 MW	–	5TT5830-8	–	–	
			3 MW	–	–	–	5TT5840-8	–
1 NO + 1 NC	230 V	230 V		1 MW	5TT5801-6	–	–	–
		24 V		1 MW	5TT5801-8	–	–	–
3 NO + 1 NC	400 V	230 V		2 MW	–	5TT5831-6	–	–
				3 MW	–	–	–	5TT5841-6
		24 V	2 MW	–	5TT5831-8	–	–	
			3 MW	–	–	–	5TT5841-8	–

Note:

Provision must be made for spacers to ensure heat dissipation.

See Configuration Manual – Switching devices www.siemens.com/lowvoltage/manuals (45315361).

Further technical specifications		5TT580.	5TT581.	5TT582. 5TT583.	5TT584.	5TT585.	5TT586.	5TT587. new	
Standards									
Standards		IEC 60947-4-1, IEC 60947-5-1, IEC 61095; EN 60947-4-1, EN 60947-5-1, EN 61095, VDE 0660							
Supply									
Number of poles		2		4		2			
Rated operational current I_e		20 A	25 A		40 A	63 A	32 A	40 A	
Primary operating range		0.85 ... 1.1 × U_c							
Rated frequency f_c at AC		50/60 Hz							
Rated power dissipation P_v	Pick-up power (without manual switch or manual switch in "I" position)	6 VA/3.8 W	12 VA/10 W		10 VA/5 W	15.4 VA/4.6 W		12 VA/10 W	33 VA/25 W
	Pick-up power (with manual switch in "AUTO" position)	12 VA/10 W	–		33 VA/25 W	62 VA/50 W		–	
	Holding power	2.8 VA/1.2 W		5.5 VA/1.6 W		7.7 VA/3 W		2.8 VA/1.2 W	5.5 VA/1.6 W
	Per contact AC-1/AC-7a	1.7 VA	2.0 VA		2.2 VA	4 VA	8 VA	2.5 VA	
Contacts									
Contact gap	Minimum	3.6 mm			3.4 mm		3.6 mm		
Minimum switching capacity	(= minimum contact load)	≥ 17 V; 50 mA							
Electrical endurance at I_e and load	AC-1/AC-7a operating cycles	200000			100000		150000	100000	
	AC-3/AC-7b operating cycles	300000			500000	150000		300000	150000
Mechanical service life	Operating cycles	3 million							
Switching of resistive loads AC-1/AC-7a for rated operational power P_s	1-phase (230 V) (NO contacts)	4 kW	5.4 kW		8.7 kW	13.3 kW	5.9 kW	3.7 kW	
	3-phase (400 V) (NO contacts)	–			16 kW	26 kW	40 kW	–	
Switching of 3-phase asynchronous motors AC-3/AC-7b for rated operational power P_s	1-phase (230 V) (NO contacts)	1.3 kW ¹⁾	1.3 kW		3.7 kW	5 kW	1.3 kW	–	
	3-phase (400 V) (NO contacts)	–			4 kW	11 kW	15 kW	–	
Maximum switching frequency at load		600 h ⁻¹							
Safety									
Rated insulation voltage U_i		440 V			500 V		440 V	230 V	
Rated impulse voltage U_{imp}		4 kV							
Short-circuit protection, according to coordination type 1	Back-up fuse characteristic gL/gG	20 A	25 A		63 A	80 A	32 A	63 A	
Overload withstand capability at 10 s	Per conducting path (NO contacts only)	72 A		68 A	176 A	240 A	72 A	176 A	
Function									
Switching times	Closing (NO contacts)	15 ... 25 ms		10 ... 20 ms	15 ... 20 ms		15 ... 25 ms	10 ... 20 ms	
	Opening (NO contacts)	20 ms	10 ... 30 ms		20 ms	10 ms		10 ... 30 ms	10 ... 15 ms
	Closing (NC contacts)	20 ... 30 ms	–		20 ... 30 ms	5 ... 10 ms		–	
	Opening (NC contacts)	10 ms	–		10 ms	10 ... 15 ms		–	
Connections									
Coil connection terminals	± Screw (Pozidriv)	PZ1							
Main connection terminals	± Screw (Pozidriv)	PZ1			PZ2		PZ1		
Coil connection conductor cross-section	Rigid	1.0 ... 2.5 mm ²							
	Flexible, with end sleeve	1.0 ... 2.5 mm ²							
Main connection conductor cross-section	Rigid	1.0 ... 10 mm ²			1 ... 25 mm ²		1.0 ... 10 mm ²	1.5 ... 25 mm ²	
	Flexible, with end sleeve	1.0 ... 6 mm ²			1 ... 16 mm ²		1.0 ... 6 mm ²	1.5 ... 16 mm ²	
Tightening torque	Coil connection	0.6 Nm							
	Main connection	1.2 Nm			3.5 Nm		1.2 Nm	2.5 Nm	
Ambient conditions									
Permissible ambient temperature	For operation/for storage	–5 ... +55 °C/–30 ... +80 °C							
Degree of protection	Acc. to EN 60529	IP20, with connected conductors							

¹⁾ For NO contacts only.

5TT58 Insta contactors

AC technology

Accessories

Auxiliary switches



- For right-hand-side retrofitting
- Max. one auxiliary switch per Insta contactor

Contacts	Mounting width	Article No.
2 NO	0.5 MW	5TT5910-0
1 NO + 1 NC	0.5 MW	5TT5910-1

Sealable terminal covers



For Insta contactor	Mounting width	Article No.
20 A	1 MW	5TT5910-5
25 A	2 MW	5TT5910-6
40 A and 63 A	3 MW	5TT5910-7

Spacer



- Contour for modular devices with a mounting depth of 70 mm
- Can be snapped onto either side of the busbar for convenient cable routing
- Spacer is recommended for better heat dissipation

For Insta contactor	Mounting width	Article No.
20 A	1 MW	5TG8240

5TT5 auxiliary switches

For 5TT5 Insta contactor

Rigid conductor cross-section 1 ... 2.5 mm²
Flexible conductor cross-section, with end sleeve 1 ... 2.5 mm²



Contacts	U_e AC	Mounting width	
2 NO	230 V/400 V	0.5 MW	5TT5910-0
1 NO + 1 NC	230 V/400 V	0.5 MW	5TT5910-1

5

Further technical specifications

5TT5910

Standards			
Standards			IEC 60947-5-1
Approvals			CCC
Supply			
Number of poles			2
Rated operational current I_e	230 V		6 A
	400 V		4 A
Rated frequency f_c at AC			50/60 Hz
Contacts			
Contact gap		Minimum	4 mm
Minimum switching capacity		(= minimum contact load)	≥ 12 V; 5 mA
Mechanical service life		Operating cycles	3 million
Maximum switching frequency at load			600 h ⁻¹
Safety			
Rated insulation voltage U_i			500 V
Rated impulse voltage U_{imp}			4 kV
Short-circuit protection, according to coordination type 1		Back-up fuse characteristic gL/gG	6 A
Connections			
Terminals		\pm Screw (Pozidriv)	PZ1
Conductor cross-section		Rigid	1 ... 2.5 mm ²
		Flexible, with end sleeve	1 ... 2.5 mm ²
Tightening torque			0.8 Nm
Ambient conditions			
Permissible ambient temperature		For operation/for storage	-5 ... +55 °C/-30 ... +80 °C
Degree of protection		Acc. to EN 60529	IP20, with connected conductors

5TT3 soft-starting devices

For 2-phase motor control

Rigid conductor cross-section Max. $2 \times 2.5 \text{ mm}^2$
Flexible conductor cross-section, with end sleeve Min. $1 \times 0.5 \text{ mm}^2$



Version	U_e AC	Mounting width	
3-phase	400 V	6 MW	5TT3440

Further technical specifications

5TT3440

Standards		
Standards	EN 60947-4-2 (VDE 0660-117)	
Supply		
Line/motor voltage	400 V AC	
Primary operating range	$0.8 \dots 1.1 \times U_c$	
Rated frequency f_c at AC	50/60 Hz	
Rated power	3.5 VA	
Rated power dissipation P_v at rated operational current	Coil/drive	3.5 VA
	Per contact	4.6 VA
Rated output of motor at 400 V	Max.	5500 VA
	Min.	300 VA
Startup voltage	30 ... 70%	
Starting ramp	0.1 ... 10 s	
Safety		
Quick-acting semiconductor fuse	35 A	
Function		
Switching frequency $3 \times I_N, T_{AN} = 10 \text{ s}, v_U = 20\%$	Operating cycles (up to 3 kW)	36 h ⁻¹
	Operating cycles (from 3 ... 5.5 kW)	20 h ⁻¹
Recovery time	100 ms	
Connections		
Conductor cross-section	Rigid	Max. $2 \times 2.5 \text{ mm}^2$
	Flexible, with end sleeve	Min. $1 - 0.5 \text{ mm}^2$
Ambient conditions		
Permissible ambient temperature	-20 ... +60 °C	
Resistance to climate	Acc. to EN 60068-1	20/60/4

7LF4 digital time switches

Mini



- Weekly program
- 28 programs
- Automatic daylight-saving adjustment

Contacts	U_c	Channels	Mounting width	
1 NO	230 V AC	1	1 MW	7LF4501-5

Further technical specifications

Mini

Standards		
Standards		EN 60730-1, -2-7; VDE 0631-1, -2-7
Supply		
Primary operating range		0.85 ... 1.1 × U_c
Frequency range		50/60 Hz
Rated power dissipation P_v		0.9 VA
Channels		
Rated operational voltage U_e		250 V AC
Rated operational current I_c	At p.f. = 1	16 A
	At p.f. = 0.6	10 A
Contacts		
Minimum contact load		12 V/100 mA
Electrical operating cycles	At p.f. = 1	6000 (20 A)
Mechanical operating cycles		> 5 million
Incandescent lamp load		5 A
Energy-saving lamp load		300 W
Fluorescent lamp load	Parallel p.f. correction 70 μF	60 VA
	Uncorrected	2500 VA
Safety		
Different phases between operating mechanism and contact		Permissible
Rated impulse voltage U_{imp}		4 kV
Electrostatic discharge	Acc. to IEC 61000-4-2	> 8.0 kV
EMC: Burst	Acc. to IEC 61000-4-4	> 4.4 kV
EMC: Surge	Acc. to IEC 61000-4-5	> 2.0 kV
Overvoltage category	Acc. to EN 61010-1	III
Function		
Clock errors per day	Typical	±1 s/day
Power reserve storage	Battery	3 years
Make and break cycles		1 min
Minimum switching sequences		1 min
Control input	Terminal S	–
Programs ¹⁾		28
Battery type		Li primary cell
Connections		
Terminals	± Screw (Pozidriv)	PZ1
Conductor cross-sections of main conducting path	Rigid	1.5 ... 4 mm ²
	Flexible, with end sleeve	Max. 2.5 mm ²
Ambient conditions		
Permissible ambient temperature	For operation/ for storage	–10 ... +55 °C/ –20 ... +60 °C
Resistance to climate	Acc. to EN 60068-1	10/055/21
Degree of protection	Acc. to EN 60529	IP20, with connected conductors
Protection class	Acc. to EN 61140	II

¹⁾ A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.

Top



- Weekly program
- 28 programs
- Text-assisted programming concept
 - Language: English
- Manual daylight-saving adjustment

Contacts	U_c	Channels	Mounting width	
1 CO	230 V AC	1	2 MW	7LF4511-0
2 CO	230 V AC	2	2 MW	7LF4512-0

Further technical specifications

Standards		Top
Standards		EN 60730-1, -2-7; VDE 0631-1, -2-7
Supply		
Primary operating range		0.85 ... $1.1 \times U_c$
Frequency range		50/60 Hz
Rated power dissipation P_v		2 VA
Channels		
Rated operational voltage U_e		250 V AC
Rated operational current I_e		At p.f. = 1 16 A At p.f. = 0.6 10 A
Contacts		
Minimum contact load		12 V/100 mA
Electrical operating cycles		At p.f. = 1 100000
Mechanical operating cycles		10 million
Incandescent lamp load		8 A
Energy-saving lamp load		60 VA
Fluorescent lamp load		Parallel p.f. correction 70 μ F 60 VA Uncorrected 2300 VA
Safety		
Different phases between operating mechanism and contact		Permissible ²⁾
Rated impulse voltage U_{imp}		4 kV
Electrostatic discharge		Acc. to IEC 61000-4-2 > 8.0 kV
EMC: Burst		Acc. to IEC 61000-4-4 > 4.4 kV
EMC: Surge		Acc. to IEC 61000-4-5 > 2.0 kV
Overvoltage category		Acc. to EN 61010-1 III
Function		
Clock errors per day		Typical ± 1.5 s/day
Power reserve storage		Battery 3 years
Make and break cycles		1 min
Minimum switching sequences		1 min
Control input		Terminal S No
Programs ¹⁾		28 (14 per channel)
Program memory		Captive No
Battery type		Li primary cell
Connections		
Terminals		\pm Screw (Pozidriv) PZ1
Conductor cross-sections of main conducting path		Rigid 1.5 ... 4 mm ² Flexible, with end sleeve Max. 2.5 mm ²
Ambient conditions		
Permissible ambient temperature		For operation/ for storage –20 ... +55 °C/ –20 ... +60 °C
Resistance to climate		Acc. to EN 60068-1 20/055/21
Degree of protection		Acc. to EN 60529 IP20, with connected conductors
Protection class		Acc. to EN 61140 II

¹⁾ A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.

²⁾ The combination of line voltage (230 V) and SELV is not permissible in conjunction with a 2-channel time switch. This requirement is, however, admissible in the case of 1-channel time switch.

7LF4 digital time switches

Profi



- Weekly program
- Vacation program
- Random program
- Expert mode
- Cycle function
- Text-assisted programming concept
 - 15 languages
- Simple program creation on a PC using the supplied software, with 7LF4941-0 USB adapter
- Automatic daylight-saving adjustment
- Operating hours counter, counting range: 65535 h
- Accurate to the second hh:mm:ss
- Synchronization 50/60 Hz

Contacts	U_c	Channels	Mounting width	
1 CO	230 V AC	1	2 MW	7LF4521-0
	24 V AC/DC	1	2 MW	7LF4521-2
2 CO	230 V AC	2	2 MW	7LF4522-0
	24 V AC/DC	2	2 MW	7LF4522-2

Further technical specifications

Profi

Standards		
Standards		EN 60730-1, -2-7; VDE 0631-1, -2-7
Approvals		UL File No. E301698
Supply		
Primary operating range	U_c 230 V	0.85 ... 1.1 × U_c
	U_c 24 V	0.9 ... 1.1 × U_c
Frequency range	U_c 230 V	50/60 Hz
	U_c 24 V	50/60 Hz
Rated power dissipation P_v	U_c 230 V	2 VA
	U_c 24 V	2 VA
Channels		
Rated operational voltage U_e		250 V AC
Rated operational current I_e	At p.f. = 1	16 A
	At p.f. = 0.6	10 A
Contacts		
Minimum contact load		12 V/100 mA
Electrical operating cycles	At p.f. = 1	100000
Mechanical operating cycles		10 million
Incandescent lamp load		8 A
Energy-saving lamp load		1000 W
Fluorescent lamp load	Parallel p.f. correction 70 μF	600 VA
	Uncorrected	2000 VA
Safety		
Different phases between operating mechanism and contact		Permissible ²⁾
Rated impulse voltage U_{imp}		4 kV
Electrostatic discharge	Acc. to IEC 61000-4-2	> 8.0 kV
EMC: Burst	Acc. to IEC 61000-4-4	> 4.4 kV
EMC: Surge	Acc. to IEC 61000-4-5	> 2.0 kV
Overvoltage category	Acc. to EN 61010-1	III
Function		
Clock errors per day	Typical	±0.1 s/day
Power reserve storage	Battery	5 years
Make and break cycles		1 s
Minimum switching sequences		1 s
Control input	Terminal S	No
Programs ¹⁾		28
Program memory	Captive	Yes
Battery type		Li primary cell
Connections		
Terminals	± Screw (Pozidriv)	PZ1
Conductor cross-sections of main conducting path	Rigid	1.5 ... 4 mm ²
	Flexible, with end sleeve	Max. 2.5 mm ²
Ambient conditions		
Permissible ambient temperature	For operation/for storage	-20 ... +55 °C/ -20 ... +60 °C
Resistance to climate	Acc. to EN 60068-1	20/055/21
Degree of protection	Acc. to EN 60529	IP20, with connected conductors
Protection class	Acc. to EN 61140	II

¹⁾ A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.

²⁾ The combination of line voltage (230 V) and SELV is not permissible in conjunction with a 2-channel time switch. This requirement is, however, admissible in the case of 1-channel time switch.

Astro



- Weekly program
- Vacation program
- Random program
- Expert mode
- Astro function
- Text-assisted programming concept
 - 15 languages
- Simple program creation on a PC using the supplied software, with 7LF4941-0 USB adapter
- Automatic daylight-saving adjustment
- Operating hours counter, counting range: 65535 h
- Accurate to the second hh:mm:ss
- Synchronization 50/60 Hz
- Input disable via PIN code
- Daylight-saving correction
- 1 h test

Contacts	U_c	Channels	Mounting width	
1 CO	230 V AC	1	2 MW	7LF4531-0
2 CO	230 V AC	2	2 MW	7LF4532-0

Further technical specifications

Astro




Standards		
Standards		EN 60730-1, -2-7; VDE 0631-1, -2-7
Approvals		UL File No. E301698
Supply		
Primary operating range		0.85 ... 1.1 × U_c
Frequency range		50/60 Hz
Rated power dissipation P_v		2 VA
Channels		
Rated operational voltage U_e		250 V AC
Rated operational current I_e	At p.f. = 1	16 A
	At p.f. = 0.6	10 A
Contacts		
Minimum contact load		12 V/100 mA
Electrical operating cycles	At p.f. = 1	100000
Mechanical operating cycles		10 million
Incandescent lamp load		8 A
Energy-saving lamp load		1000 W
Fluorescent lamp load	Parallel p.f. correction 70 μF	600 VA
	Uncorrected	2000 VA
Safety		
Different phases between operating mechanism and contact		Permissible ²⁾
Rated impulse voltage U_{imp}		4 kV
Electrostatic discharge	Acc. to IEC 61000-4-2	> 8.0 kV
EMC: Burst	Acc. to IEC 61000-4-4	> 4.4 kV
EMC: Surge	Acc. to IEC 61000-4-5	> 2.0 kV
Overvoltage category	Acc. to EN 61010-1	III
Function		
Clock errors per day	Typical	±0.1 s/day
Power reserve storage	Battery	5 years
Make and break cycles		1 s
Minimum switching sequences		1 s
Control input	Terminal S	Yes (with 1K clock)
Programs ¹⁾		56 (2 × 28)
Program memory	Captive	Yes
Battery type		Li primary cell
Connections		
Terminals	± Screw (Pozidriv)	PZ1
Conductor cross-sections of main conducting path	Rigid	1.5 ... 4 mm ²
	Flexible, with end sleeve	Max. 2.5 mm ²
Ambient conditions		
Permissible ambient temperature	For operation/ for storage	–20 ... +55 °C/ –20 ... +60 °C
Resistance to climate	Acc. to EN 60068-1	20/055/21
Degree of protection	Acc. to EN 60529	IP20, with connected conductors
Protection class	Acc. to EN 61140	II

¹⁾ A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.

²⁾ The combination of line voltage (230 V) and SELV is not permissible in conjunction with a 2-channel time switch. This requirement is, however, admissible in the case of 1-channel time switch.

7LF4 digital time switches

Accessories

		Mini	Top	Profi	Astro
Data keys					
	<ul style="list-style-type: none"> For Profi and Astro digital time switches Programming at the PC (7LF4941-0 USB adapter and software required) Read-in of programs to the time switch Writing of programs from the time switch Transfer of programs <ul style="list-style-type: none"> From PC to time switch and vice versa From time switch to time switch 				
Article No.					
7LF4941-1		–	–	■	■
USB adapter and software					
	<ul style="list-style-type: none"> For Profi and Astro digital time switches For the reading and writing of data keys at the PC Including programming software Including 7LF4941-1 data key for Profi and Astro Compatible with 7LF4940-1 data key (predecessor model) and 7LF4940-2 data key Can be connected via USB interface System requirements: <ul style="list-style-type: none"> Windows 7, Windows Vista, Windows 2000, Windows ME, Windows XP or Windows 98 Second Edition USB connection 40 MB free disk space 				
Article No.					
7LF4941-0		–	–	■	■
Holders for front panel installation					
	<ul style="list-style-type: none"> Universal application for devices from 1 MW ... 6 MW Cutout dimensions: <ul style="list-style-type: none"> Height 45^{+0.5} mm Width 23 mm, 41 mm, 59 mm, 77 mm, 95 mm or 113 mm 				
Article No.					
7LF9006		■	■	■	■

7LF5 mechanical time switches

Time switches without power reserve

For DIN rail

For wall mounting
(surface mounting)



Contacts	Mounting width			
With day disk				
1 NO	1 MW	7LF5300-1	–	–
1 CO	3 MW	–	7LF5300-5	–
	–	–	–	7LF5301-0
With week disk				
1 CO	3 MW	–	7LF5300-6	–

Further technical specifications

	7LF5300-1	7LF5300-5	7LF5300-6	7LF5301-0
Standards				
Standards	EN 60730-1, -2-7, UL 917, UL 917, CSA C22.2 No. 14 and 177			
Approvals	VDE, UL file: E301698			
Supply				
Rated control supply voltage U_c	230 V AC			
Primary operating range	U_c 230 V AC	0.85 ... 1.1 × U_c		
Rated frequency	50 Hz			
Frequency range	50 Hz			
Rated power dissipation P_v	1 VA			
Channels				
Rated operational voltage U_e	250 V AC			
Rated operational current I_e	At p.f. = 1	16 A		
	At p.f. = 0.6	4 A		
Contacts				
Minimum contact load	4 V/1 mA			
Electrical operating cycles	At p.f. = 1	100000		
Mechanical operating cycles	20 million			
Incandescent lamp load	5 A			
Fluorescent lamp load	Parallel p.f. correction 70 μF	60 VA		
	Uncorrected	1400 VA		
Safety				
Different phases between operating mechanism and contact	Permissible			
Electrical isolation, creepage distances and clearances	Operating mechanism	8 mm		
	Contact	6 mm		
Rated impulse voltage U_{imp}	4 kV			
Electrostatic discharge	Acc. to IEC 61000-4-2	> 8.0 kV		
EMC: Burst	Acc. to IEC 61000-4-4	> 4.4 kV		
EMC: Surge	Acc. to IEC 61000-4-5	> 2.0 kV		
Overvoltage category	Acc. to EN 61010-1	III		
Function				
Switching accuracy	±5 min	±30 min	±5 min	
Clock errors	System-synchronized			
Make and break cycles	15 min	120 min	10 min	
Minimum switching sequences	30 min	240 min	30 min	
Connections				
Terminals	± Screw (Pozidriv)	PZ1		
Conductor cross-sections of main conducting path	Rigid	1.5 ... 4 mm ²		
	Flexible, with end sleeve	Max. 2.5 mm ²		
	Flexible, without end sleeve	Max. 4 mm ²		
Ambient conditions				
Permissible ambient temperature	For operation/for storage	−10 ... +55 °C/−10 ... +60 °C		
Resistance to climate	Acc. to EN 60068-1	10/055/21		
Degree of protection	Acc. to EN 60529	IP20, with connected conductors		
Protection class	Acc. to EN 61140	II		

Accessories

Holders for front panel installation



- Universal application for devices from 1 MW ... 6 MW
- Cutout dimensions:
 - Height 45^{+0.5} mm
 - Width 23 mm, 41 mm, 59 mm, 77 mm, 95 mm or 113 mm


Article No.

7LF9006

7LF5 mechanical time switches

Time switches with power reserve

	For DIN rail		For wall mounting (surface mounting)	
Time buffering in the event of a power failure	–	–	■	–
Automatic daylight-saving adjustment	–	–	■	–
Automatic time setting for Central European time zone during commissioning	–	–	■	–



Contacts	Mounting width				
With day disk					
1 NO	1 MW	7LF5301-1	–	–	–
1 CO	3 MW	–	7LF5301-6	7LF5301-4	–
	–	–	–	–	7LF5305-0
With week disk					
1 CO	3 MW	–	7LF5301-7	7LF5301-5	–

Further technical specifications		7LF5301-1	7LF5301-4	7LF5301-5	7LF5301-6	7LF5301-7	7LF5305-0
Standards							
Standards	EN 60730-1, -2-7, UL 917, UL 917, CSA C22.2 No. 14 and 177						
Approvals	VDE, UL file: E301698						
Supply							
Rated control supply voltage U_c	230 V AC						
Primary operating range	0.85 ... 1.1 × U_c						
Rated frequency	50 Hz						
Frequency range	50/60 Hz						
Rated power dissipation P_v	1 VA	0.2 VA		1 VA			
Channels							
Rated operational voltage U_e	250 V AC						
Rated operational current I_e	At p.f. = 1	16 A					
	At p.f. = 0.6	4 A					
Contacts							
Minimum contact load	4 V/1 mA						
Electrical operating cycles	At p.f. = 1	100000					
Mechanical operating cycles	20 million						
Incandescent lamp load	5 A						
Fluorescent lamp load	Parallel p.f. correction 70 μF	60 VA					
	Uncorrected	1400 VA					
Safety							
Different phases between operating mechanism and contact	Permissible						
Electrical isolation, creepage distances and clearances	Operating mechanism	8 mm					
	Contact	6 mm					
Rated impulse voltage U_{imp}	4 kV						
Electrostatic discharge	Acc. to IEC 61000-4-2	> 8.0 kV					
EMC: Burst	Acc. to IEC 61000-4-4	> 4.4 kV					
EMC: Surge	Acc. to IEC 61000-4-5	> 2.0 kV					
Overvoltage category	Acc. to EN 61010-1	III					
Function							
Switching accuracy	±5 min		±30 min	±5 min	±30 min	±5 min	
Clock errors	±2.5 s/day	±0.2 s/day	±60 s/day	±2.5 s/day			
Power reserve storage	100 h	6 years			100 h		
Make and break cycles	15 min		120 min	15 min	120 min	15 min	
Minimum switching sequences	30 min		240 min	30 min	240 min	30 min	
Battery type	NiMH cell	Li primary cell		NiMH cell			
Minimum loading time	48 h		–	48 h			
Service life of battery	At 20 °C	6 years	10 years	6 years			
	At 40 °C	5 years					
Connections							
Terminals	± Screw (Pozidriv)	PZ1					
Conductor cross-sections of main conducting path	Rigid	1.5 ... 4 mm ²					
	Flexible, with end sleeve	Max. 2.5 mm ²					
	Flexible, without end sleeve	Max. 4 mm ²					
Ambient conditions							
Permissible ambient temperature	Storage/operation	–10 ... +60 °C/–10 ... +55 °C					
Resistance to climate	Acc. to EN 60068-1	10/055/21					
Degree of protection	Acc. to EN 60529	IP20, with connected conductors					
Protection class	Acc. to EN 61140	II					

Accessories

Holders for front panel installation





- Universal application for devices from 1 MW ... 6 MW
- Cutout dimensions:
 - Height 45^{+0.5} mm
 - Width 23 mm, 41 mm, 59 mm, 77 mm, 95 mm or 113 mm

Article No.

7LF9006

7LF6 timers for buildings



		Stairwell lighting timers	
		Standard	Multi
3-wire circuit		■	■
4-wire circuit		■	■
Zero crossing circuit		■	■
Operation		Resettable	Resettable
			
Contacts	Warning of impending switch-off	Mounting width	
1 NO	–	1 MW	7LF6310
	Flickering	1 MW	–
			7LF6311

Further technical specifications

		7LF6310	7LF6311
Supply			
Rated operational current I_e	At p.f. = 1	16 A	
Rated operational voltage U_e		250 V AC	
Rated control supply voltage U_c		230 V AC	
Frequency range		50/60 Hz	
Rated power dissipation P_v		1 W	
Rated impulse voltage U_{imp}		4 kV	
Contacts			
Channels		1	
Max. glow lamp load		25 mA	50 mA
Separate multi-voltage input		–	8 ... 230 V AC/DC
Switching capacity	Inductive p.f. = 0.6	2000 VA	
Incandescent lamp load	Max.	3680 W	
Fluorescent lamp load	Series p.f. correction	2000 VA	
	Parallel p.f. correction at 70 μ F	1000 W	
Compact fluorescent lamp load		1000 W	
LED		1000 W	
Electronic transformers		2000 VA	
Conventional transformers		2000 VA	
Function			
Setting range		0.5 ... 10 min	0.5 ... 12 min
Manual switches		Yes	
Programs		–	7 ¹⁾
Ambient conditions			
Permissible ambient temperature	For operation	–20 ... +55 °C	
	For storage	–20 ... +60 °C	
Degree of protection	Installed	IP30	
Pollution degree		2	

¹⁾ 7 functions, can be selected using selector switch on the device

5TT3 timers for industrial applications

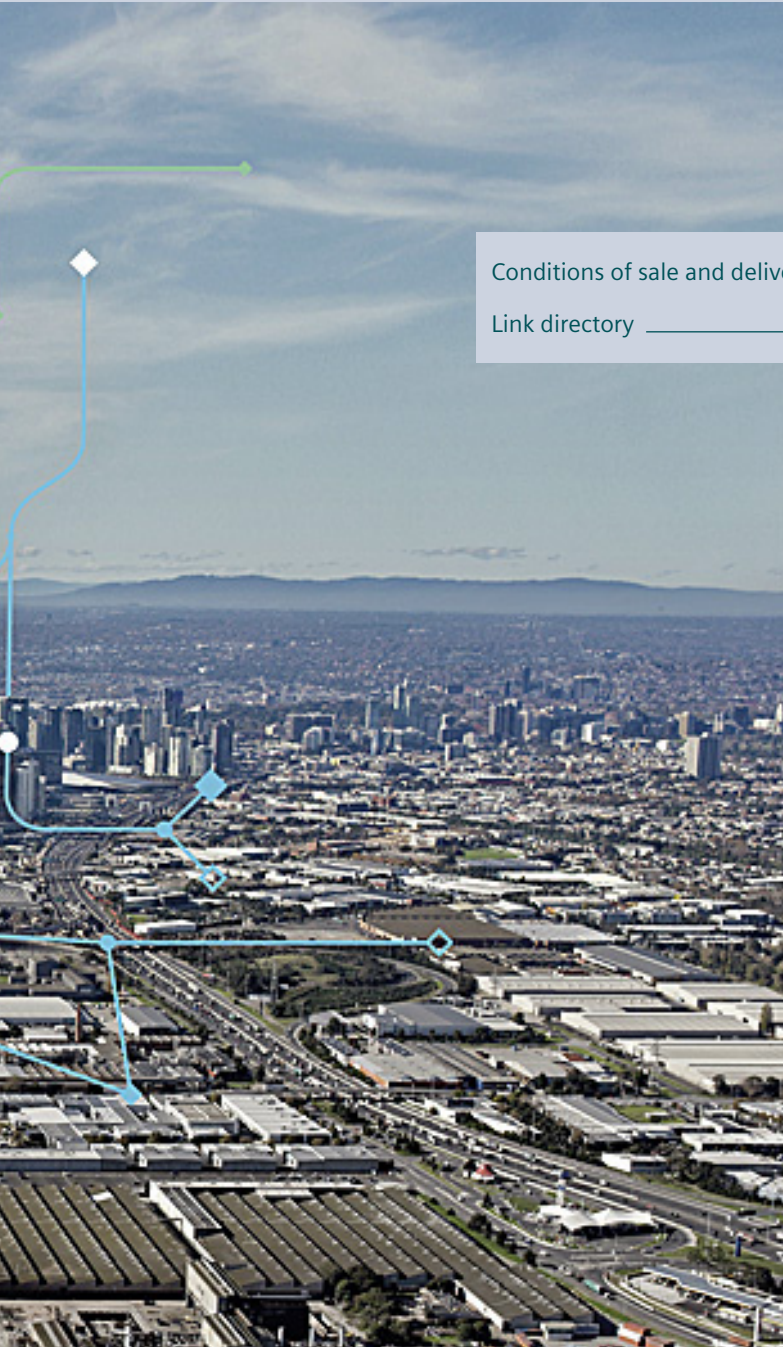
	Multifunction timers	Delay timers
Programmable for:	<ul style="list-style-type: none"> • Response delay • Passing make contact function • Pulse generator, delayed • Clock generator, starting with impulse • OFF-delay • Pulse converter • Passing break contact function • Response delay/OFF-delay 	–
		
Contacts	Mounting width	
1 CO	1 MW	
	5TT3185	5TT3181

Further technical specifications

	5TT3185	5TT3181
Standards		
Standards	EN 60255; DIN VDE 0435-110	
Supply		
Rated operational current I_e	4 A	8 A
Rated operational voltage U_e	250 V AC	
Rated control supply voltage U_c	12 ... 240 V AC	220 ... 240 V AC
	12 ... 240 V DC	–
Primary operating range	U_c 230 V AC, 50/60 Hz	
	0.8 ... 1.1 × U_c	
Rated frequency f_n	45 ... 400 Hz	50/60 Hz
Rated power dissipation P_v	Approx. 3 VA	Approx. 5 VA
Contacts		
Contact gap	µm contact	
Minimum contact load	10 V/300 mA	
Electrical endurance	Switching cycles	–
	At AC-15	1.5 × 10 ⁵
		–
		1.5 × 10 ⁵
Safety		
Rated impulse voltage U_{imp}	Input/output	> 4 kV
Function		
Setting range	1 s ... 300 h	
Recovery time	15 ... 80 ms	Approx. 40 ms
Connections		
Terminals	± Screw (Pozidriv)	PZ2
Conductor cross-sections of main conducting path	Rigid	Max. 2 × 2.5 mm ²
	Flexible, with end sleeve	Min. 2 × 1.5 mm ²
Ambient conditions		
Permissible ambient temperature	–40 ... +60 °C	
Resistance to climate	Acc. to EN 60068-1	40/60/4



Appendix



Conditions of sale and delivery _____ A/2

Link directory _____ A/4

Conditions of sale and delivery

1. General Provisions

By using this catalog you can purchase hard- and software products as well as services (together hereinafter referred to as "products") described therein from Siemens Aktiengesellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as "T&C"). Note, for products purchased from any Siemens entity having a registered office outside of Germany, the respective terms and conditions of sale and delivery of the respective Siemens entity apply exclusively. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

1.1 For customers with a seat or registered office in European Union

For customers with a seat or registered office in European Union, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the text of the product description, these specific terms and conditions shall apply and subordinate thereto,
- for stand-alone software products and software products forming a part of a product or project, the "General Conditions for Software Products for Infrastructure & Industry Business (German law)"¹⁾ and/or
- for consulting services the "Allgemeine Geschäftsbedingungen für Beratungsleistungen für Infrastructure & Industry Geschäft (Deutsches Recht)"¹⁾ (available only in German) and/or
- for other services, the "Supplementary Terms and Conditions for Services for Infrastructure & Industry Business (German Law) ("BL")"¹⁾ and/or
- for other products the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾.

In case such products should contain Open Source Software, the conditions of which shall prevail over the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾, the Product will be given a note as to which special conditions apply to this open source software. This shall apply mutatis mutandis for notices referring to other third-party software components.

1.2 For customers with a seat or registered office outside European Union

For customers with a seat or registered office outside European Union, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for consulting services the "Standard Terms and Conditions for Consulting Services for Infrastructure & Industry Business (Swiss Law)"¹⁾ and/or
- for other services the "International Terms & Conditions for Services"¹⁾ supplemented by "Software Licensing Conditions"¹⁾ and/or
- for other products the "International Terms & Conditions for Products"¹⁾ supplemented by "Software Licensing Conditions"¹⁾

1.3 For customers with master or framework agreement

To the extent products offered are covered by an existing master or framework agreement, the terms and conditions of that agreement shall apply instead of T&C.

2. Additional Terms and Conditions

The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches apply only to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the individual pages of this catalog – especially with regard to data, dimensions and weights given – these are subject to change without prior notice.

¹⁾ The text of the Terms and Conditions of Siemens AG can be downloaded at https://mall.industry.siemens.com/legal/ww/en/terms_of_trade_en.pdf

3. Export Control and Sanctions Compliance

3.1 General

Customer shall comply with all applicable sanctions, embargoes and (re-)export control laws and regulations, and, in any event, with those of the European Union, the United States of America and any locally applicable jurisdiction (collectively "Export Regulations").

3.2 Checks for Products

Prior to any transaction by customer concerning products (including hardware, documentation and technology) delivered by Siemens, or products (including maintenance and technical support) performed by Siemens with a third party, customer shall check and certify by appropriate measures that

- (i) the customer's use, transfer, or distribution of such products, the brokering of contracts or the provision of other economic resources in connection with products will not be in violation of any Export Regulations, also taking into account any prohibitions to circumvent these (e.g., by undue diversion)
- (ii) the products are not intended or provided for prohibited or unauthorized non-civilian purposes (e.g. armaments, nuclear technology, weapons, or any other usage in the field of defense and military);
- (iii) customer has screened all direct and indirect parties involved in the receipt, use, transfer, or distribution of the products against all applicable restricted party lists of the Export Regulations concerning trading with entities, persons and organizations listed therein and
- (iv) products within the scope of items-related restrictions, as specified in the respective annexes to the Export Regulations, will not, unless permitted by the Export Regulations, be (a) exported, directly or indirectly (e.g., via Eurasian Economic Union (EAEU) countries), to Russia or Belarus, or (b) resold to any third party business partner that does not take a prior commitment not to export such products to Russia or Belarus.

3.3 Non-Acceptable Use of Software and Cloud Services

Customer shall not, unless permitted by the Export Regulations or respective governmental licenses or approvals,

- (i) download, install, access or use the products from or in any location prohibited by or subject to comprehensive sanctions or subject to license requirements according to the Export Regulations;
 - (ii) grant access to, transfer, (re-)export (including any "deemed (re-)exports"), or otherwise make available the products to any entity, person, or organization identified on a restricted party list of the Export Regulations;
 - (iii) use the products for any purpose prohibited by the Export Regulations (e.g. use in connection with armaments, nuclear technology or weapons);
 - (iv) upload to a products platform any customer content unless it is non-controlled (e.g. in the EU: AL = N; in the U.S.: ECCN = N or EAR99);
 - (v) facilitate any of the afore mentioned activities by any user.
- Customer shall provide all users with all information necessary to ensure compliance with the Export Regulations.

3.4 Semiconductor Development

Customer will not, without advance written authorization from Siemens, use offerings for the development or production of integrated circuits at any semiconductor fabrication facility located in China meeting the criteria specified in the U.S. Export Administration Regulations, 15 C.F.R. 744.23.

3.5 Information

Upon request by Siemens, customer shall promptly provide Siemens with all information pertaining to users, the intended use and the location of use or the final destination (in the case of hardware, documentation and technology) of the products. Customer will notify Siemens prior to customer disclosing any information to Siemens that is defense-related or requires controlled or special data handling pursuant to applicable government regulations, and will use the disclosure tools and methods specified by Siemens.

3.6 Reservation

Siemens shall not be obligated to fulfill this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions. Customer acknowledges that Siemens may be obliged under the Export Regulations to limit or suspend access by customer and/or users to products.

4. Miscellaneous

Errors excepted and subject to change without prior notice.

Link directory

Catalog LV 10

General information

Information on low-voltage power distribution and electrical installation technology	www.siemens.com/lowvoltage
Tender specifications	www.siemens.com/tenderspecifications
Conversion tool	www.siemens.com/conversion-tool
Image database	www.siemens.com/lowvoltage/picturedb
CAX download manager	www.siemens.com/cax
Newsletter system	www.siemens.com/lowvoltage/newsletter
Siemens YouTube channel	www.youtube.com/Siemens
Catalog LV 10	www.siemens.com/lv10
Catalog LV 13	www.siemens.com/lv13
Catalog LV 18	www.siemens.com/lv18
Brochures/catalogs	www.siemens.com/lowvoltage/catalogs
Operating instructions/manuals	www.siemens.com/lowvoltage/manuals
SiePortal (knowledge base)	www.siemens.com/lowvoltage/product-support
SiePortal (product catalog)	www.siemens.com/lowvoltage/product-catalog
My Documentation Manager (MDM)	www.siemens.com/lowvoltage/mdm
Configurators	www.siemens.com/lowvoltage/configurators
Direct forwarding to SiePortal	www.siemens.com/product_catalog_SIEP?Article No.
Training	www.siemens.com/sitrain-lowvoltage
Local contacts	www.siemens.com/lowvoltage/contact www.siemens.com/lowvoltage/components/contact www.siemens.com/lowvoltage/systems/contact www.siemens.com/lowvoltage/software/contact
Technical Support	www.siemens.com/support-request
Information on services	www.siemens.com/service-offers
Control panels for the North American market	www.siemens.com/northamerican-standards
Integrated Control Panels	www.siemens.com/controlpanel
Energy savings and amortization	www.automation.siemens.com/sinasave
SIMATIC Energy Suite	www.siemens.com/energysuite
SITOP power supplies	www.siemens.com/sitop
Power distribution with Totally Integrated Power	www.siemens.com/tip
TIA Selection Tool	www.siemens.com/tst
Electrical Product Finder	www.siemens.com/electrical-product-finder
Sustainability	www.siemens.com/sustainability

Catalogs and further information



LV 10
Low-Voltage Power Distribution and Electrical Installation Technology
SENTRON • SIVACON • ALPHA
PDF (E86060-K8280-A101-B8-7600)



ET D1
Switches and Socket Outlets
DELTA
PDF (SIEP-C10409-00-7600)



LV 13
3WA Air Circuit Breakers
SENTRON
PDF (E86060-K8280-B101-A2-7600)



SiePortal
Information and Ordering Platform
on the Internet:
sieportal.siemens.com



LV 18
Air Circuit Breakers and Molded Case Circuit Breakers with UL Certification
SENTRON
PDF (E86060-K8280-E347-B1-7600)



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Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e. g. firewalls and/or network segmentation) are in place.

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