

SIEMENS

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Low-Voltage Power Distribution and Electrical Installation Technology

Monitoring Devices

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Catalog
Extract
LV 10

Edition
2025



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Catalog LV 10 · 2025

You will find the latest edition and all future editions in SiePortal at www.siemens.com/lowvoltage/catalogs

You can find the current prices in SiePortal at
www.siemens.com/lowvoltage/product-catalog



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

Well-monitored – well-protected

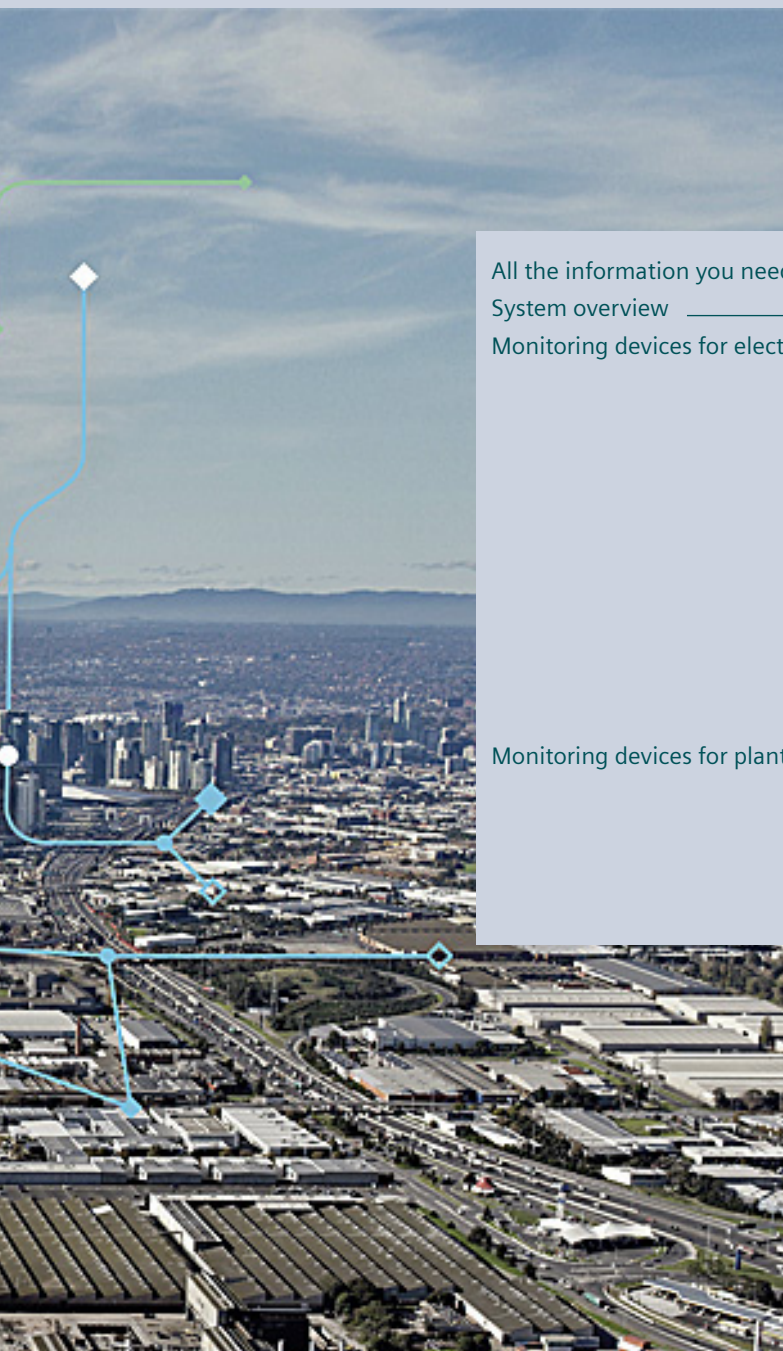
Monitoring devices perform numerous functions to protect people and machinery: At dusk, they switch on automatically, control the temperature or signal the location where a fuse has tripped.

They also ensure reliable switchover to emergency power supply, monitor the emergency lighting, ensure overload-free operation of motors and neutral monitoring for breakage and overvoltages.

Monitoring devices can do even more, e.g., underload monitoring of asynchronous motors in no-load operation.



Monitoring Devices



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A multitude of additional information ...

Information + ordering



All the important things at a glance

For information about monitoring devices, please visit our website www.siemens.com/lowvoltage



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)

- Monitoring devices sie.ag/2m3no4A

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

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... 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
- Characteristic curves
- 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
– Monitoring devices ([45316099](#))

Technical overview – Monitoring devices



The fast way to get you to our online services

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

www.siemens.com/lowvoltage/product-support (109769086)

System overview

Monitoring devices for electrical values



5SV8 residual current monitor



5SV8 modular residual current device



5TT3 and 5TT6 relay



5TT3 monitors

Accessories



Summation current transformer



Holders for DIN rails



Magnetic field centering sleeves

Monitoring devices for plants and equipment



5TT5 EMERGENCY STOP modules



5TT3 relay



7LQ2 twilight switches

Accessories






Immersion electrodes

Note:

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

5SV8 residual current monitors

Type A and type AC

	RCM analog		RCM digital	
Mounting width	2 MW		3 MW	3 MW
				
	Response time Δt		1 channel	4 channels
≤ 0.5 s	5SV8000-6KK	—	—	—
≤ 10 s, INS, SEL ¹⁾	—	5SV8001-6KK	5SV8200-6KK	

Further technical specifications

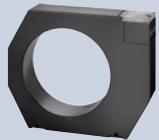
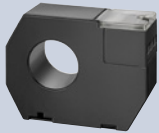
Further technical specifications		5SV8000-6KK	5SV8001-6KK	5SV8200-6KK
Standards				
Standards		EN 62020, IEC 62020		
Approvals		–	UL	
Supply				
Rated operational voltage U_e		230 V AC		
Frequency		50/60 Hz		
Rated residual current $I_{\Delta n}$	Type A	0.03 ... 3 A		5 ... 30 A
	Type AC	> 3 A		
Response time Δt		0.02 ... 5 s	0.02 ... 10 s, INS, SEL ¹⁾	
Relay contacts				
Relay contacts		1 × alarm	1 × pre-alarm, 1 × alarm	1 × pre-alarm, 4 × alarm
Rated voltage		230 V AC		
Rated current		6 A		
Summation current transformer				
Diameter		20 ... 210 mm		
Equipment				
Maximum cable length RCM/CT		10 m (shielded cable)		
Conductor cross-section		1.5 mm ²		
Test/reset		Yes/Yes		
External tripping operation/external reset		–/Yes	Yes/Yes	
Safety				
Degree of protection	Contacts	IP20		
	Front	IP41		
Ambient conditions				
Operating temperature		–10 ... +50 °C		

¹⁾ INS: Instantaneous,
SEL: Selective

Accessories

Summation current transformers

- Including holder for DIN rail or wall mounting
- Standard ☺



Mounting options	Lowest measurable residual current $I_{\Delta n \min}$	Rated current I_n	Maximum current ²⁾ I_{\max}	Internal diameter	Article No.
DIN rail	30 mA	$\leq 40 \text{ A}$	240 A	20 mm	5SV8700-0KK
		$\leq 63 \text{ A}$	380 A	30 mm	5SV8701-0KK
Wall mounting, DIN rail ¹⁾	30 mA	$\leq 80 \text{ A}$	480 A	35 mm	5SV8702-0KK
		$\leq 200 \text{ A}$	1200 A	70 mm	5SV8703-0KK
Wall mounting	100 mA	$\leq 250 \text{ A}$	1500 A	105 mm	5SV8704-0KK
	300 mA	$\leq 500 \text{ A}$	3000 A	140 mm	5SV8705-0KK
		$\leq 600 \text{ A}$	3600 A	210 mm	5SV8706-0KK

Holders for DIN rails



- Suitable for summation current transformers with internal diameter of 20 mm, 30 mm, 35 mm, 70 mm
- Cannot be used together with magnetic field centering sleeves

Article No.
5SV8900-1KK

Magnetic field centering sleeves



Internal diameter	Article No.
35 mm	5SV8902-1KK
70 mm	5SV8903-1KK
105 mm	5SV8904-1KK
140 mm	5SV8905-1KK
210 mm	5SV8906-1KK

¹⁾ The holder for DIN rails is additionally required for mounting onto the DIN rail.

²⁾ Short-time starting current, up to 2 s

5SV8 modular residual current device

Type A

Mounting width

MRCD

3 MW



Rated operational voltage U_e	Rated residual current $I_{\Delta n}$ Type A	Response time Δt	
230 V AC	0.03 ... 3 A	0.02 ... 10 s, INS, SEL ¹⁾	5SV8101-6KK

Further technical specifications

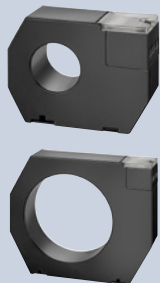
Standards		
Standards		EN 60947-2 (Annex M), IEC 60947-2 (Annex M)
Approvals		–
Supply		
Rated operational voltage U_e		230 V AC from a 1-phase auxiliary voltage source (also externally)
Frequency		50/60 Hz
Rated residual current $I_{\Delta n}$	Type A	0.03 ... 3 A (default setting: 30 mA)
	Type AC	–
Response time Δt	$I_{\Delta n} = 30 \text{ mA}$	INS instantaneous
	$I_{\Delta n} > 30 \text{ mA}$	INS – SEL – 0.06 ... 10 s ¹⁾ (default setting INS)
Relay contacts		
Relay contacts		1 × alarm, 1 × tripping operation
Rated voltage		230 V AC
Rated current		6 A
Summation current transformer		
Diameter		35 ... 210 mm
Equipment		
Maximum cable length RCM/CT		10 m (shielded cable)
Conductor cross-section		0.125 ... 2.08 mm ²
Test/reset		Yes/Yes
External tripping operation/external reset		Yes/Yes
Safety		
Degree of protection	Contacts	IP20
	Front	IP41
Ambient conditions		
Operating temperature		–10 ... +50 °C

¹⁾ INS: Instantaneous,
SEL: Selective

Accessories

Summation current transformers

- Including holder for wall mounting
- Standard ☉



Mounting options	Lowest measurable residual current $I_{\Delta n \min}$	Rated current I_n	Maximum current ²⁾ I_{\max}	Internal diameter	Article No.
Wall mounting, DIN rail ¹⁾	30 mA	$\leq 80 \text{ A}$	480 A	35 mm	5SV8702-0KK
	30 mA	$\leq 200 \text{ A}$	1200 A	70 mm	5SV8703-0KK
Wall mounting	100 mA	$\leq 250 \text{ A}$	1500 A	105 mm	5SV8704-0KK
	300 mA	$\leq 500 \text{ A}$	3000 A	140 mm	5SV8705-0KK
		$\leq 600 \text{ A}$	3600 A	210 mm	5SV8706-0KK

Holders for DIN rails



- Suitable for summation current transformers with internal diameter of 20 mm, 30 mm, 35 mm, 70 mm
- Cannot be used together with magnetic field centering sleeves

Article No.
5SV8900-1KK

Magnetic field centering sleeves

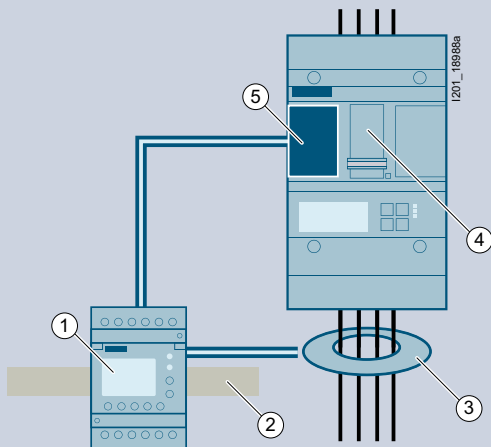


Internal diameter	Article No.
35 mm	5SV8902-1KK
70 mm	5SV8903-1KK
105 mm	5SV8904-1KK
140 mm	5SV8905-1KK
210 mm	5SV8906-1KK

¹⁾ The holder for DIN rails is additionally required for mounting onto the DIN rail.

²⁾ Short-time starting current, up to 2 s

Tested combination options



5SV8101-6KK/- (tested combinations)

① Modular residual current device

5SV8101-6KK

② DIN rail

EN 60715 – TH35 – 7.5 35 – 15

③ Summation current transformers

Magnetic field centering sleeves

Ø 35 mm	5SV8702-0KK	5SV8902-1KK
Ø 70 mm	5SV8703-0KK	5SV8903-1KK
Ø 105 mm	5SV8704-0KK	5SV8904-1KK
Ø 140 mm	5SV8705-0KK	5SV8905-1KK
Ø 210 mm	5SV8706-0KK	5SV8906-1KK

④ Molded case circuit breakers

⑤ Trip element

3VL17...	3VL9400-1UP00
3VL27...	
3VL37...	
3VL47...	
3VA10...	3VA9908-0BB11
3VA11...	3VA9908-0BB20
3VA20...	3VA9908-0BB24
3VA21...	3VA9908-0BB25
3VA22...	
3VA12...	3VA9908-0BB11
3VA23...	3VA9908-0BB20
3VA24...	3VA9908-0BB24

5SV8 modular residual current device

Type B

Mounting width **MRCD digital**
2 MW



Rated operational voltage U_e	Rated residual current $I_{\Delta n}$ Type B	Response time Δt	
230 V AC	0.03 ... 1 A	0 ... 10 s	5SV8101-4KK
24 V DC	0.03 ... 1 A	0 ... 10 s	5SV8111-4KK

Further technical specifications

5SV8101-4KK

5SV8111-4KK

Standards		
Standards		EN 60947-2 (Annex M), IEC 60947-2 (Annex M)
Supply		
Supply voltage U_s		230 V AC (70 ... 300 V AC)24 V DC (9.6 ... 94 V DC)
Frequency		50/60 Hz–
Power consumption		< 6.5 VA
Relay contacts		
Relay contacts		1 × alarm, 1 × tripping operation
Rated voltage		250 V AC
Rated current		5 A
External summation current transformer		
Internal diameter		35 ... 210 mm (5SV8701-2KK, 5SV8701-2KP, 5SV8702-2KK, 5SV8702-2KP, 5SV8703-2KK, 5SV8704-2KK)
Rated voltage	(Summation current transformers)	690 V
Response characteristic	Acc. to IEC 60947-2 (M)	Type B
Rated frequency		0 ... 2 kHz
Response residual current	$I_{\Delta n1}$ (AL1 alarm)	50 ... 100% of $I_{\Delta n2}$ (factory setting: 50%)
	$I_{\Delta n2}$ (TP2 tripping)	30 mA ... 1 A (factory setting: 30 mA)
Response delay	t_{on1} (alarm)	0 ... 10 s (factory setting: 1 s)
	t_{on2} (tripping)	0 ... 10 s (factory setting: 0 s)
Equipment		
Maximum cable length MRCD/converter		10 m (6 × 0.75 mm ²)
Password		Off/0 ... 999 (factory setting: 0)
Safety		
Degree of protection	Components (IEC 60529)	IP30
	Terminals (IEC 60529)	IP20
EMC		IEC 60947-2 (M)
Overvoltage category		III
Pollution degree		3
Mechanical data		
Width		36 mm (2 MW)
Depth		64 mm
Height		85 mm
Weight		150 g
Mounting		DIN rail
Enclosure material		Polycarbonate
Electrical connection		Screw terminals
Conductor cross-section	Rigid	0.2 ... 4 mm ²
	Flexible, with end sleeve	0.2 ... 2.5 mm ² (AWG 24 ... 12)
Stripped length		8 ... 9 mm
Tightening torque		0.5 ... 0.6 Nm
Ambient conditions		
Operating temperature		–25 ... +55 °C

Accessories

Summation current transformers



Lowest measurable residual current $I_{\Delta n \min}$	Rated current I_n	Maximum current ¹⁾ I_{\max}	Internal diameter	Version	Article No.
10 mA	≤ 80 A	500 A	35 mm	Standard	5SV8701-2KK
				With shield	5SV8701-2KP
	≤ 160 A	1000 A	60 mm	Standard	5SV8702-2KK
				With shield	5SV8702-2KP
100 mA	≤ 330 A	2000 A	120 mm	Standard	5SV8703-2KK
300 mA	≤ 630 A	3800 A	210 mm	Standard	5SV8704-2KK

Holders for DIN rails



Suitable for summation current transformers

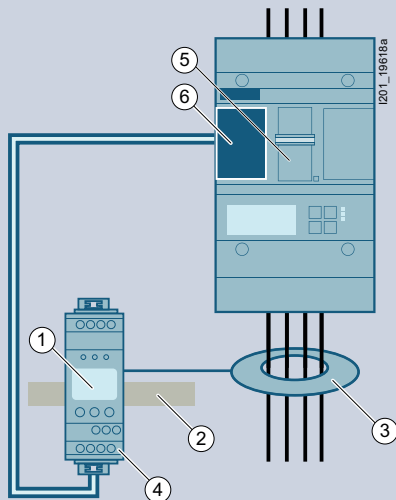
5SV8701-2KK,
5SV8701-2KP
5SV8702-2KK,
5SV8702-2KP

Article No.

5SV8900-2KK
5SV8900-3KK

¹⁾ Short-time starting current, up to 2 s

Tested combination options



5SV8101-4KK/5SV8111-4KK (tested combinations)

1 Modular residual current device

5SV8101-4KK/5SV8111-4KK

2 DIN rail

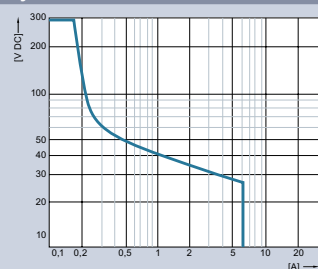
EN 60715 – TH35 – 7,5 35 – 15

3 Summation current transformers

Ø 35 mm	5SV8701-2KK/5SV8701-2KP
Ø 60 mm	5SV8702-2KK/5SV8702-2KP
Ø 120 mm	5SV8703-2KK
Ø 210 mm	5SV8704-2KK

4 Relay contacts

DC:



AC: max. 230 V, 5A

5 Molded case circuit breakers




3VA1...
3VA20...
3VA21...
3VA22...
3VA23...
3VA24...

6 Trip element

3VA9908-0BB11
3VA9908-0BB24
3VA9908-0BB25
3VA9908-0BB11
3VA9908-0BB25

5TT3 undervoltage relays

Without response delay

	For the monitoring of		
	1, 2 or 3 phases against N	3 phases against N	
Contacts	1 CO	2 CO	2 CO
Mounting width	1 MW	2 MW	2 MW
			

Rated operational voltage U_e	Rated operational current I_e	Switching thresholds	Hysteresis			
Not adjustable						
230 V AC	4 A	$0.7 \text{ and } 0.9 \times U_c$	–	5TT3400	5TT3402	5TT3404
		$0.85 \text{ and } 0.95 \times U_c$	–	5TT3401	–	5TT3405
Adjustable						
230 V AC	4 A	$0.7 \dots 0.95 \times U_c$	5%	–	–	5TT3406
		$0.9 \dots 0.95 \times U_c$	–	–	5TT3403	–

Further technical specifications

Standards			
Standards		IEC 60255, DIN VDE 0435-110, DIN VDE 0435-303	
Supply			
Rated control circuit voltage U_c		230/400 V AC	
Primary operating range (overload capability)		$1.1 \times U_c$	
Rated frequency		50/60 Hz	
Contacts			
μ contact	AC-11	4 A	
Response values	ON-switching	$0.9/0.95 \times U_c$	4% hysteresis
	OFF-switching	$0.7/0.85 \times U_c$	$0.7 \dots 0.95 \times U_c$
Minimum contact load		10 V/100 mA	
Safety			
Rated insulation voltage U_i	Between coil/contact	4 kV	
Electrical isolation, creepage distances and clearances	Actuator/contact	3 mm	5.5 mm
Rated impulse withstand voltage U_{imp}	Actuator/contact	> 2.5 kV	> 4 kV
Functions			
Phase asymmetry	Setting accuracy	–	Approx. 5 ... 10%
	Repeat accuracy	–	1
Phase failure detection	At L1 or L2 or L3	100 ms	
Functions	Monitoring of 1/2 phases against N	Yes	–
	Monitoring of 3 phases against N	Yes	
	Asymmetry (failure) detection	–	Yes
	Reverse (failure) detection	–	Yes
	Phase failure detection	Yes	
	N-conductor monitoring	–	Yes
Connection			
Terminals	± Screw (Pozidriv)	PZ 1	
Conductor cross-sections	Rigid	Max. $2 \times 2.5 \text{ mm}^2$	
	Flexible, with end sleeve	Min. $1 \times 0.5 \text{ mm}^2$	
Ambient conditions			
Permissible ambient temperature		–20 ... +60 °C	
Resistance to climate	Acc. to EN 60068-1	20/60/4	

5TT3400

5TT3401

5TT3402

5TT3403

5TT3404

5TT3405

5TT3406

With response delay

Further technical specifications		5TT3414	5TT3415
Supply			
Rated control circuit voltage U_c		230/400 V AC	
Primary operating range (overload capability)		$1.15 \times U_c$	
Rated frequency		50/60 Hz	
Contacts			
Contacts	AC-15	1 CO	2 CO
Response values	ON-switching	5% hysteresis	
	OFF-switching	$0.85 \times U_c$	
Response delay		0.5 s	
Return transfer delay		60 s	
Minimum contact load		10 V/100 mA	
Electrical endurance in operating cycles	AC-15 (1 A, 230 V AC)	1×10^5	
Safety			
Rated insulation voltage U_i	Between coil/contact	–	
Rated impulse withstand voltage	Acc. to IEC 60664-1	6 kV	
Pollution degree		2	
Functions			
Phase failure detection	At L1 or L2 or L3	500 ms	
Functions	Monitoring of 1 or 2 phases against N	Yes	
	Monitoring of 3 phases against N	Yes	
	Phase failure detection	Yes	
Connection			
Terminals	– Screw (slot)	3.5 mm	
Conductor cross-sections	Rigid	$1 \times 4 \text{ mm}^2$	
	Flexible, with end sleeve	$1 \times 2.5 \text{ mm}^2$	
Ambient conditions			
Permissible ambient temperature		–25 ... +60 °C	
Resistance to climate	Acc. to EN 60068-1	20/060/04	

5TT3 short-time voltage relay

Without response delay

For the monitoring of
1, 2 or 3 phases against N

Contacts 2 CO
Mounting width 2 MW



Rated operational voltage U_e	Rated operational current I_e	Switching thresholds	
Not adjustable			
230 V AC	4 A	$0.8 \dots 0.85 \times U_c$	5TT3407

Further technical specifications

Standards			
Standards		IEC 60255, DIN VDE 0435-303	
Supply			
Rated control circuit voltage U_c		230/400 V AC	
Primary operating range (overload capability)		$1.1 \times U_c$	
Rated frequency		50/60 Hz	
Rated operational power P_s	AC operation:	230 V and p.f. = 1	2000 VA
		230 V and p.f. = 0.4	1250 VA
	DC operation:	$U_e = 24 \text{ V}$ and $I_e = 6 \text{ A}$	Max. 100 W
		$U_e = 60 \text{ V}$ and $I_e = 1 \text{ A}$	Max. 100 W
		$U_e = 110 \text{ V}$ and $I_e = 0.6 \text{ A}$	Max. 100 W
		$U_e = 220 \text{ V}$ and $I_e = 0.5 \text{ A}$	Max. 100 W
Back-up fuse	Terminals L1/L2/L3	2 A	
Contacts			
μ contact	AC-11	3 A	
Response values	ON-switching	$0.85 \times U_c$	
	OFF-switching	$0.8 \times U_c$	
Automatic reclosing delay (return transfer delay)		0.2 ... 2 s	
Minimum contact load		10 V/100 mA	
Safety			
Rated insulation voltage U_i	Between coil/contact	4 kV	
Electrical isolation, creepage distances and clearances	Actuator/contact	4 mm	
Rated impulse withstand voltage U_{imp}	Actuator/contact	> 4 kV	
Functions			
Phase failure detection	At L1 or L2 or L3	$\geq 20 \text{ ms}$	
Phase asymmetry	Setting accuracy	Approx. 5 ... 10%	
	Repeat accuracy	1	
Functions	Monitoring of 1 or 2 phases against N	Yes	
	Monitoring of 3 phases against N	Yes	
	Phase failure detection	Yes	
	N-conductor monitoring	Yes	
Connection			
Terminals	\pm Screw (Pozidriv)	PZ 1	
Conductor cross-sections	Rigid	Max. $2 \times 2.5 \text{ mm}^2$	
	Flexible, with end sleeve	Min. $1 \times 0.5 \text{ mm}^2$	
Ambient conditions			
Permissible ambient temperature		$-20 \dots +60 \text{ }^\circ\text{C}$	
Humidity class	Acc. to IEC 60068-2-30	F	

5TT3 undervoltage and overvoltage relays

With adjustable response delay

For the monitoring of
3 phases against N

Contacts 2 CO
Mounting width 2 MW








Rated operational voltage U_e	Rated operational current I_e	Switching thresholds	Hysteresis	
Adjustable				
230 V AC	4 A	0.7 and $1.1 \times U_c$ 0.9 and $1.3 \times U_c$	4% 4%	5TT3408

Further technical specifications

Standards			
Standards			IEC 60255, DIN VDE 0435-303
Supply			
Rated control circuit voltage U_c			230/400 V AC
Primary operating range (overload capability)			$1.35 \times U_c$
Rated frequency			50/60 Hz
Back-up fuse	Terminals L1/L2/L3		2 A
Contacts			
μ contact	AC-11		1 A
Response values	Overvoltage:	ON-switching	4% hysteresis
		OFF-switching	$0.9 \dots 1.3 \times U_c$
	Undervoltage:	ON-switching	4% hysteresis
		OFF-switching	$0.7 \dots 1.1 \times U_c$
OFF-delay (response delay)			$0.1 \dots 20$ s
Automatic reclosing delay (return transfer delay)			–
Minimum contact load			10 V/100 mA
Safety			
Rated insulation voltage U_i	Between coil/contact		4 kV
Electrical isolation, creepage distances and clearances	Contact/contact		4 mm
	Actuator/contact		4 mm
Rated impulse withstand voltage U_{imp}	Actuator/contact		> 4 kV
Functions			
Phase failure detection	At L1 or L2 or L3		100 ms
Phase asymmetry	Setting accuracy		Approx. 5 ... 10%
	Repeat accuracy		1
Functions	Monitoring of 1 or 2 phases against N		–
	Monitoring of 3 phases against N		Yes
	Asymmetry detection		Yes
	Reverse voltage detection		Yes
	Phase failure detection		Yes
	N-conductor monitoring		Yes
Connection			
Terminals	\pm Screw (Pozidriv)		PZ 1
Conductor cross-sections	Rigid		Max. 2×2.5 mm ²
	Flexible, with end sleeve		Min. 1×0.5 mm ²
Ambient conditions			
Permissible ambient temperature			–20 ... +60 °C
Humidity class	Acc. to IEC 60068-2-30		F

5TT6 current relays

For 1-phase loads up to 230 V AC

				Auxiliary voltage and load voltage				
				Not isolated		Electrically isolated		
Mounting width				1 MW	1 MW	2 MW	2 MW	2 MW
								
Rated operational voltage U_e	Rated operational current I_e	Contacts	Rated control current I_c	Monitoring Undercurrent	Monitoring Overcurrent	Monitoring Undercurrent	Monitoring Overcurrent	Overcurrent/undercurrent
230 V AC	5 A	1 CO	1 ... 10 A	5TT6111	5TT6112	–	–	–
		2 CO	0.1 ... 1 A, 0.5 ... 5 A, 1 ... 10 A, 1.5 ... 15 A	–	–	5TT6113	5TT6114	5TT6115

Further technical specifications

Standards						
Standards					IEC 60255	IEC 60255 DIN VDE 0435-303
Supply						
Rated control current I_c					1 ... 10 A	0.1 ... 1 A, 0.5 ... 5 A, 1 ... 10 A, 1.5 ... 15 A
Rated control circuit voltage U_c					230 V AC	
Primary operating range					0.9 ... 1.1 × U_c	
Overload capability				Continuous	15 A	20 A
				At 50 °C ambient temperature max. 3 s	20 A	–
				Independent of measuring range, max. 3 s	–	30 A
Rated frequency					50/60 Hz	
Contacts						
μ contact (AC-15)				NO	3 A	5 A
				NC	1 A	
Response values				ON-switching	Infinitely variable	
				OFF-switching	Permanent, 4% hysteresis	
Switching delay t_v					0.1 ... 20 s, continuously adjustable	
Response time				Non-adjustable	Current corresponds to the rated operational power of the continuous-flow heater	See Siemens Service and Support Portal, search term "Article No.", e.g. "5TT6113"
Minimum contact load					10 V/100 mA	
Safety						
Rated insulation voltage U_i				Between coil/contact	2.5 kV	
Electrical isolation, creepage distances and clearances				Actuator/contact	3 mm	
Rated impulse withstand voltage U_{imp}				Actuator/contact	> 4 kV	
Connection						
Terminals				± Screw (Pozidriv)	PZ 1	
Conductor cross-sections				Rigid	Max. 2 × 2.5 mm ²	
				Flexible, with end sleeve	Min. 1 × 0.5 mm ²	
Ambient conditions						
Permissible ambient temperature					–20 ... +60 °C	
Resistance to climate				Acc. to EN 60068-1	20/60/4	

5TT3 fuse monitors

For all low-voltage fuse systems

Mounting width 2 MW



Rated operational voltage U_e	Rated operational current I_e	Rated control circuit voltage U_c	
Adjustable			
250 V AC	4 A	380 ... 415 V AC	5TT3170

Further technical specifications

Standards		
Standards		IEC 60255, DIN VDE 0435-110
Supply		
Rated operational voltage U_e		250 V AC
Rated operational current I_e	AC-1	4 A
Rated control circuit voltage U_c	3 AC	380 ... 415 V
Primary operating range		0.8 ... 1.1 × U_c
Rated frequency		50 ... 400 Hz
Contacts		
Internal resistance of measuring paths		> 1000 Ω/V
Max. permissible rear feed		90%
Response/release time		< 50 ms
Electrical endurance AC-11	In switching cycles at 1 A	1.5 × 10 ⁵
Safety		
Rated impulse withstand voltage U_{imp}	Input/output	> 4 kV
Application		
Area of application		Asymmetric, systems afflicted with harmonics, regenerative motors
Message		Also for disconnected loads
Connection		
Terminals	± Screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	Max. 2 × 2.5 mm ²
	Flexible, with end sleeve	Min. 1 × 0.5 mm ²
Ambient conditions		
Permissible ambient temperature		−20 ... +45 °C
Resistance to climate	Acc. to EN 60068-1	20/45/4

5TT3 phase monitors

For monitoring of voltages in a three-phase system

Mounting width 1 MW



Rated operational voltage U_e	Rated operational current I_e	Contacts	Rated control circuit voltage U_c	With 3 green LEDs for 3 phases
250 V AC	4 A	1 CO	230/400 V	5TT3421

Further technical specifications

Standards			
Standards			IEC 60255, DIN VDE 0435
Supply			
Rated operational voltage U_e			250 V AC
Rated operational current I_e			4 A
Rated control circuit voltage U_c			230/400 V AC
Primary operating range			0.8 ... 1.1 × U_c
Rated frequency			50/60 Hz
Rated power dissipation P_v			Electronics
			9 VA
			Contacts
			0.2 VA
Contacts			
μ contact			AC-11
			3 A
Minimum contact load			10 V/100 mA
Safety			
Rated insulation voltage U_i			Between coil/contact
			4 kV
Electrical isolation, creepage distances and clearances			Actuator/contact
			4 mm
Rated impulse withstand voltage U_{imp}			Actuator/contact
			> 2.5 kV
Degree of protection			Acc. to EN 60529
			IP20, with connected conductors
Protection class			Acc. to EN 61140/VDE 0140-1
			II
Connection			
Terminals			± Screw (Pozidriv)
			PZ 1
Conductor cross-sections			Rigid
			Max. 2 × 2.5 mm ²
			Flexible, with end sleeve
			–
Ambient conditions			
Permissible ambient temperature			–20 ... +60 °C
Resistance to climate			Acc. to EN 60068-1
			20/60/4

5TT3 phase sequence monitors

For monitoring of phase sequence in a three-phase system

Mounting width 1 MW



Rated operational voltage U_e	Rated operational current I_e	Contacts	Rated control circuit voltage U_c	With one green LED, which lights up for right-rotating field
250 V AC	4 A	1 CO	400 V	5TT3423

Further technical specifications

Standards			
Standards			IEC 60255, DIN VDE 0435
Supply			
Rated operational voltage U_e			250 V AC
Rated operational current I_e			4 A
Rated control circuit voltage U_c			400 V AC
Primary operating range			$0.8 \dots 1.1 \times U_c$
Rated frequency			50/60 Hz
Rated power dissipation P_v		Electronics	9 VA
		Contacts	0.2 VA
Contacts			
μ contact			AC-11
Minimum contact load			3 A
Minimum contact load			10 V/100 mA
Safety			
Rated insulation voltage U_i			Between coil/contact
Electrical isolation, creepage distances and clearances			Actuator/contact
Rated impulse withstand voltage U_{imp}			Actuator/contact
Degree of protection			Acc. to EN 60529
Protection class			Acc. to EN 61140/VDE 0140-1
Connection			
Terminals			± Screw (Pozidriv)
Conductor cross-sections			Rigid
			Flexible, with end sleeve
Ambient conditions			
Permissible ambient temperature			-20 ... +60 °C
Resistance to climate			Acc. to EN 60068-1
			20/60/4

5TT3 insulation monitors for industrial applications

Are used for protection of persons and against fire in non-grounded systems (IT systems)

Mounting width 2 MW



Measurement voltage range U_{meas}	Measuring range	Contacts	Rated control circuit voltage U_c	
0 ... 500 V AC	5 ... 100 kΩ	2 CO	230 V AC	5TT3470
12 ... 280 V DC	5 ... 200 kΩ	2 CO	–	5TT3471

Further technical specifications

		5TT3470	5TT3471
Supply			
Rated operational voltage U_e		230 V AC	12 ... 280 V DC
Rated operational current I_s	Thermal current I_{th}	4 A	
	DC-13 at 24 V DC	–	2 A
	DC-13 at 250 V DC	–	0.2 A
	AC-15	–	3 A
	AC-15 NO	5 A	–
	AC-15 NC	2 A	–
Supply voltage U_c	For AC supply	220 ... 240 V AC	–
Primary operating range	For AC supply	$0.8 ... 1.1 \times U_c$	–
Frequency range for U_c		45 ... 400 Hz	–
Rated power dissipation P_v	For AC supply	Approx. 2 VA	–
	For DC supply	–	Approx. 1 W
Contacts			
μ contact		2 CO	
Switching hysteresis	At R_{meas} 50 kΩ	15%	10 ... 15%
Measuring circuit			
Measuring circuit		For 3-phase and AC systems	For direct voltage systems
Measurement voltage range U_{meas}		0 ... 500 V AC	12 ... 280 V DC
Measurement voltage U_{meas}	Internal	Approx. 15 V DC	–
Primary operating range		$0 ... 1.1 \times U_{\text{meas}}$	$0.9 ... 1.1 \times U_{\text{meas}}$
Frequency range for U_{meas}		10 ... 10000 Hz	–
Alarm values	Measuring shunt R_{AL}	5 ... 100 kΩ	5 ... 200 kΩ
Setting of alarm value	On absolute scale	Infinitely variable	Infinitely variable
Alternating current internal resistance	Internal testing resistance	> 250 kΩ	–
Direct current internal resistance	Internal testing resistance	> 250 kΩ	–
	L+ and L- to PE	–	75 kΩ each
Max. measurement current I_{meas}	Short circuit	< 0.1 mA	0.2 ... 4 mA, depending on the voltage
Direct interference voltage	Max. permissible	500 V DC	–
Response delay at R_{AL} 50 kΩ and 1 μF	∞ to $0.9 \times R_{\text{meas}}$	< 1.3 s	0.8 s
	R_{meas} from ∞ to 0 Ω	< 0.7 s	0.4 s
Safety			
Rated impulse withstand voltage U_{imp}	Terminals A1 to A2	< 4 kV	
	Terminals L to PE	< 4 kV	
	Terminals A1, A2 to L, PE	< 4 kV	< 3 kV
	Terminals against contacts	< 6 kV	
Degree of protection	Terminals (according to EN 60529)	IP20	
	Enclosure (according to EN 60529)	IP40	
Connection			
Terminals	± Screw (Pozidriv)	PZ 2	
Conductor cross-sections	Rigid	Max. $2 \times 2.5 \text{ mm}^2$	
	Flexible, with end sleeve	Min. $1 \times 0.50 \text{ mm}^2$	
Ambient conditions			
Permissible ambient temperature		–20 ... +60 °C	
Resistance to climate	Acc. to EN 60068-1	20/060/04	

5TT5 EMERGENCY STOP modules

Efficient personal and machine protection in small units

Mounting width 4 MW



Rated operational voltage U_e	Rated operational current I_e	Rated control circuit voltage U_c	
400 V AC	5 A	230 V AC	5TT5200

Further technical specifications

Standards		
Standards		ISO 13849-1: 2015; EN 62061: 2005 + AC: 2010 + A1: 2013 + A2: 2015; ISO 13850: 2015; EN 60204-1: 2006 + A1: 2009 + AC: 2010 (in extracts); EN 60947-5: 2004 + A1: 2009; EN 50178: 1997; EN 61508 Parts 1-7: 2010; EN 50156-1: 2005 (in extracts)
Certification		German Technical Inspectorate Rheinland
Supply		
Primary operating range		0.8 ... 1.1 × U _c
Rated frequency f _n		50 Hz
Rated power dissipation P _v	Coil/drive	3.5 VA
	Contact per pole	0.8 VA
Control voltage	Terminal Y1	24 V AC/DC
Control current	Terminal Y1	45 mA
Contacts		
Contacts	NO AC-15	3 A
	NC AC-15	2 A
	NO/NC AC-1	5 A
Contact gap		> 1 mm
Electrical endurance	AC-15 (2 A, 230 V AC)	10 ⁵ operating cycles
Reliable switching frequency		600 operating cycles/h
Recovery time		500 ms
Safety		
Rated impulse withstand voltage U _{imp}	Actuator/contact	> 4 kV
Electrical isolation, creepage distances and clearances	Actuator/contact	3 mm
Vibration resistance	Amplitude acc. to EN 60068-2-610 (up to 55 Hz)	0.35 mm
Connection		
Terminals	± Screw (Pozidriv)	PZ 1
Conductor cross-sections of main current paths	Rigid	Max. 2 × 2.5 mm ²
	Flexible, with end sleeve	Min. 1 × 0.50 mm ²
Ambient conditions		
Permissible ambient temperature		0 ... +50 °C
Resistance to climate	Acc. to EN 60068-1	0/55/04

5TT3 level relays

For level monitoring and control

Mounting width 2 MW



Rated operational voltage U_e	Rated operational current I_e	Rated control circuit voltage U_c	
250 V AC	5 A	230 V AC	5TT3435

Further technical specifications

Standards		
Standards		IEC 60255; DIN VDE 0435-110
Supply		
Rated operational voltage U_e		250 V AC
Rated operational current I_e		5 A
Rated control circuit voltage U_c		230 V AC
Primary operating range		$0.8 \dots 1.1 \times U_c$
Rated frequency f_n		50/60 Hz
Measuring circuit		
Setting range of the liquid level		2 ... 450 kΩ
Switching point hysteresis of setting value	At 450 kΩ	3%
	At 2 kΩ	6%
Electrode voltage		Max. approx. 10 V AC
Electrode current		Max. approx. 1.5 mA AC
Response delay	Adjustable	0.2 ... 20 s
OFF-delay	Adjustable	0.2 ... 20 s
Test voltage	Input/auxiliary circuit	4 kV
	Input/output circuit	4 kV
	Auxiliary/output circuit	4 kV
Voltage temperature influence		< 2%
Max. cable length to the electrodes at 100 μF/km	Setting value 450 kΩ	50 m
	Setting value 100 kΩ	200 m
	Setting value 35 kΩ	500 m
	Setting value 10 kΩ	1500 m
	Setting value 5 kΩ	3000 m
Connection		
Terminals	± Screw (Pozidriv)	PZ 2
Conductor cross-sections	Rigid, max.	Max. $2 \times 2.5 \text{ mm}^2$
	Flexible, with end sleeve	Min. $1 \times 0.50 \text{ mm}^2$
Ambient conditions		
Permissible ambient temperature		-20 ... +60 °C
Resistance to climate	Acc. to EN 60068-1	20/60/4

Accessories

Immersion electrodes



- Made of stainless steel, with PG13 sealing cap
- Suitable for pure water in open containers

Temperature range	Connection	Article No.
0 ... 60 °C	Terminal connection	5TG8223

5TT3 line circuit relays

To interrupt circuits where there are no active loads

Mounting width 1 MW



Rated operational voltage U_e	Rated operational current I_e	Contacts	Rated control circuit voltage U_c	
250 V AC	16 A	1 NC	230 V AC	5TT3171

Further technical specifications

Standards		
Standards		IEC 60255; DIN VDE 0435-110
Supply		
Rated operational voltage U_e		250 V AC
Rated operational current I_e	AC-1	16 A
Rated control circuit voltage U_c		230 V AC
Primary operating range		$0.85 \dots 1.15 \times U_c$
Rated frequency		50/60 Hz
Rated power dissipation P_v	Electronics	5 VA
	Contacts	2.6 VA
Contacts		
Response value	Adjustable	2 ... 20 VA
Release value	% of the response value	70%
Electrical endurance	In switching cycles at 3 A (AC-11)	5×10^5
Safety		
Rated impulse withstand voltage U_{imp}	Input/output	> 4 V
Degree of protection	Acc. to IEC/EN 60529	IP20, with connected conductors
Protection class	Acc. to EN 61140/VDE 0140-1	II
Monitoring voltage		3 V
Connection		
Terminals	± Screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	Max. $2 \times 2.5 \text{ mm}^2$
	Flexible, with end sleeve	Min. $1 \times 0.50 \text{ mm}^2$
Ambient conditions		
Permissible ambient temperature		-20 ... +45 °C
Humidity class	Acc. to IEC 60068-2-30	F

Accessories

Base load resistors for electronic devices	
<ul style="list-style-type: none"> With 15 cm connection wires, end sleeves and shrink sleeving 	
	Article No.
	5TG8222

7LQ2 twilight switches

For lighting system monitoring and control

Mounting width 1 MW




Rated operational voltage U_e	Rated operational current I_e	Contacts	Rated control circuit voltage U_c	
230 V AC	16 A	1 NO	250 V AC	7LQ2300

Further technical specifications

Standards		
Standards		EN 60669-1
Supply		
Rated operational voltage U_e		230 V AC
Rated frequency f_n		50/60 Hz
Safety		
Degree of protection		IP30
Contacts		
Incandescent lamp/halogen lamp load		2000 W
Energy-saving lamp load		1000 W
Fluorescent lamp load	Series corrected	2000 W
	Parallel corrected (at max. 70 μ F)	1000 W
LV halogen lamp load ECG		2000 W
Luminosity setting		1 ... 100000 Lux
Measuring circuit		
ON/OFF-delay		Approx. 90 s
Connection		
Terminals	\pm Screw (Pozidriv)	PZ1
Conductor cross-sections	Rigid	Max. 2 \times 1.5 mm ²
Mechanical data		
Width		17.5 mm (1 MW)
Mounting		DIN rail
Ambient conditions		
Permissible ambient temperature		-20 ... +55 °C

Spare part

Light sensor		
 <ul style="list-style-type: none"> Included in the 7LQ2300 package Degree of protection IP65 	Temperature range	Article No.
	-20 ... +70 °C	
	Mounting	
	Surface mounting	7LQ2920



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

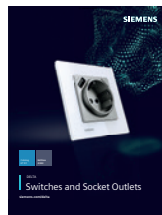
General information

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
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Online Support App	www.siemens.com/support-app
My Documentation Manager (MDM)	www.siemens.com/lowvoltage/mdm
Configurators	www.siemens.com/lowvoltage/configurators
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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
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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
Siemens EcoTech	www.siemens.com/SiemensEcoTech www.siemens.com/lowvoltage/SiemensEcoTech
SETRON product phase-out	www.siemens.com/info-sentron

Catalogs and further information



LV 10
Low-Voltage Power Distribution and Electrical Installation Technology
 SENTRON • SIVACON • ALPHA
 PDF (E86060-K8280-A101-B9-7600)



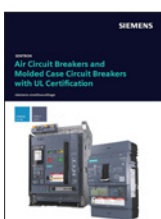
ET D1
Switches and Socket Outlets
 DELTA
 PDF (SIEP-C10409-00-7600)



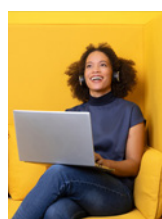
LV 13
3WA Air Circuit Breakers
 SENTRON
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LV 18
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Industrial Controls
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Siemens TIA Selection Tool
 for the selection, configuration and ordering of TIA products and devices
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The catalogs listed above and additional catalogs are available in PDF format at
www.siemens.com/lowvoltage/catalogs

Further information on low-voltage power distribution and electrical installation technology is available on the Internet at www.siemens.com/lowvoltage

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Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks.

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