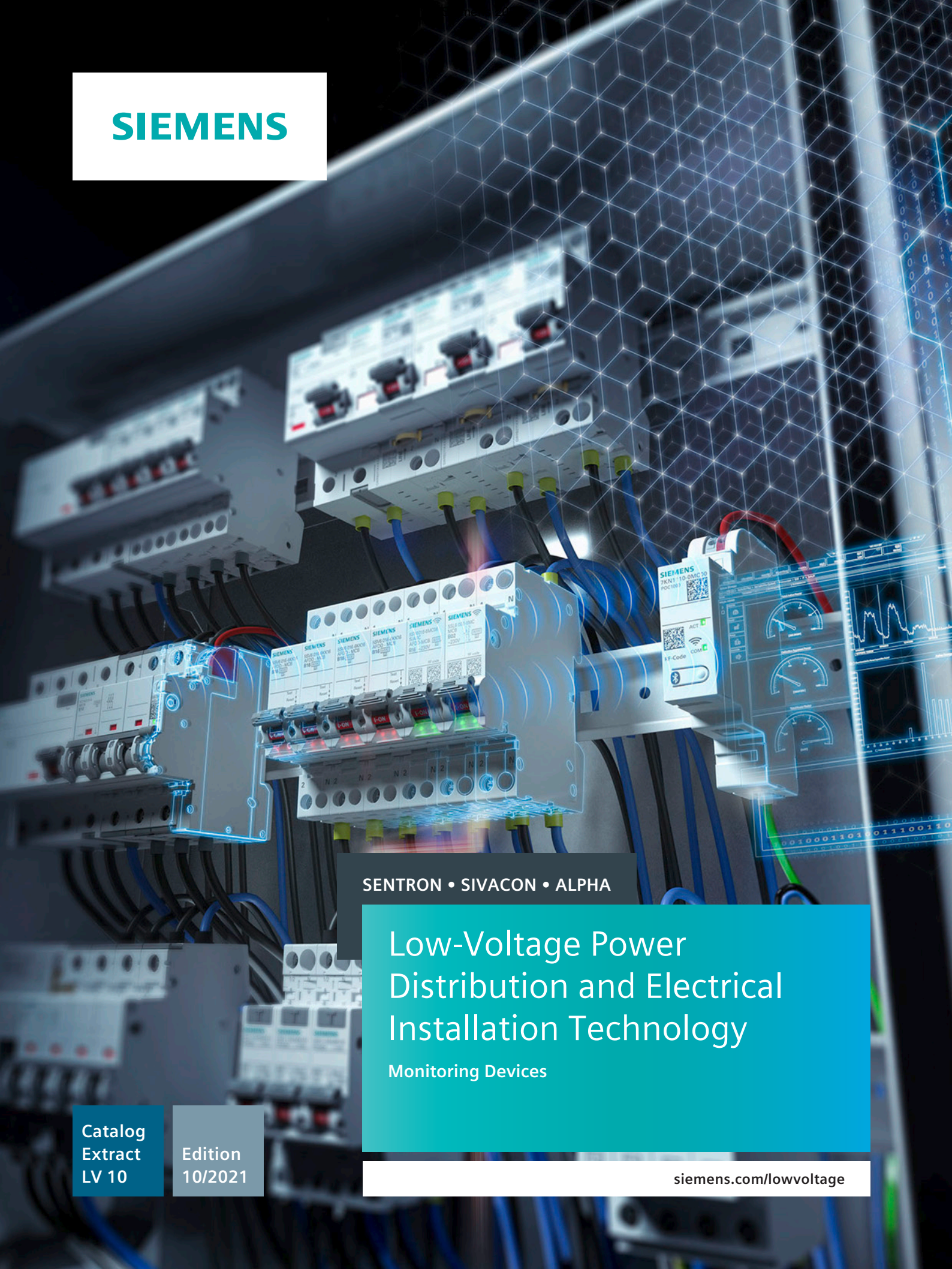


The background of the entire page is a photograph of industrial electrical equipment, specifically Siemens circuit breakers and terminal blocks, with numerous blue and black cables connected. A semi-transparent blue hexagonal grid pattern is overlaid on the right side of the image. In the bottom right corner, there is a semi-transparent blue rectangular area containing a digital interface with various gauges, graphs, and data readouts, suggesting a monitoring system.

SIEMENS

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Low-Voltage Power Distribution and Electrical Installation Technology

Monitoring Devices

Catalog
Extract
LV 10

Edition
10/2021

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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



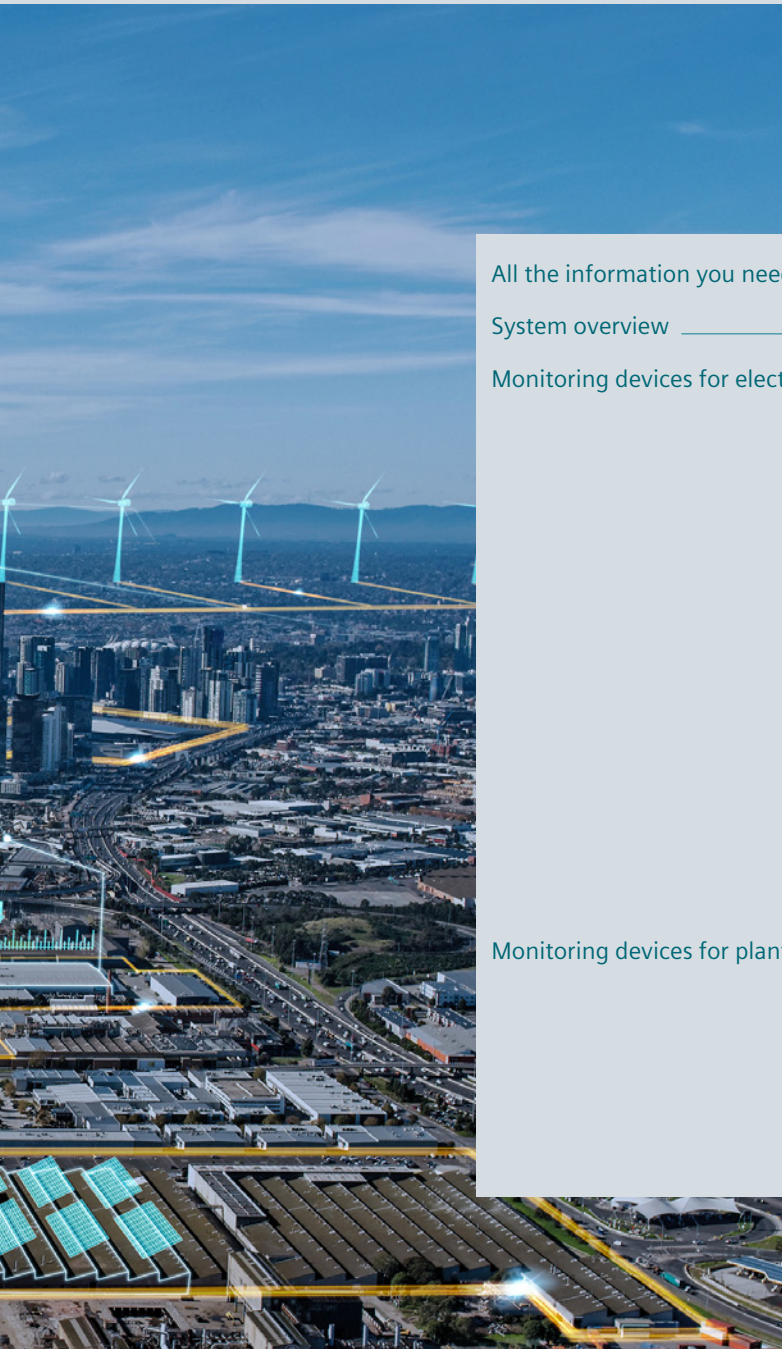
Well-monitored – well-protected

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/lowvoltage/tenderspecifications

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- Monitoring devices sie.ag/2m3no4A

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Your product in detail

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www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Comprehensive mobile support via the Siemens Industry Online Support app available for download from the [App Store](#) and [Play Store](#)

You will find further information under:

www.siemens.com/support-app

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

- Siemens Industry Mall
www.siemens.com/lowvoltage/mall
- 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 are available for downloading in Siemens Industry Online Support (SIOS) 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 standard mounting rails



Magnetic field centering sleeves

Monitoring devices for plants and equipment



5TT5 EMERGENCY STOP modules



5TT3 relay



7LQ2 dimmer 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	
Modular width	2 MW	3 MW	3 MW
			
se time Δt		1 channel	4 channels
5 s	5SV8000-6KK	—	—
10 s, INS, SEL ¹⁾	—	5SV8001-6KK	5SV8200-6KK

Further technical specifications

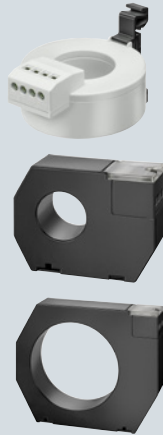
Further technical specifications		5SV8000-6KK	5SV8001-6KK	5SV8200-6KK
Standards				
Standards		EN 62020, IEC 62020		
Approvals		–	UL	
Supply				
Rated operational voltage U_e		230 V AC		
Frequency		50/60 Hz		
Rated residual current $I_{\Delta n}$	Type A	0.03 ... 3 A		
	Type AC	>3 A	5 ... 30 A	
Response 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 mm²		
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 standard mounting 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.
Standard mounting rail	30 mA	≤40 A	240 A	20 mm	5SV8700-0KK
		≤63 A	380 A	30 mm	5SV8701-0KK
Wall mounting, standard mounting rail ¹⁾	30 mA	≤80 A	480 A	35 mm	5SV8702-0KK
		≤200 A	1200 A	70 mm	5SV8703-0KK
Wall mounting	100 mA	≤250 A	1500 A	105 mm	5SV8704-0KK
	300 mA	≤500 A	3000 A	140 mm	5SV8705-0KK
		≤600 A	3600 A	210 mm	5SV8706-0KK

Holders for standard mounting 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 standard mounting rails is additionally required for mounting onto the standard mounting rail.

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

5SV8 modular residual current device

Type A

Modular 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

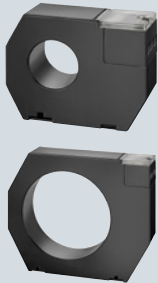
Standards		
Standards		EN 60947-2 (Annex M), IEC 60947-2 (Annex M)
Approvals		–
Supply		
Rated operational voltage U_e		230 V AC from a 1-phase auxiliary voltage source (also externally)
Frequency		50/60 Hz
Rated residual current $I_{\Delta n}$	Type A	0.03 ... 3 A (default setting: 30 mA)
	Type AC	–
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, 1x 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 mm²
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 ④



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, standard mounting rail ¹⁾	30 mA	≤80 A	480 A	35 mm	5SV8702-0KK
	30 mA	≤200 A	1200 A	70 mm	5SV8703-0KK
Wall mounting	100 mA	≤250 A	1500 A	105 mm	5SV8704-0KK
	300 mA	≤500 A	3000 A	140 mm	5SV8705-0KK
		≤600 A	3600 A	210 mm	5SV8706-0KK

Holders for standard mounting 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

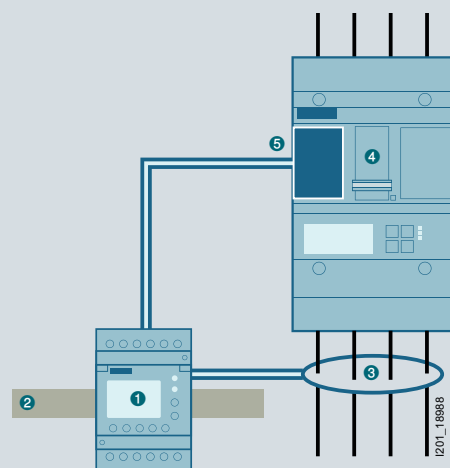


Internal diameter	Article No.
35 mm	5SV8902-1KK
70 mm	5SV8903-1KK
105 mm	5SV8904-1KK
140 mm	5SV8905-1KK
210 mm	5SV8906-1KK

¹⁾ The holder for standard mounting rails is additionally required for mounting onto the standard mounting 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 Standard mounting 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

Modular 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 mm²)	
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	
Fixing		Standard mounting rail	
Enclosure material		Polycarbonate	
Electrical connection		Screw terminals	
Conductor cross-section	Rigid	0.2 ... 4 mm²	
	Flexible, with end sleeve	0.2 ... 2.5 mm² (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 standard mounting rails



Suitable for summation current transformers

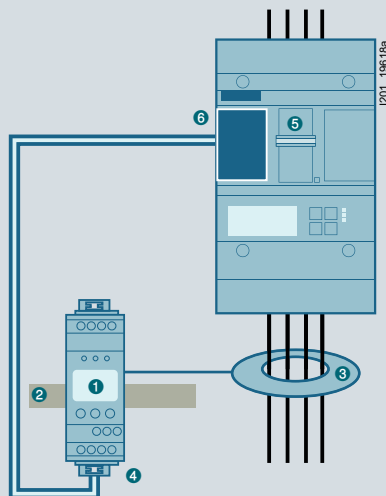
5SV8701-2KK,
5SV8701-2KP
5SV8702-2KK,
5SV8702-2KP

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 Standard mounting rail

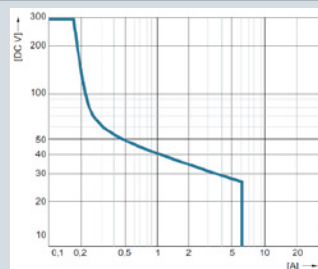
EN 60715 – TH35 – 7,5 35 – 15

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
Modular 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 and $0.9 \times U_c$	–	5TT3400	5TT3402	5TT3404
		0.85 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	
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. 2x 2.5 mm²	
	Flexible, with end sleeve	Max. 1x 0.5 mm²	
Ambient conditions			
Permissible ambient temperature		–20 ... +60 °C	
Resistance to climate	Acc. to EN 60068-1	20/60/4	

5TT3 undervoltage relays

With response delay

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

Rated operational voltage U_e	Rated operational current I_e	Switching thresholds	Hysteresis	Standard	With TEST pushbutton
Not adjustable					
230 V AC	4 A	$0.85 \times U_c$	5%	5TT3414	5TT3415

Further technical specifications

		5TT3414	5TT3415
Supply			
Rated control circuit voltage U_c		230/400 V AC	
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 service life 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
Modular 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			IEC 60255, DIN VDE 0435-303
Supply			
Rated control circuit voltage U_c		230/400 V AC	
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	Max. $1 \times 0.5 \text{ mm}^2$	
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
Modular 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
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	$0.7 \dots 1.1 \times U_c$
On/off-delay (response delay)			0.1 ... 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	± Screw (Pozidriv)		PZ 1
Conductor cross-sections	Rigid		Max. 2x 2.5 mm ²
	Flexible, with end sleeve		Max. 1x 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		Galvanically isolated		
Modular 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 ... $1.1 \times U_c$	
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. 2x 2.5 mm ²	
				Flexible, with end sleeve	Max. 1x 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

Modular 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		$0.8 \dots 1.1 \times U_c$
Rated frequency		50 ... 400 Hz
Contacts		
Internal resistance of measuring paths		$>1000 \Omega/V$
Max. permissible rear feed		90%
Response/release time		$<50 \text{ ms}$
Electrical endurance AC-11	In switching cycles at 1 A	1.5×10^5
Safety		
Rated impulse withstand voltage U_{imp}	Input/output	$>4 \text{ kV}$
Application		
Area of application		Asymmetric, systems afflicted with harmonics, regenerative motors
Message		Also for disconnected loads
Connection		
Terminals	$\pm$ Screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	Max. $2 \times 2.5 \text{ mm}^2$
	Flexible, with end sleeve	Max. $1 \times 0.5 \text{ mm}^2$
Ambient conditions		
Permissible ambient temperature		$-20 \dots +45 \text{ }^\circ\text{C}$
Resistance to climate	Acc. to EN 60068-1	20/45/4

5TT3 phase monitors

For monitoring of voltages in a 3-phase system

Modular 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
Safety class	Acc. to EN 61140/VDE 0140-1	II
Connection		
Terminals	± Screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	Max. 2x 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 3-phase system

Phase sequence monitors				
Modular 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 ... 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
Safety class	Acc. to EN 61140/VDE 0140-1	II
Connection		
Terminals	± Screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	Max. 2x 2.5 mm²
	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)

Modular width 2 MW



Measurement voltage range U_{meas}	Measuring range	Contacts	Rated control circuit voltage U_c	
0 ... 500 V AC	5 ... 100 k Ω	2 CO	230 V AC	5TT3470
12 ... 280 V DC	5 ... 200 k Ω	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 k Ω	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		$0 ... 1.1 \times U_{meas}$	$0.9 ... 1.1 \times U_{meas}$
Frequency range for U_{meas}		10 ... 10000 Hz	–
Alarm values	Measuring shunt R_{AL}	5 ... 100 k Ω	5 ... 200 k Ω
Setting of alarm value	On absolute scale	Infinitely variable	Infinitely variable
Alternating current internal resistance	Internal testing resistance	>250 k Ω	–
Direct current internal resistance	Internal testing resistance	>250 k Ω	–
	L+ and L- to PE	–	75 k Ω 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 k Ω and 1 μ F	∞ to $0.9 \times R_{meas}$	<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	$\pm$ Screw (Pozidriv)	PZ 2	
Conductor cross-sections	Rigid	Max. 2x 2.5 mm ²	
	Flexible, with end sleeve	Min. 1x 0.50 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

Modular 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		$0.8 \dots 1.1 \times U_c$
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 service life	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. $2 \times 2.5 \text{ mm}^2$
	Flexible, with end sleeve	Min. $1 \times 0.50 \text{ mm}^2$
Ambient conditions		
Permissible ambient temperature		$0 \dots +50 \text{ °C}$
Resistance to climate	Acc. to EN 60068-1	0/55/04

5TT3 level relays

For level monitoring and control

Modular 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 set 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	Set value 450 kΩ	50 m
	Set value 100 kΩ	200 m
	Set value 35 kΩ	500 m
	Set value 10 kΩ	1500 m
	Set value 5 kΩ	3000 m
Connection		
Terminals		± Screw (Pozidriv)
Conductor cross-sections	Rigid, max.	Max. 2x 2.5 mm ²
	Flexible, with end sleeve	Min. 1x 0.50 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

Modular 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 ... 1.15 × 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 service life	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
Safety class	Acc. to EN 61140/VDE 0140-1	II
Monitoring voltage		3 V
Connection		
Terminals	± Screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	Max. 2x 2.5 mm ²
	Flexible, with end sleeve	Min. 1× 0.50 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	
With 15 cm connection wires, end sleeves and shrink sleeving	
	Article No.
	5TG8222

7LQ2 dimmer switches

For lighting system monitoring and control

Modular 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 µF)	1000 W
LV halogen lamp load ECG				2000 W
Luminosity setting				1 ... 100 000 Lux
Measuring circuit				
On/off-delay				Approx. 90 s
Connection				
Terminals		± Screw (Pozidriv)		PZ1
Conductor cross-sections		Rigid		Max. 2 × 1.5 mm ²
Mechanical data				
Width				17.5 mm (1 MW)
Fixing				Standard mounting rail
Ambient conditions				
Permissible ambient temperature				−20 ... +55 °C

Spare part

Light sensor			
	- Included in the 7LQ2300 package - IP65 degree of protection		
	Temperature range	Mounting	Article No.
	−20 ... +70 °C	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 products (hardware, software and services) described therein from Siemens Aktiengesellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as „T&C“). Please note that the scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. 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 description text, 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 License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany“¹⁾ and/or
- for consulting services the „Allgemeine Geschäftsbedingungen für Beratungsleistungen der Division DF – Deutschland“ (available only in German) and/or
- for other services, the „Supplementary Terms and Conditions for Services (‘‘BL’’)¹⁾ and/or
- for other supplies the „General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry“¹⁾.

In case such supplies 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⁾, a notice will be contained in the scope of delivery in which the applicable conditions for Open Source Software are specified. 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 of the Division DF for Customers with a Seat or Registered Office Outside of Germany“¹⁾ and/or
- for other services the „International Terms & Conditions for Services“¹⁾ supplemented by „Software Licensing Conditions“¹⁾ and/or
- for other supplies of hard- and software 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 our supplies and/or services 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 Regulations

We shall not be obligated to fulfill any agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes and/or other sanctions.

Export may be subject to license. We shall indicate in the delivery details whether licenses are required under German, European and US export lists.

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If you transfer goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by us or works and services (including all kinds of technical support) performed by us to a third party worldwide, you shall comply with all applicable national and international (re-)export control regulations. In any event of such transfer of goods, works and services you shall comply with the (re-) export control regulations of the Federal Republic of Germany, of the European Union and of the United States of America.

Prior to any transfer of goods, works and services provided by us to a third party you shall in particular check and guarantee by appropriate measures that

- there will be no infringement of an embargo imposed by the European Union, by the United States of America and/or by the United Nations by such transfer, by brokering of contracts concerning those goods, works and services or by provision of other economic resources in connection with those goods, works and services, also considering the limitations of domestic business and prohibitions of by-passing those embargos;
- such goods, works and services are not intended for use in connection with armaments, nuclear technology or weapons, if and to the extent such use is subject to prohibition or authorization, unless required authorization is provided;
- the regulations of all applicable Sanctioned Party Lists of the European Union and the United States of America concerning the trading with entities, persons and organizations listed therein are considered.

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The products listed in this catalog may be subject to European/ German and/or US export regulations. Any export requiring approval is therefore subject to authorization by the relevant authorities. 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/lowvoltage/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
Brochures/catalogs	www.siemens.com/lowvoltage/catalogs
Operating instructions/manuals	www.siemens.com/lowvoltage/manuals
Siemens Industry Online Support (SIOS)	www.siemens.com/lowvoltage/product-support
Siemens Industry Online Support app	www.siemens.com/support-app
My Documentation Manager (MDM)	www.siemens.com/lowvoltage/mdm
Configurators	www.siemens.com/lowvoltage/configurators
Siemens Industry Mall – product catalog and online ordering system	www.siemens.com/lowvoltage/mall
Direct forwarding to the Industry Mall	www.siemens.com/product?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-catalog
Manual for the generation, transmission and distribution of electrical energy	www.siemens.com/power-engineering-guide
Control panels for the North American market	www.siemens.com/northamerican-standards
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Energy Suite	www.siemens.com/energysuite
SITOP power supplies	www.siemens.com/sitop
Power distribution with Totally Integrated Power	www.siemens.com/tip

Catalogs and further information



LV 10 Low-Voltage Power Distribution and Electrical Installation Technology SENTRON • SIVACON • ALPHA

Protection, Switching, Measuring and
Monitoring Devices, Switchboards and
Distribution Systems

PDF (E86060-K8280-A101-B4-7600)



LV 14 Power Monitoring Made Simple SENTRON

PDF (E86060-K1814-A101-A8-7600)



LV 18 Air Circuit Breakers and Molded Case Circuit Breakers with UL Certification SENTRON

PDF (E86060-K8280-E347-A7-7600)



ET D1 Switches and Socket Outlets DELTA

PDF



IC 10 Industrial Controls SIRIUS

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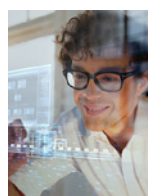
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