



OVERLOAD RELAY 3...12 A FOR MOTOR PROTECTION
SIZE S0,
CLASS 10 FOR MOUNTING ONTO CONT. MAIN CIRCUIT:
SCREW CONNECTION AUX. CIRCUIT: SCREW
CONNECTION MANUAL-AUTOMATIC-RESET

General technical details:		
Product brand name		SIRIUS
Product designation		solid-state overload relay
Protection class IP / on the front		IP20
Insulation voltage / with degree of pollution 3 / rated value	V	690
Adjustable response current • of the current-dependent overload release	A	3 ... 12
EMC emitted interference		degree of severity B according to EN 55011 (CISPR 11) and EN 55022 (CISPR 22)
Electrostatic discharge / according to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / according to IEC 61000-4-3		10 V/m
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
Conductor-bound parasitic coupling conductor-earth SURGE		2 kV (line to earth) corresponds to degree of severity 3
Conductor-bound parasitic coupling conductor-conductor SURGE		1 kV (line to line) corresponds to degree of severity 3
Resistance against shock		15g / 11 ms
Impulse voltage resistance / rated value	kV	6
Active power loss / total / typical	W	0.05
Type of protection		PTB 06 ATEX 3001 Ex II (2) GD
Type of assignment		2

Trip class		CLASS 10
Item designation		
• according to DIN EN 61346-2		F
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		F
Protection against electrical shock		finger-safe

Control circuit:		
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals

Main circuit:		
Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current / of the fuse link		
• rated value	A	20
Service power / for three-phase servomotors		
• rated value	kW	1.1 ... 5.5
Design of the electrical connection / for main current circuit		screw-type terminals
Service power / for three-phase servomotors / at 400 V / at 50 Hz		
• for AC three-phase	kW	1.1 ... 5.5

Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		acceptability for PLC control (17 V, 5 mA)
Operating current / of the auxiliary contacts		
• at AC-15		
• at 24 V	A	4
• at 110 V	A	4
• at 120 V	A	4
• at 125 V	A	4
• at 230 V	A	3
• at DC-13		
• at 24 V	A	2
• at 60 V	A	0.55
• at 110 V	A	0.3
• at 125 V	A	0.3
• at 220 V	A	0.11
Number of NC contacts		1
Number of NO contacts		1
Number of change-over switches		0

Short-circuit:		
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Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 6 A
Mechanical design:		
Built in orientation		any
Type of mounting		direct mounting
Size of the contactor / can be combined / company-specific		S0
Size of overload relay		S0
Width	mm	45
Height	mm	73
Depth	mm	75
Distance, to be maintained, to the ranks assembly		
• upwards	mm	0
• forwards	mm	0
• sideways	mm	0
• backwards	mm	0
• downwards	mm	0
Distance, to be maintained, to earthed part		
• upwards	mm	0
• forwards	mm	0
• sideways	mm	6
• backwards	mm	0
• downwards	mm	0
Distance, to be maintained, conductive elements		
• upwards	mm	0
• forwards	mm	0
• sideways	mm	6
• backwards	mm	0
• downwards	mm	0
Ambient conditions:		
Ambient temperature		
• during operating phase	°C	-25 ... 60
Ambient temperature		
• during storage	°C	-40 ... 80
Ambient temperature		
• during transport	°C	-40 ... 80
Relative humidity / during operating phase / maximum	%	100
Installation altitude / at a height over sea level / maximum	m	2,000
Protection class IP		IP20

Connections:**Product function / removable terminal for auxiliary and control circuit**

Yes

Type of the connectable conductor cross-section

- for main contacts
 - solid
 - finely stranded
 - with conductor end processing
- for AWG conductors / for main contacts

2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)

2x (14 ... 10)

Type of the connectable conductor cross-section

- for auxiliary contacts
 - solid
 - finely stranded
 - with conductor end processing
- for AWG conductors / for auxiliary contacts

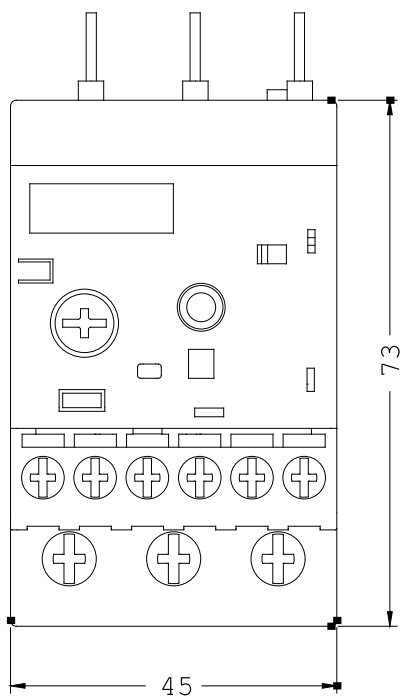
0.5 ... 4 mm², 2x (0.5 ... 2.5 mm²)0.5 ... 2.5 mm², 2x (0.5 ... 1.5 mm²)

2x (20 ... 14)

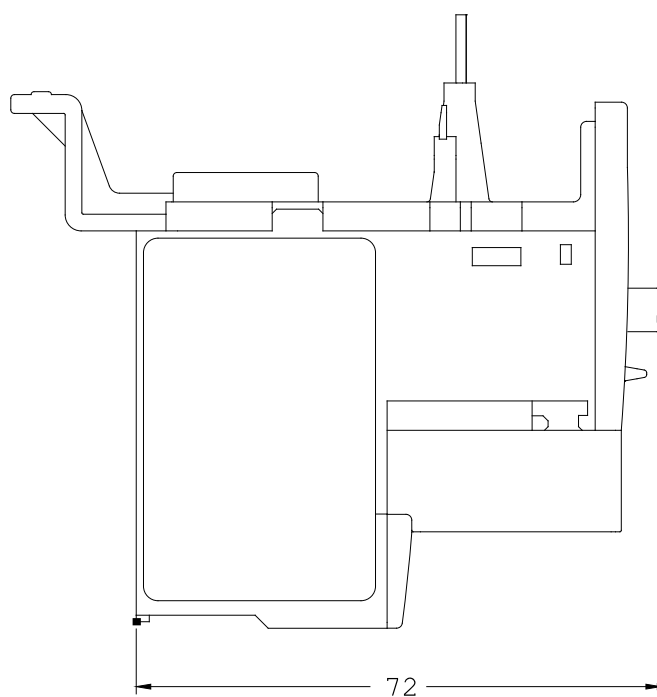
Certificates/approvals:**Verification of suitability**

CSA / UL / CCC / GL / LRS / DNV

General Product Approval**For use in hazardous locations****Test Certificates**[CQC](#)[PTB](#)[Manufacturer](#)**Shipping Approval****other**[ABS](#)[Manufacturer](#)**Further information:****Information- and Downloadcenter (Catalogs, Brochures,...)**<http://www.siemens.com/industrial-controls/catalogs>**Industry Mall (Online ordering system)**<http://www.siemens.com/industrial-controls/mall>**CAX-Online-Generator**<http://www.siemens.com/cax>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<http://support.automation.siemens.com/WW/view/en/3RB2026-1SB0/all>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB2026-1SB0



last change:



Nov 22, 2010