

OVERLOAD RELAY 3...12 A FOR MOTOR PROTECTION  
SIZE S0,  
CLASS 10 CONTACTOR ASS. MAIN CIRCUIT: SCREW  
CONN.

General technical data:		
Product brand name		SIRIUS
Product designation		solid-state overload relay
Protection class IP / frontal/front side		IP20
Insulation voltage / with degree of pollution 3 / rated value	V	690
Altitude of installation site / at a height over sea level / maximum	m	2,000
Ambient temperature		
• during storage	°C	-40 ... 80
• during transport	°C	-40 ... 80
• during the operating phase	°C	-25 ... 60
Relative humidity		
• during the operating phase	/ %	95
EMC immunity to interference		
• according to IEC 60947-1		corresponds to degree of severity 3
EMC emitted interference		
• according to IEC 60947-1		CISPR 11, environment B (residential area)
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		
• according to IEC 61000-4-5		2 kV (line to earth) corresponds to degree of severity 3
Conductor-bound parasitic coupling conductor-conductor SURGE		
• according to IEC 61000-4-5		1 kV (line to line) corresponds to degree of severity 3
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
Resistance against shock		15g / 11 ms
Impulse voltage resistance / rated value	kV	6
Real loss power / total / typical	W	0.05

<b>Item designation</b>		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		F
• according to DIN EN 61346-2		F
<b>Size of overload relay</b>		S0
<b>Size of the contactor / can be combined / company-specific</b>		S0
<b>Type of protection</b>		PTB 09 ATEX 3001 Ex II (2) GD
<b>Type of assignment</b>		2
<b>Trip class</b>		CLASS 10

#### Main circuit:

<b>Number of poles / for main current circuit</b>		3
<b>Operating voltage / at 3 AC / rated value</b>		
• maximum	V	690
<b>Operating current / at AC-3 / at 400 V</b>		
• rated value	A	12
<b>Adjustable response current</b>		
• of the current-dependent overload release	A	3 ... 12
<b>Service power / for three-phase servomotors / at 400 V / at 50 Hz</b>		
• for AC three-phase	kW	1.1 ... 5.5
<b>Operating current / of the fuse link</b>		
• rated value	A	25

#### Auxiliary circuit:

<b>Contact reliability / of the auxiliary contacts</b>		acceptability for PLC control (17 V, 5 mA)
<b>Number of NC contacts / for auxiliary contact</b>		1
<b>Number of NO contacts / for auxiliary contact</b>		1
<b>Number of change-over switches / for auxiliary contact</b>		0
<b>Operating current / of the auxiliary contacts</b>		
• 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	1
• at 110 V	A	0.3
• at 125 V	A	0.3
• at 220 V	A	1

Short-circuit:		
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 6 A
Installation/mounting/dimensions:		
built in orientation		any
Type of fixing/fixation		direct mounting
Width	mm	45
Height	mm	69.7
Depth	mm	83.5
distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	0
• downwards	mm	0
• sideways	mm	0
distance, to be maintained, to earthed part		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sideways	mm	6
distance, to be maintained, conductive elements		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sideways	mm	6
Connections:		
design of the electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Product function / removable terminal for auxiliary and control circuit		Yes
Type of the connectable conductor cross-section		
• for main contacts		
• unifilar		1x (1 ... 10 mm <sup>2</sup> ), 2x (1 ... 10 mm <sup>2</sup> )
• stranded wire		1x (1 ... 10 mm <sup>2</sup> ), 2x (1 ... 10 mm <sup>2</sup> )
• stranded wire		
• with conductor end processing		1x (1 ... 6 mm <sup>2</sup> ), 2 x (1 ... 6 mm <sup>2</sup> ), 1x (10 mm <sup>2</sup> )

- at AWG-conductors / for main contacts
- for auxiliary contact
  - solid
  - stranded wire
    - with wire end processing
- for AWG conductors / for auxiliary contacts

1x (16 ... 8), 2x (16 ... 8)

1x (0.5 ... 4 mm<sup>2</sup>), 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)

1x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.5 ... 1.5 mm<sup>2</sup>), 1x (0.5 ... 2.5 mm<sup>2</sup>)

1x (20 ... 14), 2x (20 ... 14)

#### Certificates/approvals:

##### verification of suitability

- ATEX

UL / CSA

Yes

#### Safety:

##### Protection against electrical shock

finger-safe

#### Further information:

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

##### Global Industry Mall (Online ordering system)

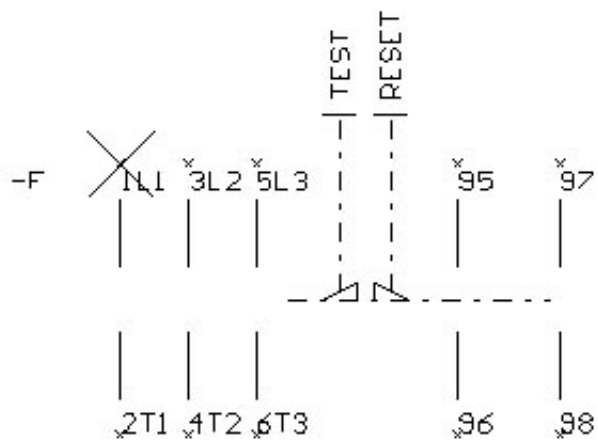
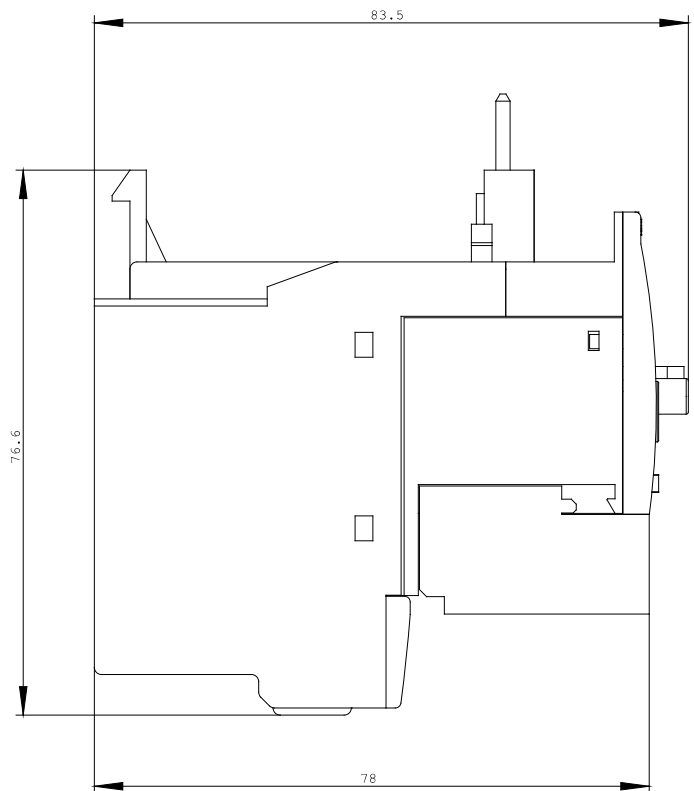
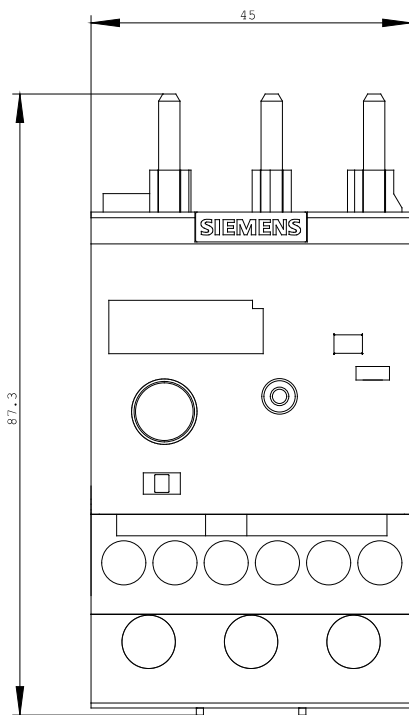
<http://www.siemens.com/industrial-controls/mall>

##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RB3026-1SB0/all>

##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RB3026-1SB0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3026-1SB0)



last change:

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