

OVERLOAD RELAY 3...12 A FOR MOTOR PROTECTION  
 SIZE S00,  
 CLASS 10 CONTACTOR ASS. MAIN CIRCUIT: SPR.-  
 LOAD.TERM.

**General technical data:**

<b>Product brand name</b>		SIRIUS
<b>Product designation</b>		solid-state overload relay
<b>Protection class IP / frontal/front side</b>		IP20
<b>Insulation voltage / with degree of pollution 3 / rated value</b>	V	690
<b>Altitude of installation site / at a height over sea level / maximum</b>	m	2,000
<b>Ambient temperature</b>		
• during storage	°C	-40 ... 80
• during transport	°C	-40 ... 80
• during the operating phase	°C	-25 ... 60
<b>Relative humidity</b>		
• during the operating phase	/ %	95
<b>EMC immunity to interference</b>		
• according to IEC 60947-1		corresponds to degree of severity 3
<b>EMC emitted interference</b>		
• according to IEC 60947-1		CISPR 11, environment B (residential area)
<b>Conductor-bound parasitic coupling BURST</b>		
• according to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
<b>Conductor-bound parasitic coupling conductor-earth SURGE</b>		
• according to IEC 61000-4-5		2 kV (line to earth) corresponds to degree of severity 3
<b>Conductor-bound parasitic coupling conductor-conductor SURGE</b>		
• according to IEC 61000-4-5		1 kV (line to line) corresponds to degree of severity 3
<b>Electrostatic discharge</b>		
• according to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
<b>Field-bound parasitic coupling</b>		
• according to IEC 61000-4-3		10 V/m
<b>Resistance against shock</b>		15g / 11 ms
<b>Impulse voltage resistance / rated value</b>	kV	6
<b>Real loss power / total / typical</b>	W	0.05

<b>Item designation</b>		
<ul style="list-style-type: none"> <li>• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> <li>• according to DIN EN 61346-2</li> </ul>		F
<b>Size of overload relay</b>		S00
<b>Size of the contactor / can be combined / company-specific</b>		S00
<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>		
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	V	690
<b>Operating current / at AC-3 / at 400 V</b>		
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	A	12
<b>Adjustable response current</b>		
<ul style="list-style-type: none"> <li>• of the current-dependent overload release</li> </ul>	A	3 ... 12
<b>Service power / for three-phase servomotors / at 400 V / at 50 Hz</b>		
<ul style="list-style-type: none"> <li>• for AC three-phase</li> </ul>	kW	1.1 ... 5.5
<b>Operating current / of the fuse link</b>		
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	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>		
<ul style="list-style-type: none"> <li>• at AC-15</li> <li> <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 110 V</li> <li>• at 120 V</li> <li>• at 125 V</li> <li>• at 230 V</li> </ul> </li> <li>• at DC-13</li> <li> <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 60 V</li> <li>• at 110 V</li> <li>• at 125 V</li> <li>• at 220 V</li> </ul> </li> </ul>	A	4
	A	4
	A	4
	A	4
	A	3
	A	2
	A	1
	A	0.3
	A	0.3
	A	1

Short-circuit:		
<b>Design of the fuse link / for short-circuit protection of the auxiliary switch / required</b>		fuse gL/gG: 6 A
Installation/mounting/dimensions:		
<b>built in orientation</b>		any
<b>Type of fixing/fixation</b>		direct mounting
<b>Width</b>	mm	45
<b>Height</b>	mm	75.9
<b>Depth</b>	mm	72.5
<b>distance, to be maintained, to the ranks assembly</b>		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	0
• downwards	mm	0
• sideways	mm	0
<b>distance, to be maintained, to earthed part</b>		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	0
• downwards	mm	0
• sideways	mm	6
<b>distance, to be maintained, conductive elements</b>		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	0
• downwards	mm	0
• sideways	mm	6
Connections:		
<b>design of the electrical connection</b>		
• for main current circuit		spring-loaded terminals
• for auxiliary and control current circuit		spring-loaded terminals
<b>Product function / removable terminal for auxiliary and control circuit</b>		Yes
<b>Type of the connectable conductor cross-section</b>		
• for main contacts		
• unifilar		1x (0.5 ... 4 mm <sup>2</sup> )
• stranded wire		1x (0.5 ... 4 mm <sup>2</sup> )
• stranded wire		
• with conductor end processing		1x (0.5 ... 2.5 mm <sup>2</sup> )

- without conductor final cutting
- at AWG-conductors / for main contacts
- for auxiliary contact
  - solid
  - stranded wire
    - with wire end processing
    - without conductor final cutting
- for AWG conductors / for auxiliary contacts

1x (0.5 ... 2.5 mm <sup>2</sup> )
1x (20 ... 12)
1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )
1x (0.25 ... 1.5 mm <sup>2</sup> ), 2x (0.25 ... 1.5 mm <sup>2</sup> )
1x (0.25 ... 1.5 mm <sup>2</sup> ), 2x (0.25 ... 1.5 mm <sup>2</sup> )
1x (24 ... 16), 2x (24 ... 16)

#### Certificates/approvals:

##### verification of suitability

- ATEX

UL / CSA
Yes

#### Safety:

##### Protection against electrical shock

finger-safe
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#### Further information:

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

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

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

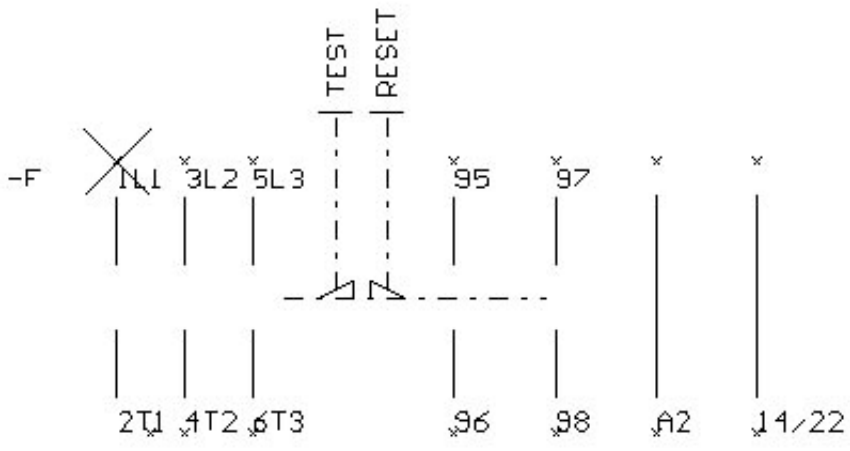
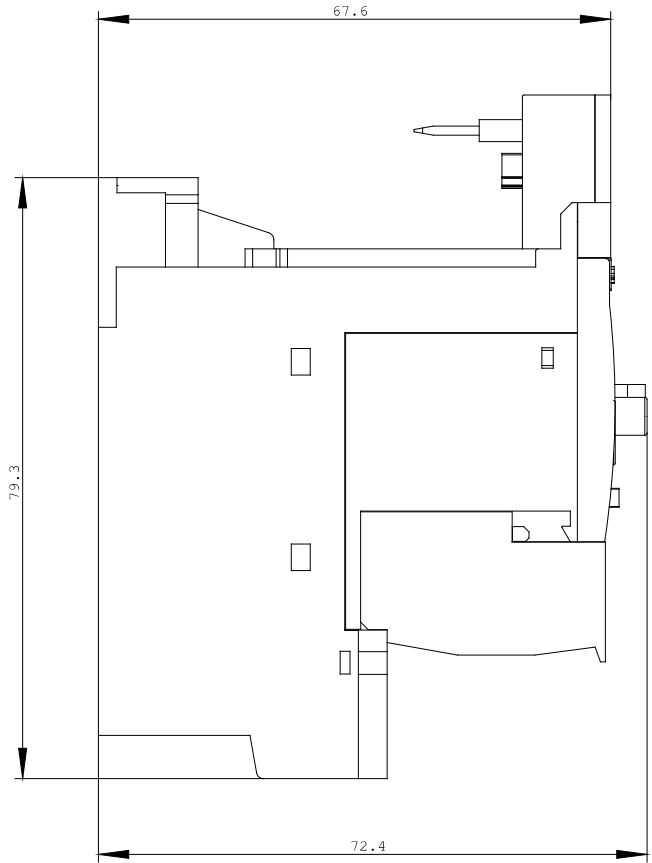
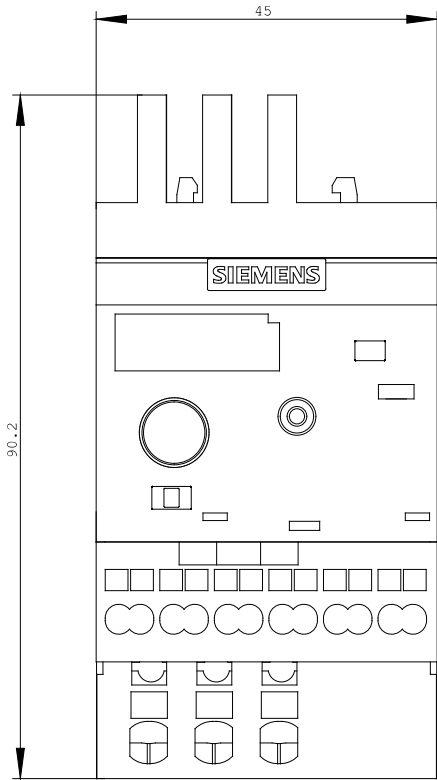
<http://www.siemens.com/industrial-controls/mall>

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

<http://support.automation.siemens.com/WW/view/en/3RB3016-1SE0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RB3016-1SE0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3016-1SE0)



last change:

Apr 26, 2010