

OVERLOAD RELAY 12.5...50 A FOR MOTOR  
 PROTECTION SIZE S2,  
 CLASS 20 FOR MOUNTING ONTO CONT. MAIN CIRCUIT:  
 SCREW CONNECTION AUX. CIRCUIT: SPRINGLOAD.  
 TERM. MANUAL-AUTOMATIC-RESET

General technical data:		
product brand name		SIRIUS
Product designation		solid-state overload relay
Size of overload relay		S2
Number of poles / for main current circuit		3
Product function / removable terminal for auxiliary and control circuit		Yes
Impulse voltage resistance / rated value	kV	6
Protection class IP		IP20
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Installation altitude / at a height over sea level / maximum	m	2,000
Resistance against shock		15g / 11 ms
Ambient temperature		
• during transport	°C	-40 ... +80
• during storage	°C	-40 ... +80
• during operating	°C	-25 ... +60
Relative humidity / during operating phase / maximum	%	100
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 / 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
Type of protection		PTB 06 ATEX 3001 Ex II (2) GD
Active power loss / total / typical	W	0.05
Size of the contactor / can be combined / company-specific		S2
Main circuit:		
Operating current / of the fuse link / rated value	A	80

Type of assignment		2
<b>Auxiliary circuit:</b>		
Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		1
Number of changeover contacts / for auxiliary contacts		0
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 6 A
Operating current / of the auxiliary contacts		
<ul style="list-style-type: none"> <li>• at AC-15 <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 <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>	<ul style="list-style-type: none"> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> <li>A</li> </ul>	<ul style="list-style-type: none"> <li>4</li> <li>4</li> <li>4</li> <li>4</li> <li>3</li> <li>2</li> <li>0.55</li> <li>0.3</li> <li>0.3</li> <li>0.11</li> </ul>
<b>Protective and monitoring functions:</b>		
Trip class		CLASS 20
Adjustable response current / of the current-dependent overload release	A	12.5 ... 50
<b>Installation/ mounting/ dimensions:</b>		
Mounting type		direct mounting
mounting position		any
Depth	mm	109
Height	mm	92
Width	mm	55
<b>Connections/ terminals:</b>		
Design of the electrical connection		
<ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>		<ul style="list-style-type: none"> <li>screw-type terminals</li> <li>spring-loaded terminals</li> </ul>
Type of the connectable conductor cross-section		
<ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded</li> </ul> </li> </ul>		2x (1 ... 16 mm <sup>2</sup> )

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

2x (1 ... 16 mm<sup>2</sup>), 1 ... 25 mm<sup>2</sup>  
 2x (max. 25 mm<sup>2</sup>), 1 ... 35 mm<sup>2</sup>  
 2 x (max. 4), 1 x (18 ... 2)  
 2x (0.25 ... 1.5 mm<sup>2</sup>)  
 2x (0.25 ... 1.5 mm<sup>2</sup>)  
 2x (24 ... 16)

### Certificates/ approvals:

#### General Product Approval

#### EMC

#### For use in hazardous locations



#### Test Certificates

#### Shipping Approval

[Type Test Certificates/Test Report](#)



#### other

[Declaration of Conformity](#)

[other](#)

[Environmental Confirmations](#)

### 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

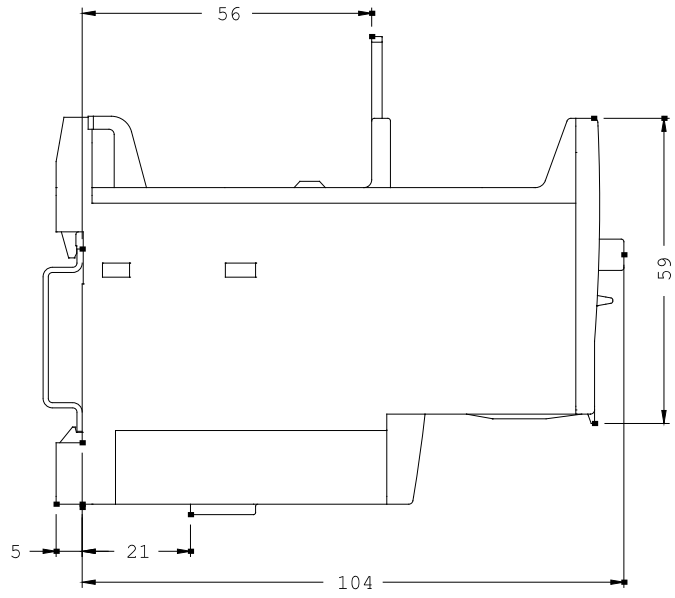
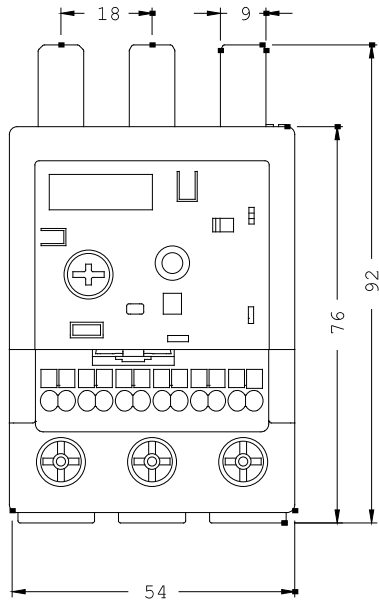
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RB2036-2UD0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RB2036-2UD0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB2036-2UD0)



last change:

Jun 16, 2014