



OVERLOAD RELAY 1...4A F. MOTOR PROTECTION SZ S0,  
 CLASS 5...30 F. MOUNT. ONTO CONTACTORS MAIN  
 CIRCUIT: SCREW CONN. AUX. CIRCUIT: SCREW CONN.  
 MANUAL-AUTOMATIC-RESET INT. GROUND FAULT  
 DETECTION

**General technical data:**

<b>product brand name</b>		SIRIUS
<b>Product designation</b>		solid-state overload relay
<b>Size of overload relay</b>		S0
<b>Number of poles / for main current circuit</b>		3
<b>Product function / removable terminal for auxiliary and control circuit</b>		Yes
<b>Impulse voltage resistance / rated value</b>	kV	6
<b>Protection class IP</b>		IP20
<b>Protection class IP / on the front</b>		IP20
<b>Protection against electrical shock</b>		finger-safe
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Resistance against shock</b>		15g / 11 ms
<b>Ambient temperature</b>		
• during transport	°C	-40 ... +80
• during storage	°C	-40 ... +80
• during operating	°C	-25 ... +60
<b>Relative humidity / during operating phase / maximum</b>	%	100
<b>Electrostatic discharge / according to IEC 61000-4-2</b>		6 kV contact discharge / 8 kV air discharge
<b>Field-bound parasitic coupling / according to IEC 61000-4-3</b>		10 V/m

<b>Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4</b>		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
<b>Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5</b>		2 kV (line to earth) corresponds to degree of severity 3
<b>Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5</b>		1 kV (line to line) corresponds to degree of severity 3
<b>Type of protection</b>		PTB 06 ATEX 3001 Ex II (2) GD
<b>Active power loss / total / typical</b>	W	0.05
<b>Size of the contactor / can be combined / company-specific</b>		S0

#### Main circuit:

<b>Operating current / of the fuse link / rated value</b>	A	10
<b>Type of assignment</b>		2

#### Auxiliary circuit:

<b>Number of NC contacts / for auxiliary contacts</b>		1
<b>Number of NO contacts / for auxiliary contacts</b>		1
<b>Number of changeover contacts / for auxiliary contacts</b>		0
<b>Design of the fuse link / for short-circuit protection of the auxiliary switch / required</b>		fuse gL/gG: 6 A
<b>Operating current / of the auxiliary contacts</b>		
<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>	A	4
	A	4
	A	4
	A	4
	A	3
	A	2
	A	0.55
	A	0.3
	A	0.3
	A	0.11

#### Protective and monitoring functions:

<b>Trip class</b>		CLASS 5, 10, 20 and 30 adjustable
<b>Adjustable response current / of the current-dependent overload release</b>	A	1 ... 4

#### Installation/ mounting/ dimensions:

<b>Mounting type</b>		direct mounting
<b>mounting position</b>		any
<b>Depth</b>	mm	75

<b>Height</b>	mm	73
<b>Width</b>	mm	45

### Connections/ terminals:

#### Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals  
screw-type terminals

#### Type of the connectable conductor cross-section

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

2x (1 ... 2.5 mm<sup>2</sup>), 2x (2.5 ... 6 mm<sup>2</sup>)  
2x (1 ... 2.5 mm<sup>2</sup>), 2x (2.5 ... 6 mm<sup>2</sup>)  
2x (14 ... 10)  
0.5 ... 4 mm<sup>2</sup>, 2x (0.5 ... 2.5 mm<sup>2</sup>)  
0.5 ... 2.5 mm<sup>2</sup>, 2x (0.5 ... 1.5 mm<sup>2</sup>)  
2x (20 ... 14)

### Certificates/ approvals:

#### General Product Approval

#### EMC

#### For use in hazardous locations



CCC



CSA



UL



C-TICK



ATEX

#### Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

#### Shipping Approval



ABS



DNV



GL



LRS



RINA

#### 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>

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

<http://support.automation.siemens.com/WW/view/en/3RB2123-4PB0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RB2123-4PB0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB2123-4PB0)

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**last change:**

Jun 16, 2014