



OVERLOAD RELAY 0.32...1.25 A FOR MOTOR PROTECTION SIZE S00. CLASS 5...30 CONTACTOR ASS. MAIN CIRCUIT: SCREW CONN. AUX.CIRCUIT: SCREW CONN. MANUAL-AUTOM.-RESET INT. GROUND FAULT DETECTION

product brand name		SIRIUS
Product designation		solid-state overload relay

General technical data:		
Active power loss total typical	W	0.1
Insulation voltage	V	690
<ul style="list-style-type: none"> <li>with degree of pollution 3 Rated value</li> </ul>		
Shock resistance		15g / 11 ms
<ul style="list-style-type: none"> <li>acc. to IEC 60068-2-27</li> </ul>		
Vibration resistance		1-6 Hz, 15 mm; 6-500 Hz, 20 m/s <sup>2</sup> ; 10 cycles
Surge voltage resistance Rated value	kV	6
Size of contactor can be combined company-specific		S00
Type of assignment		2
Protection class IP		IP20
<ul style="list-style-type: none"> <li>on the front</li> <li>of the terminal</li> </ul>		IP20
Type of protection		II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex tj] [Ex p]
Equipment marking		F
<ul style="list-style-type: none"> <li>acc. to DIN EN 61346-2</li> <li>acc. to DIN EN 81346-2</li> </ul>		F

Main circuit:		
Number of poles for main current circuit		3
Adjustable response value current of the current-dependent overload release	A	0.32 ... 1.25
Operating voltage	V	24
<ul style="list-style-type: none"> <li>for remote-reset function for DC</li> </ul>		

<ul style="list-style-type: none"> <li>• at AC-3 Rated value maximum</li> </ul>	V	690
Operating frequency Rated value	Hz	50 ... 60
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at AC-3</li> <li>— at 400 V Rated value</li> </ul>	A	1.25

#### Auxiliary circuit:

<b>Number of NC contacts</b>		
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>— Note</li> </ul>		1 for contactor disconnection
<b>Number of NO contacts</b>		
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>— Note</li> </ul>		1 for message "tripped"
<b>Number of CO contacts</b>		
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>		0
<b>Design of the auxiliary switch</b>		integrated
<b>Operating current of the auxiliary contacts at AC-15</b>		
<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>	A	4 4 4 4 3
<b>Operating current of the auxiliary contacts at DC-13</b>		
<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>	A	2 0.55 0.3 0.3 0.11

#### Protective and monitoring functions:

<b>Trip class</b>		CLASS 5, 10, 20 and 30 adjustable
<b>Design of the overload circuit breaker</b>		electronic

#### UL/CSA ratings:

<b>Contact rating of the auxiliary contacts acc. to UL</b>		B300 / R300
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#### Short-circuit:

<b>Design of the fuse link</b>		
<ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit</li> <li>— required</li> <li>• for short-circuit protection of the auxiliary switch</li> <li>required</li> </ul>		Fuse gG: 6 A fuse gG: 6 A

#### Installation/ mounting/ dimensions:

<b>mounting position</b>		any
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<b>Mounting type</b>		direct mounting
<b>Height</b>	mm	79
<b>Width</b>	mm	45
<b>Depth</b>	mm	73
<b>Required spacing</b>		
<ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul>	mm	0
	mm	0
	mm	0
	mm	0
	mm	0
	mm	0
	mm	6
	mm	0
	mm	0
	mm	0
	mm	0
	mm	6

#### Connections/ Terminals:

<b>Type of electrical connection</b>		
<ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>		screw-type terminals screw-type terminals
<b>Arrangement of electrical connectors for main current circuit</b>		Top and bottom
<b>Product function</b>		Yes
<ul style="list-style-type: none"> <li>• removable terminal for auxiliary and control circuit</li> </ul>		
<b>Type of connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• for AWG conductors for main contacts</li> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— single or multi-stranded</li> </ul> </li> </ul>		1x (0,5 ... 4 mm <sup>2</sup> ), 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 4 mm <sup>2</sup> ) 1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> ) 1x (20 ... 12), 2x (20 ... 12) 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> )

— finely stranded with core end processing

- for AWG conductors for auxiliary contacts

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)

#### Safety related data:

**Protection against electrical shock** finger-safe

#### Mechanical data:

**Size of overload relay** S00

#### Communication/ Protocol:

**Protocol is supported**

- IO-Link protocol

No

**Type of voltage supply via input/output link master**

No

#### Ambient conditions:

**Installation altitude at height above sea level maximum** m 2 000

**Ambient temperature**

- during operation
- during storage
- during transport

°C -25 ... +60  
°C -40 ... +80  
°C -40 ... +80

**Relative humidity during operation** % 95

#### Electromagnetic compatibility:

**EMC emitted interference**

- acc. to IEC 60947-1

CISPR 11, environment B (residential area)

**EMI immunity acc. to IEC 60947-1**

corresponds to degree of severity 3

**Conducted interference due to burst acc. to IEC 61000-4-4**

2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3

**Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5**

2 kV (line to earth) corresponds to degree of severity 3

**Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5**

1 kV (line to line) corresponds to degree of severity 3

**Field-bound parasitic coupling acc. to IEC 61000-4-3**

10 V/m

**Electrostatic discharge acc. to IEC 61000-4-2**

6 kV contact discharge / 8 kV air discharge

#### Display:

**Display version**

- for switching status

Slide switch

#### Certificates/ approvals:

General Product Approval	EMC	For use in hazardous locations
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Declaration of Conformity	Test Certificates	Shipping Approval
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[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Shipping Approval	other
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[Environmental Confirmations](#)

[Confirmation](#)

#### Further information

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

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

**Industry Mall (Online ordering system)**

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

**Cax online generator**

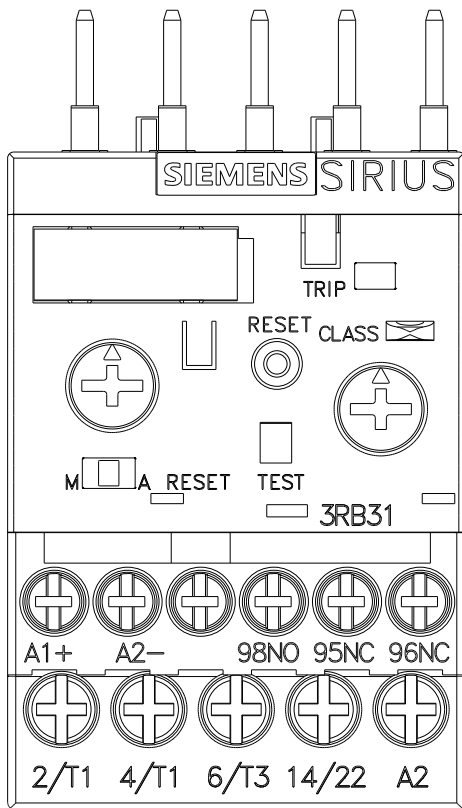
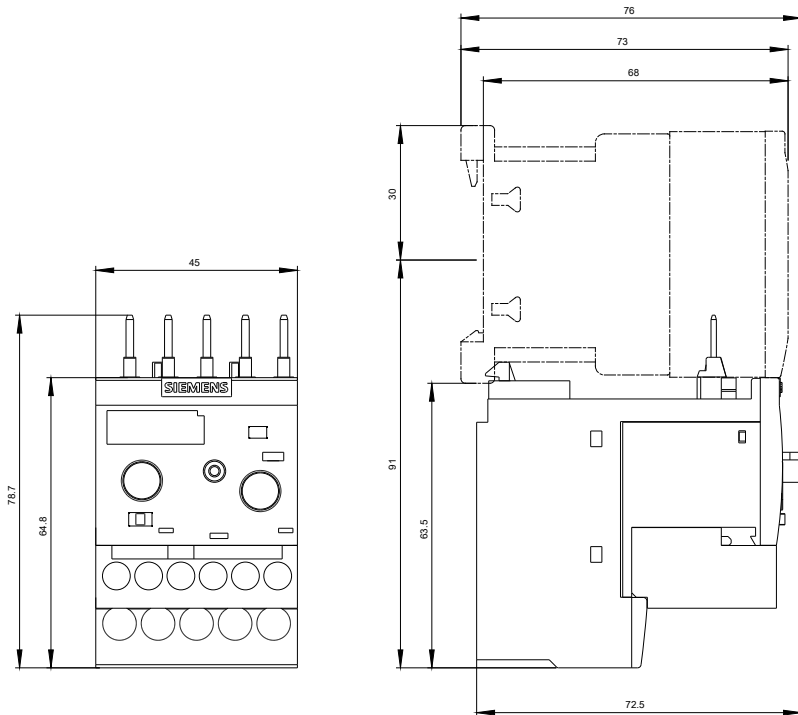
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB31134NB0>

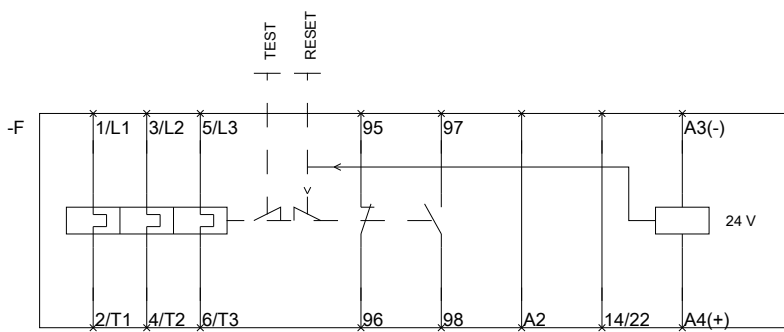
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RB31134NB0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RB31134NB0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB31134NB0&lang=en)





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