

OVERLOAD RELAY 0.32...1.25 A FOR MOTOR PROTECTION  
 SIZE S0, CLASS 10 CONTACTOR ASS. MAIN CIRCUIT: SPR.-  
 LOAD.TERM. AUX.CIRCUIT: SPR.-LOAD.TERM. MANUAL-  
 AUTOM.-RESET



product brand name	SIRIUS
Product designation	solid-state overload relay

**General technical data:**

Size of contactor can be combined company-specific	S0
Active power loss total typical	0.1 W
Insulation voltage	690 V
<ul style="list-style-type: none"> <li>with degree of pollution 3 Rated value</li> </ul>	690 V
Surge voltage resistance Rated value	6 kV
Protection class IP	IP20
<ul style="list-style-type: none"> <li>on the front</li> <li>of the terminal</li> </ul>	IP20
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s <sup>2</sup> ; 10 cycles
Type of assignment	2
Type of protection	II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [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

**Ambient conditions:**

<b>Installation altitude at height above sea level maximum</b>	2 000 m
<b>Ambient temperature</b>	
• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
<b>Relative humidity during operation</b>	95 %

#### Main circuit:

<b>Number of poles for main current circuit</b>	3
<b>Adjustable response value current of the current-dependent overload release</b>	0.32 ... 1.25 A
<b>Operating voltage</b>	
• at AC-3 Rated value maximum	690 V
<b>Operating frequency Rated value</b>	50 ... 60 Hz
<b>Operating current</b>	
• at AC-3	
— at 400 V Rated value	1.25 A

#### Auxiliary circuit:

<b>Number of NC contacts</b>	
• for auxiliary contacts	1
— Note	for contactor disconnection
<b>Number of NO contacts</b>	
• for auxiliary contacts	1
— Note	for message "tripped"
<b>Number of CO contacts</b>	
• for auxiliary contacts	0
<b>Design of the auxiliary switch</b>	integrated
<b>Operating current of the auxiliary contacts at AC-15</b>	
• at 24 V	4 A
• at 110 V	4 A
• at 120 V	4 A
• at 125 V	4 A
• at 230 V	3 A
<b>Operating current of the auxiliary contacts at DC-13</b>	
• at 24 V	2 A
• at 60 V	0.55 A
• at 110 V	0.3 A
• at 125 V	0.3 A
• at 220 V	0.11 A

#### Protective and monitoring functions:

<b>Trip class</b>	CLASS 10
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<b>Design of the overload circuit breaker</b>	electronic
<b>UL/CSA ratings:</b>	
<b>Contact rating of the auxiliary contacts acc. to UL</b>	B600 / R300
<b>Short-circuit:</b>	
<b>Design of the fuse link</b>	
<ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>	Fuse gG: 6 A fuse gG: 6 A
<b>Installation/ mounting/ dimensions:</b>	
<b>mounting position</b>	any
<b>Mounting type</b>	direct mounting
<b>Height</b>	109 mm
<b>Width</b>	45 mm
<b>Depth</b>	85 mm
<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>	0 mm 0 mm 0 mm 0 mm 0 mm 6 mm 0 mm 6 mm 6 mm 6 mm 6 mm 6 mm 0 mm 6 mm 6 mm 6 mm
<b>Connections/ Terminals:</b>	
<b>Product function</b>	
<ul style="list-style-type: none"> <li>• removable terminal for auxiliary and control circuit</li> </ul>	Yes
<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>	spring-loaded terminals spring-loaded terminals

<b>Arrangement of electrical connectors for main current circuit</b>	Top and bottom
<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> <li>— finely stranded without core end processing</li> </ul> </li> <li>• for AWG conductors for main contacts</li> </ul>	<p>1x (1 ... 10 mm<sup>2</sup>)</p> <p>1x (1 ... 6 mm<sup>2</sup>)</p> <p>1x (1 ... 6 mm<sup>2</sup>)</p> <p>1x (18 ... 8)</p>
<b>Type of connectable conductor cross-section</b>	
<ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul> </li> <li>• for AWG conductors for auxiliary contacts</li> </ul>	<p>1x (0,5 ... 1,5 mm<sup>2</sup>), 2x (0,5 ... 1,5 mm<sup>2</sup>)</p> <p>1x (0.25 ... 1.5 mm<sup>2</sup>), 2x (0.25 ... 1.5 mm<sup>2</sup>)</p> <p>1x (0.25 ... 1.5 mm<sup>2</sup>), 2x (0.25 ... 1.5 mm<sup>2</sup>)</p> <p>1x (24 ... 16), 2x (24 ... 16)</p>

#### Mechanical data:

<b>Size of overload relay</b>	S0
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#### Communication/ Protocol:

<b>Protocol is supported</b>	
<ul style="list-style-type: none"> <li>• IO-Link protocol</li> </ul>	No
<b>Type of voltage supply via input/output link master</b>	No

#### Electromagnetic compatibility:

<b>EMC emitted interference</b>	
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-1</li> </ul>	CISPR 11, environment B (residential area)
<b>EMI immunity acc. to IEC 60947-1</b>	corresponds to degree of severity 3
<b>Conducted interference due to burst acc. to IEC 61000-4-4</b>	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
<b>Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5</b>	2 kV (line to earth) corresponds to degree of severity 3
<b>Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5</b>	1 kV (line to line) corresponds to degree of severity 3
<b>Field-bound parasitic coupling acc. to IEC 61000-4-3</b>	10 V/m
<b>Electrostatic discharge acc. to IEC 61000-4-2</b>	6 kV contact discharge / 8 kV air discharge

#### Display:

<b>Display version</b>	
<ul style="list-style-type: none"> <li>• for switching status</li> </ul>	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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[Typprüfbescheinigung/Werkszeugnis](#)

[spezielle Prüfbescheinigungen](#)



Shipping Approval	other
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[Umweltbestätigung](#)

[Bestätigungen](#)

#### 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**

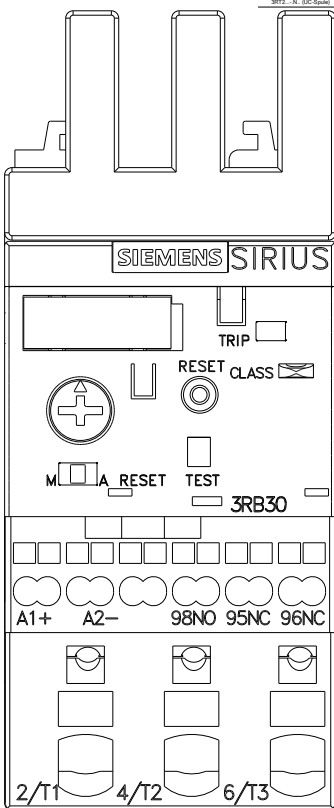
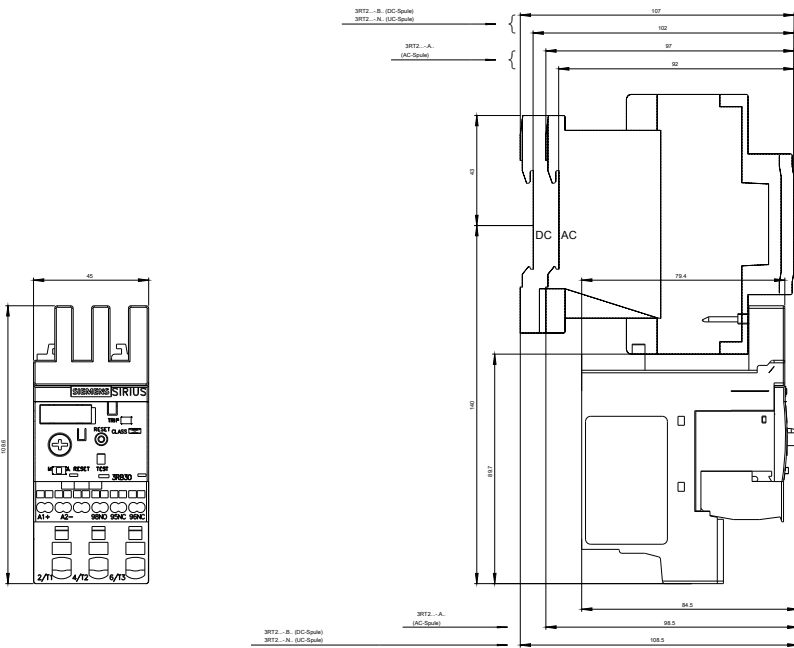
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB30261NE0>

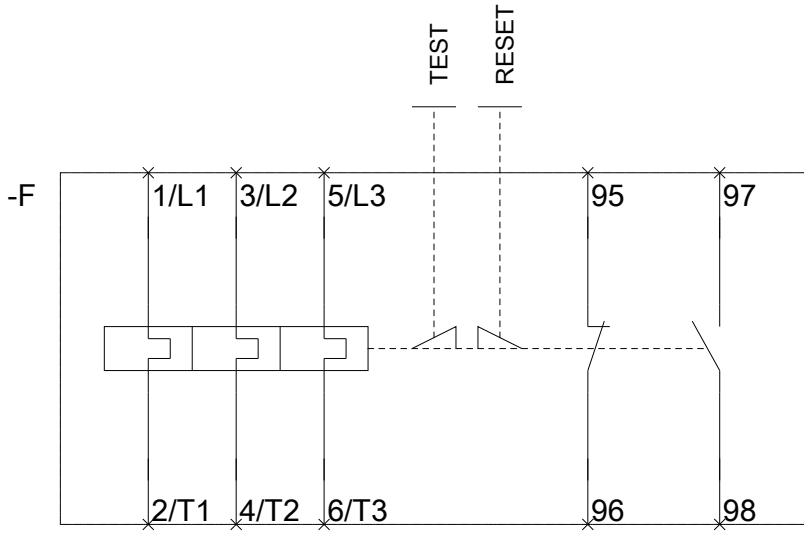
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RB30261NE0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RB30261NE0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB30261NE0&lang=en)





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