



Overload relay 10...40 A Electronic For motor protection Size S0, Class 20  
 Contactor mounting Main circuit: Spring-type terminal Auxiliary circuit: Spring-type  
 terminal Manual-Automatic-Reset

<b>product brand name</b>	SIRIUS
<b>product designation</b>	solid-state overload relay
<b>product type designation</b>	3RB3
<b>General technical data</b>	
<b>size of overload relay</b>	S0
<b>size of contactor can be combined company-specific</b>	S0
power loss [W] for rated value of the current at AC in hot operating state	4.5 W
• per pole	1.5 W
<b>type of calculation of power loss current-dependent</b>	quadratic
insulation voltage with degree of pollution 3 at AC rated value	690 V
<b>surge voltage resistance rated value</b>	6 kV
<b>maximum permissible voltage for protective separation</b>	
• in networks with ungrounded star point between auxiliary and auxiliary circuit	300 V
• in networks with grounded star point between auxiliary and auxiliary circuit	300 V
• in networks with ungrounded star point between main and auxiliary circuit	600 V
• in networks with grounded star point between main and auxiliary circuit	690 V
<b>shock resistance</b>	15 g / 11 ms
• according to IEC 60068-2-27	15 g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 9g / 11 ms
<b>vibration resistance</b>	1 ... 6 Hz, 15 mm; 6 ... 500 Hz, 20 m/s <sup>2</sup> ; 10 cycles
<b>thermal current</b>	32 A
<b>recovery time after overload trip</b>	
• with automatic reset typical	3 min
• with remote-reset	0 min
• with manual reset	0 min
<b>reference code according to IEC 81346-2</b>	F
<b>Substance Prohibitance (Date)</b>	10/01/2009
<b>SVHC substance name</b>	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1
<b>Net Weight</b>	0.322 kg
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
<b>ambient temperature</b>	
• during operation	-25 ... +60 °C

<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +80 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +80 °C
<b>temperature compensation</b>	-25 ... +60 °C
relative humidity during operation	10 ... 95 %

#### Main circuit

<b>number of poles for main current circuit</b>	3
<b>adjustable current response value current of the current-dependent overload release</b>	10 ... 40 A
<b>operating voltage</b>	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	690 V
<ul style="list-style-type: none"> <li>at AC-3e rated value maximum</li> </ul>	690 V
<b>operating frequency rated value</b>	50 ... 60 Hz
<b>operational current rated value</b>	40 A
operational current at AC-3e at 400 V rated value	32 A
<b>operating power</b>	
<ul style="list-style-type: none"> <li>for 3-phase motors at 400 V at 50 Hz</li> </ul>	5.5 ... 18.5 kW
<ul style="list-style-type: none"> <li>for AC motors at 500 V at 50 Hz</li> </ul>	7.5 ... 22 kW
<ul style="list-style-type: none"> <li>for AC motors at 690 V at 50 Hz</li> </ul>	11 ... 37 kW

#### Auxiliary circuit

<b>design of the auxiliary switch</b>	integrated
<b>number of NC contacts for auxiliary contacts</b>	1
<ul style="list-style-type: none"> <li>note</li> </ul>	for contactor disconnection
<b>number of NO contacts for auxiliary contacts</b>	1
<ul style="list-style-type: none"> <li>note</li> </ul>	for message "tripped"
number of CO contacts for auxiliary contacts	0
<b>operational current of auxiliary contacts at AC-15</b>	
<ul style="list-style-type: none"> <li>at 24 V</li> </ul>	4 A
<ul style="list-style-type: none"> <li>at 110 V</li> </ul>	4 A
<ul style="list-style-type: none"> <li>at 120 V</li> </ul>	4 A
<ul style="list-style-type: none"> <li>at 125 V</li> </ul>	4 A
<ul style="list-style-type: none"> <li>at 230 V</li> </ul>	3 A
<b>operational current of auxiliary contacts at DC-13</b>	
<ul style="list-style-type: none"> <li>at 24 V</li> </ul>	2 A
<ul style="list-style-type: none"> <li>at 60 V</li> </ul>	0.55 A
<ul style="list-style-type: none"> <li>at 110 V</li> </ul>	0.3 A
<ul style="list-style-type: none"> <li>at 125 V</li> </ul>	0.3 A
<ul style="list-style-type: none"> <li>at 220 V</li> </ul>	0.11 A

#### Protective and monitoring functions

<b>trip class</b>	CLASS 20E
<b>design of the overload release</b>	electronic

#### UL/CSA ratings

<b>full-load current (FLA) for 3-phase AC motor</b>	
<ul style="list-style-type: none"> <li>at 480 V rated value</li> </ul>	32 A
<ul style="list-style-type: none"> <li>at 600 V rated value</li> </ul>	32 A
<b>contact rating of auxiliary contacts according to UL</b>	B600 / R300

#### Short-circuit protection

<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>with type of coordination 1 required</li> </ul> </li> </ul>	gG: 125 A, J: 150 A
<ul style="list-style-type: none"> <li>with type of coordination 2 required</li> </ul>	gG: 80 A, J: 100 A
<ul style="list-style-type: none"> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 6 A

#### Installation/ mounting/ dimensions

<b>mounting position</b>	any
<b>fastening method</b>	Contacting 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>for grounded parts</li> </ul>	

— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— at the side	6 mm
— downwards	6 mm
• for live parts	
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm

#### Connections/ Terminals

<b>product component removable terminal for auxiliary and control circuit</b>	Yes
<b>type of electrical connection</b>	
• for main current circuit	spring-loaded terminals
• for auxiliary and control circuit	spring-loaded terminals
<b>arrangement of electrical connectors for main current circuit</b>	Top and bottom
<b>type of connectable conductor cross-sections for main contacts</b>	
• solid	1x (1 ... 10 mm <sup>2</sup> )
• stranded	1x 10 mm <sup>2</sup>
• solid or stranded	1x (1 ... 10 mm <sup>2</sup> )
• finely stranded with core end processing	1x (1 ... 6 mm <sup>2</sup> )
• finely stranded without core end processing	1x (1 ... 6 mm <sup>2</sup> )
<b>type of connectable conductor cross-sections</b>	
• for auxiliary contacts	
— solid	2x (0.25 ... 1.5 mm <sup>2</sup> )
— solid or stranded	2x (0,25 ... 1,5 mm <sup>2</sup> )
— finely stranded with core end processing	2x (0.25 ... 1.5 mm <sup>2</sup> )
— finely stranded without core end processing	2x (0.25 ... 1.5 mm <sup>2</sup> )
• for AWG cables for auxiliary contacts	1x (24 ... 16), 2x (24 ... 16)
<b>design of screwdriver shaft</b>	Diameter 5 to 6 mm
<b>size of the screwdriver tip</b>	Pozidriv PZ 2

#### Electrical Safety

<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>touch protection on the front according to IEC 60529</b>	finger-safe, for vertical contact from the front

#### Communication/ Protocol

<b>type of voltage supply via input/output link master</b>	No
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#### Electromagnetic compatibility

<b>conducted interference</b>	
• due to burst according to IEC 61000-4-4	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
• due to conductor-earth surge according to IEC 61000-4-5	2 kV (line to earth) corresponds to degree of severity 3
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV (line to line) corresponds to degree of severity 3
• due to high-frequency radiation according to IEC 61000-4-6	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>electrostatic discharge according to IEC 61000-4-2</b>	6 kV contact discharge / 8 kV air discharge

#### Display

display version for switching status	Slide switch
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#### Approvals Certificates

<b>Environment</b>	General Product Approval
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[Environmental Confirmations](#)



EMV	For use in hazard-	Test Certificates	Maritime application
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ous locations



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Maritime application



other

[Confirmation](#)

[Confirmation](#)

other



Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3026-2VE0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-2VE0>

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

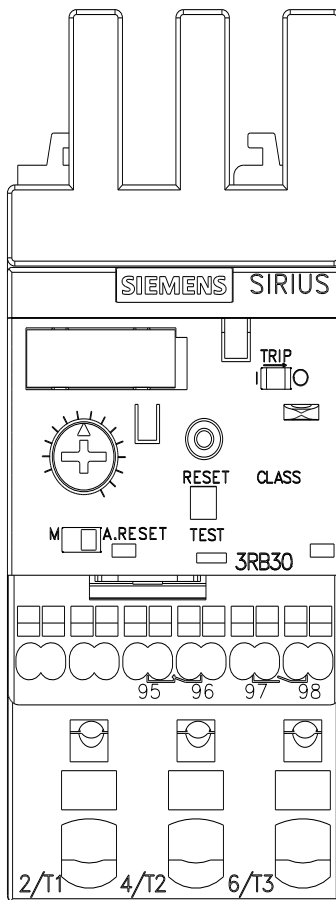
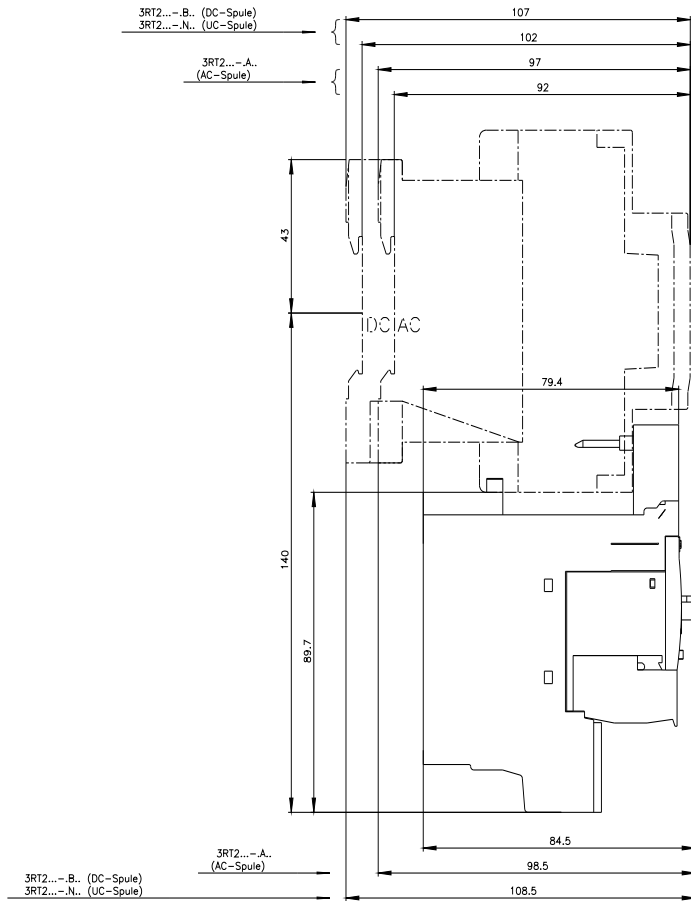
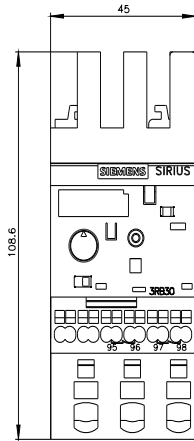
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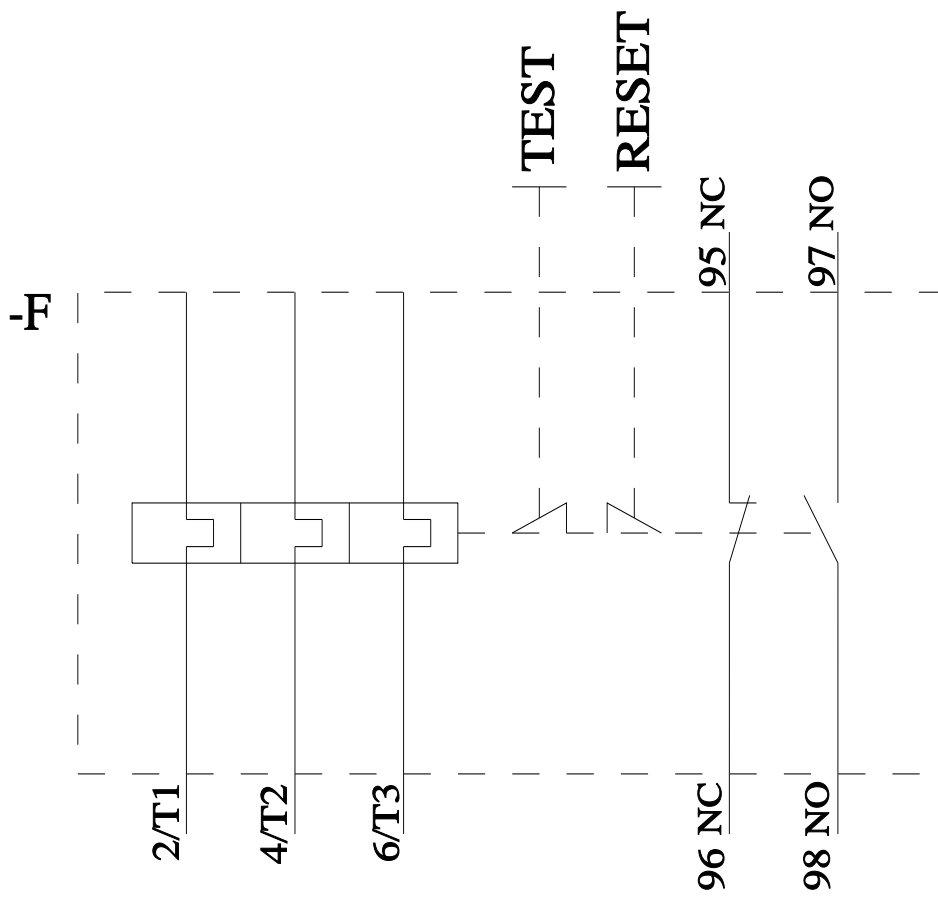
Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3026-2VE0>

Characteristic curves

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