

Overload relay 27...32 A Thermal For motor protection Size S0, Class 10 Contactor mounting Main circuit: Ring cable lug Auxiliary circuit: ring cable lug Manual-Automatic-Reset

<b>product brand name</b>	SIRIUS
<b>product designation</b>	thermal overload relay
<b>product type designation</b>	3RU2
<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	9.6 W
• per pole	3.2 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	440 V
• in networks with grounded star point between auxiliary and auxiliary circuit	440 V
• in networks with ungrounded star point between main and auxiliary circuit	440 V
• in networks with grounded star point between main and auxiliary circuit	440 V
<b>shock resistance according to IEC 60068-2-27</b>	8g / 11 ms
<b>reference code according to IEC 81346-2</b>	F
<b>Substance Prohibitance (day/month/year)</b>	10/01/2009
<b>SVHC substance name</b>	Lead CAS-No. 7439-92-1
<b>Net Weight</b>	0.207 kg
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
<b>ambient temperature</b>	
• during operation	-40 ... +70 °C
• during storage	-55 ... +80 °C
• during transport	-55 ... +80 °C
<b>temperature compensation</b>	-40 ... +60 °C
relative humidity during operation	10 ... 95 %
<b>Main circuit</b>	
<b>number of poles for main current circuit</b>	3
<b>adjustable current response value current of the current-dependent overload release</b>	27 ... 32 A
<b>operating voltage</b>	
• rated value	690 V
• at AC-3e rated value maximum	690 V
<b>operating frequency rated value</b>	50 ... 60 Hz
<b>operational current rated value</b>	32 A
operational current at AC-3e at 400 V rated value	32 A
<b>operating power</b>	
• at AC-3	
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 kW
• at AC-3e	

— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 kW

#### Auxiliary circuit

<b>design of the auxiliary switch</b>	integrated
<b>number of NC contacts for auxiliary contacts</b>	1
• note	for contactor disconnection
<b>number of NO contacts for auxiliary contacts</b>	1
• note	for message "Tripped"
number of CO contacts for auxiliary contacts	0
<b>operational current of auxiliary contacts at AC-15</b>	
• at 24 V	3 A
• at 110 V	3 A
• at 120 V	3 A
• at 125 V	3 A
• at 230 V	2 A
• at 400 V	1 A
• at 690 V	0.75 A
<b>operational current of auxiliary contacts at DC-13</b>	
• at 24 V	2 A
• at 60 V	0.3 A
• at 110 V	0.22 A
• at 125 V	0.22 A
• at 220 V	0.11 A
<b>contact rating of auxiliary contacts according to UL</b>	B600 / R300

#### Protective and monitoring functions

<b>trip class</b>	CLASS 10
<b>design of the overload release</b>	thermal

#### UL/CSA ratings

<b>full-load current (FLA) for 3-phase AC motor</b>	
• at 480 V rated value	32 A
• at 600 V rated value	32 A

#### Short-circuit protection

<b>design of the fuse link</b>	
• for short-circuit protection of the auxiliary switch required	fuse gG: 6 A, quick: 10 A

#### Installation/ mounting/ dimensions

<b>mounting position</b>	for mounting on contactors: with a vertical mounting plane +/-135° rotatable & +/- 22.5° tiltable, stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/-45° tiltable; for more details see manual
<b>fastening method</b>	Contactors mounting
<b>height</b>	85 mm
<b>width</b>	45 mm
<b>depth</b>	85 mm

#### Connections/ Terminals

<b>product component removable terminal for auxiliary and control circuit</b>	No
<b>type of electrical connection</b>	
• for main current circuit	Ring cable lug connection
• for auxiliary and control circuit	ring terminal lug connection
<b>arrangement of electrical connectors for main current circuit</b>	Top and bottom
<b>tightening torque</b>	
• for main contacts for ring cable lug	2.5 ... 2 N·m
• for auxiliary contacts for ring cable lug	0.8 ... 1.2 N·m
<b>outer diameter of the usable ring cable lug maximum</b>	7.5 mm
<b>design of screwdriver shaft</b>	Diameter 5 ... 6 mm
<b>size of the screwdriver tip</b>	Pozidriv PZ 2
<b>design of the thread of the connection screw</b>	
• for main contacts	M4
• of the auxiliary and control contacts	M3

Safety related data	
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
MTTF with high demand rate	2 280 a
IEC 61508	
T1 value	20 a
<ul style="list-style-type: none"> <li>for proof test interval or service life according to IEC 61508</li> </ul>	
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00
Display	
display version for switching status	Slide switch
Approvals Certificates	
Environment	General Product Approval

[Environmental Confirmations](#)

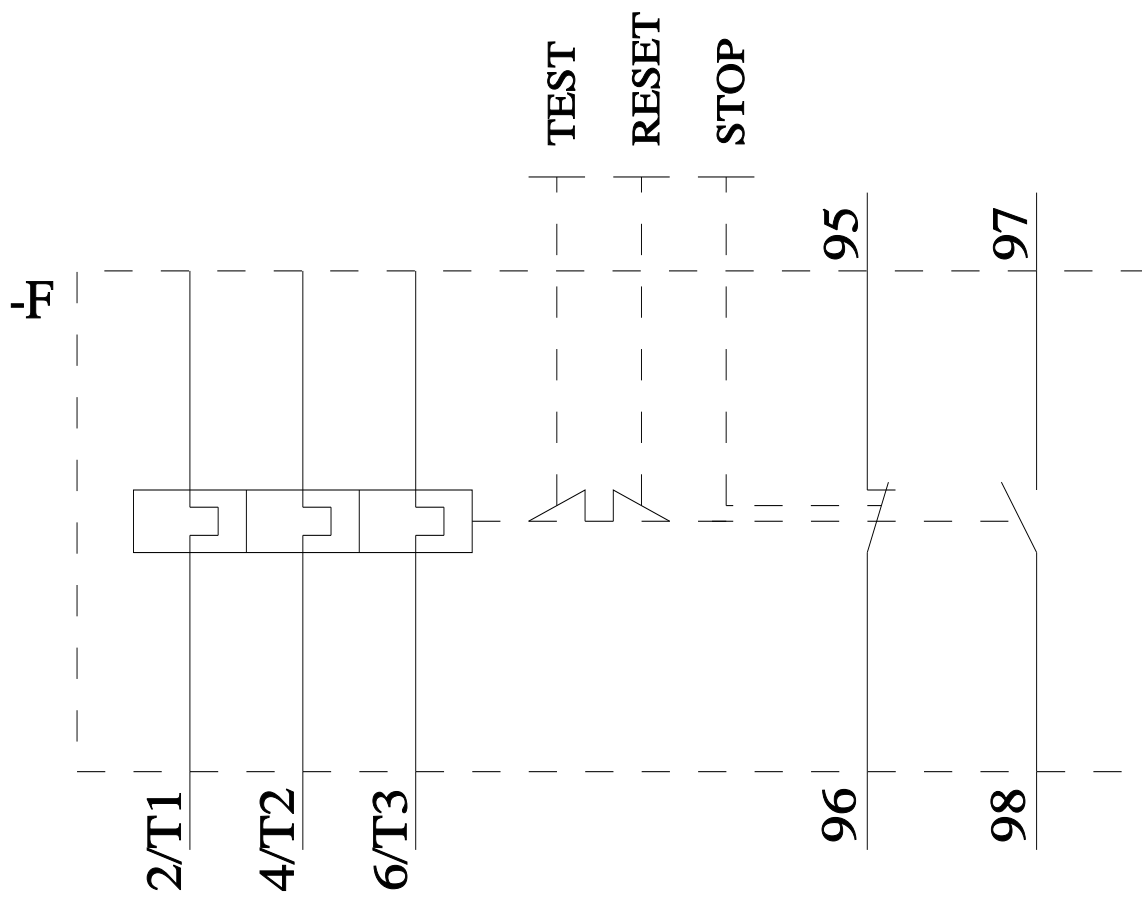


General Product Approval	For use in hazardous locations	Test Certificates	Maritime application
		<a href="#">Type Test Certificates/Test Report</a>	<a href="#">Special Test Certificate</a>

Maritime application					

other	Railway
<a href="#">Confirmation</a>	<a href="#">Special Test Certificate</a>
<a href="#">Confirmation</a>	

Further information
Information on the packaging <a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>
Information for data generation and storage <a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a>
Information- and Downloadcenter (Catalogs, Brochures,...) <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>
Industry Mall (Online ordering system) <a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2126-4EJ0">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2126-4EJ0</a>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4EJ0">https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4EJ0</a>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4EJ0&amp;lang=en">https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4EJ0&amp;lang=en</a>
Cax online generator <a href="https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RU2126-4EJ0">https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RU2126-4EJ0</a>
Characteristic curves <a haupt"&gt;&lt;="" href="https://curves.simaris.siemens.com/curves/&lt;mmp_prod_noCOMP=" mmp_prod_no&gt;"="">https://curves.simaris.siemens.com/curves/&lt;mmp_prod_noCOMP="HAUPT"&gt;&lt;/mmp_prod_no&gt;</a>



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