



OVERLOAD RELAY 30...36 A FOR MOTOR PROTECTION  
 SZ S0,  
 CLASS 10,  
 F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT:  
 SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL  
 MANUAL-AUTOMATIC-RESET

**General technical data:**

<b>product brand name</b>		SIRIUS
<b>product designation</b>		3RU2 thermal 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>		No
<b>Impulse voltage resistance / rated value</b>	kV	6
<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>		8g / 11 ms
<b>Ambient temperature</b>		
• during transport	°C	-55 ... +80
• during storage	°C	-55 ... +80
• during operating	°C	-40 ... +70
<b>Relative humidity</b>		
• during operating phase	/ %	90
<b>Active power loss / total / typical</b>	W	7.5
<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	80
<b>Service power / at AC-3</b>		
• at 400 V / rated value	kW	18.5
• at 500 V / rated value	kW	22
• at 690 V / rated value	kW	30
<b>Operational current / at AC-3 / at 400 V / rated value</b>	A	36
<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 gG: 10 A
<b>Operating current / of the auxiliary contacts / at AC-15</b>		
• at 24 V	A	3
• at 110 V	A	3
• at 120 V	A	3
• at 125 V	A	3
• at 230 V	A	2
• at 400 V	A	1
<b>Operating current / of the auxiliary contacts / at DC-13</b>		
• at 24 V	A	1
• at 110 V	A	0.22
• at 125 V	A	0.22
• at 220 V	A	0.11

**Protection function:**

<b>Trip class</b>		CLASS 10
<b>Adjustable response current</b>		
• of the current-dependent overload release	A	30 ... 36

**Safety:**

<b>Proportion of dangerous failures</b>		
• with high demand rate / according to SN 31920	%	50
• with low demand rate / according to SN 31920	%	50
<b>Mean time to failure (MTTF) / with high demand rate</b>	a	2,280
<b>Failure rate (FIT value) / with low demand rate / according to SN 31920</b>	FIT	50
<b>T1 value / for proof test interval or service life / according to IEC 61508</b>	a	20

**Installation/mounting/dimensions:**

<b>Type of mounting</b>		direct mounting
<b>mounting position</b>		vertical
<b>Depth</b>	mm	85
<b>Height</b>	mm	85
<b>Width</b>	mm	45

**Connections:**

<b>Design of the 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>Type of the connectable conductor cross-section</b> <ul style="list-style-type: none"><li>• for main contacts<ul style="list-style-type: none"><li>• solid</li><li>• finely stranded<ul style="list-style-type: none"><li>• with conductor end processing</li></ul></li></ul></li><li>• for AWG conductors / for main contacts</li><li>• for auxiliary contacts<ul style="list-style-type: none"><li>• solid</li><li>• finely stranded<ul style="list-style-type: none"><li>• with conductor end processing</li></ul></li></ul></li><li>• for AWG conductors / for auxiliary contacts</li></ul>		2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )  2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (16 ... 12), 2x (14 ... 8)  2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )  2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) 2x (20 ... 16), 2x (18 ... 14)

**UL/CSA ratings:**

<b>Contact rating designation / for auxiliary contacts / according to UL</b>		B600 / R300
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**Certificates/approvals:**

**General Product Approval****For use in hazardous locations**

CCC



CSA



GOST



UL



ATEX

**Test Certificates**[Special Test Certificate](#)[Type Test Certificates/Test Report](#)**Shipping Approval**

ABS

BUREAU  
VERITAS

DNV



GL



LRS



PRS

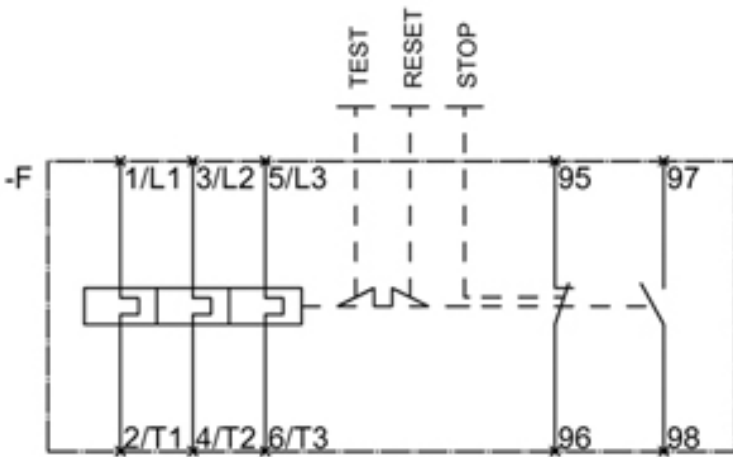
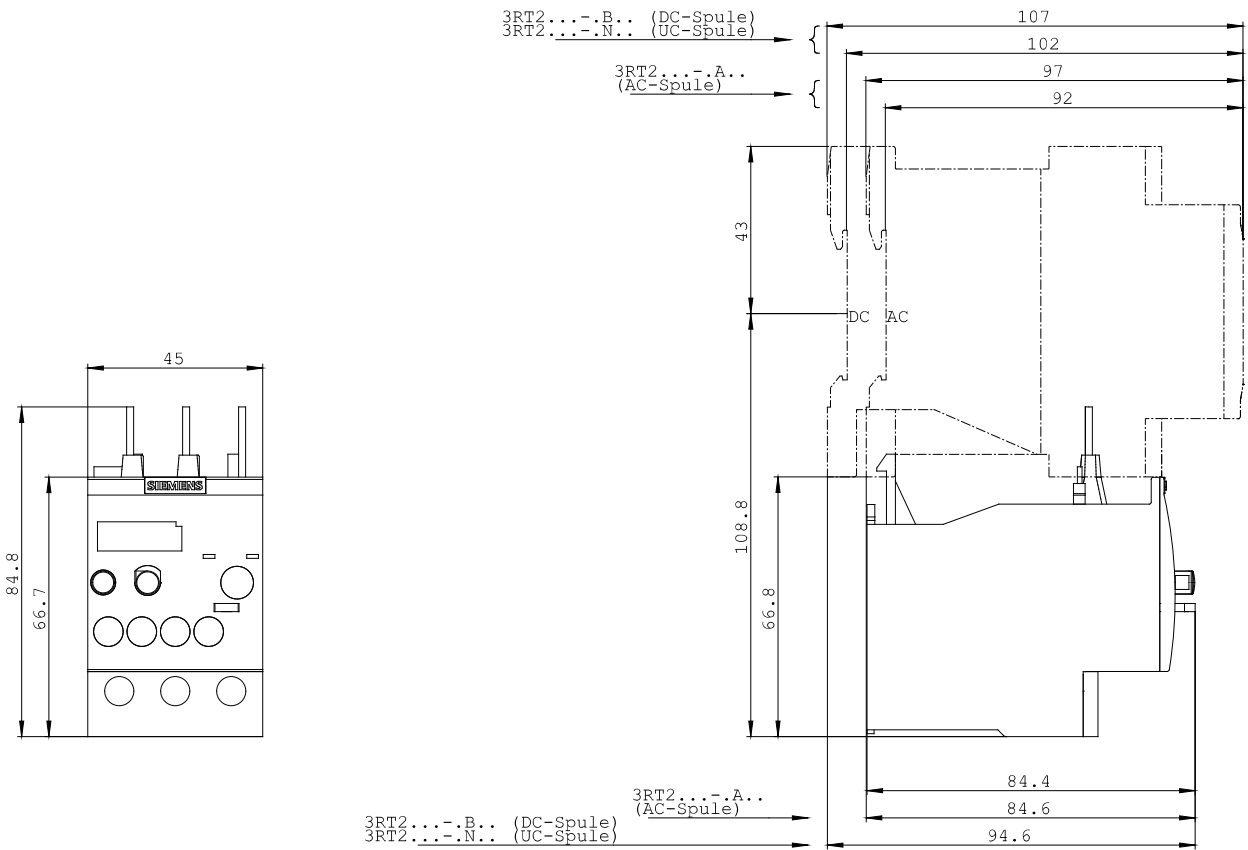
**Shipping Approval****other**

RINA



RMRS

[Declaration of Conformity](#)**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>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<http://support.automation.siemens.com/WW/view/en/3RU2126-4PB0/all>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RU2126-4PB0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2126-4PB0)



last change:

Apr 22, 2013