



OVERLOAD RELAY 1.4...2.0 A FOR MOTOR PROTECTION SZ S00, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL-AUTOMATIC-RESET

General technical data:		
Product brand name		SIRIUS
product designation		3RU2 thermal overload relay
Protection class IP / on the front		IP20
Insulation voltage / with degree of pollution 3		
• rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
• during transport	°C	-55 ... 80
• during storage	°C	-55 ... 80
• during operating	°C	-40 ... 70
Relative humidity		
• during operating phase	/ %	90
Resistance against shock		8g / 10 ms
Impulse voltage resistance / rated value	kV	6
Active power loss / total / typical	W	5.1
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		F
• according to DIN EN 61346-2		F

Trip class		CLASS 10
Type of assignment		2
Size of overload relay		S00
Size of the contactor / can be combined		
<ul style="list-style-type: none"> company-specific 		S00

Main circuit:

Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value		
<ul style="list-style-type: none"> maximum 	V	690
Operating current / at AC-3 / at 400 V		
<ul style="list-style-type: none"> rated value 	A	2
Service power / at AC-3		
<ul style="list-style-type: none"> at 400 V / rated value 	kW	0.75
<ul style="list-style-type: none"> at 500 V / rated value 	kW	0.75
<ul style="list-style-type: none"> at 690 V / rated value 	kW	1.1
Adjustable response current		
<ul style="list-style-type: none"> of the current-dependent overload release 	A	1.4 ... 2
Operating current / of the fuse link / rated value	A	6

Auxiliary circuit:

Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles
Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		1
Number of change-over switches / for auxiliary contacts		0
Operating current / of the auxiliary contacts		
<ul style="list-style-type: none"> at AC-15 		
<ul style="list-style-type: none"> at 24 V 	A	3
<ul style="list-style-type: none"> at 110 V 	A	3
<ul style="list-style-type: none"> at 120 V 	A	3
<ul style="list-style-type: none"> at 125 V 	A	3
<ul style="list-style-type: none"> at 230 V 	A	2
<ul style="list-style-type: none"> at 400 V 	A	1
<ul style="list-style-type: none"> at DC-13 		
<ul style="list-style-type: none"> at 24 V 	A	1
<ul style="list-style-type: none"> at 110 V 	A	0.22
<ul style="list-style-type: none"> at 125 V 	A	0.22
<ul style="list-style-type: none"> at 220 V 	A	0.11

Short-circuit:

Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gG: 10 A
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Installation/mounting/dimensions:

Built in orientation		vertical
Type of mounting		direct mounting
Width	mm	45
Height	mm	87
Depth	mm	73
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sideways	mm	6
Distance, to be maintained, to earthed part		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sideways	mm	6
Distance, to be maintained, conductive elements		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sideways	mm	6

Connections:

Design of the electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Product function / removable terminal for auxiliary and control circuit		No
Type of the connectable conductor cross-section		
• for main contacts		
• solid		2 x (0.5 ... 1.5 mm ²), 2 x (0.75 ... 2.5 mm ²), 2 x (0.5 ... 4 mm ²)
• stranded		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x 0.5 mm ² ... 2x 4 mm ²
• finely stranded		
• with conductor end processing		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)

- for AWG conductors / for main contacts
- for auxiliary contacts
 - solid
 - finely stranded
 - with conductor end processing
- for AWG conductors / for auxiliary contacts

2x (20 ... 16), 2x (18 ... 14)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14)

Certificates/approvals:

Verification of suitability

- ATEX

CE / UL / CSA

Yes

General Product Approval

For use in hazardous locations

Test Certificates



[ROSTEST](#)



[DEKRA EXAM, DMT](#)

[Manufacturer](#)

Shipping Approval



ABS



DNV



GL



LRS



PRS



RINA

Shipping Approval

other



RMRS

[Manufacturer](#)

UL/CSA ratings:

Contact rating designation / for auxiliary contacts / according to UL

B600 / R300

Reliability figures:

Mean time to failure (MTTF) / with high demand rate

a 2,280

Proportion of dangerous failures

- with low demand rate / according to SN 31920
- with high demand rate / according to SN 31920

% 50
% 50

Failure rate (FIT value) / with low demand rate

- according to SN 31920

FIT 50

T1 value / for proof test interval or service life

- according to IEC 61508

a 20

Protection against electrical shock

finger-safe

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:

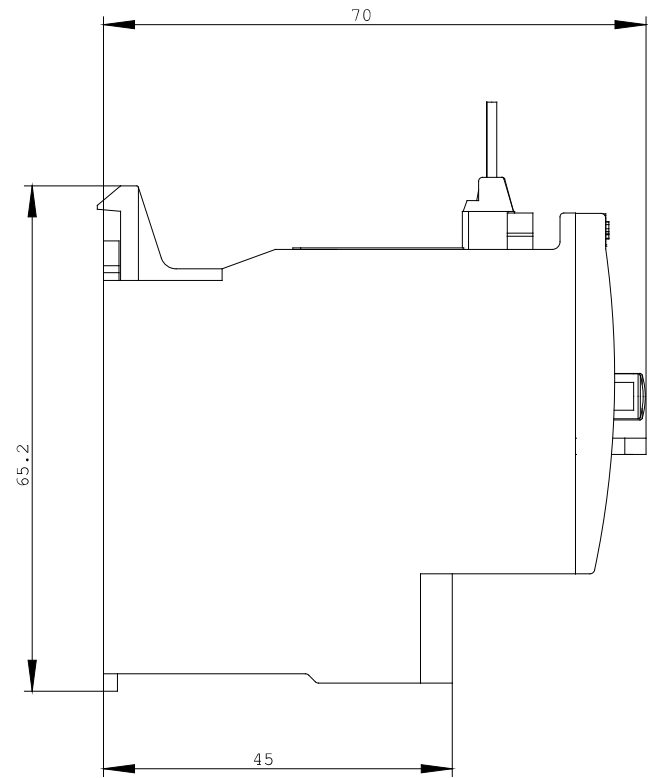
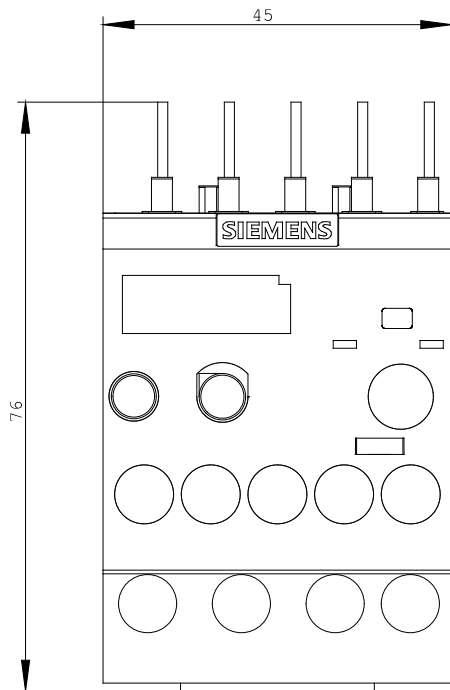
<http://www.siemens.com/cax>

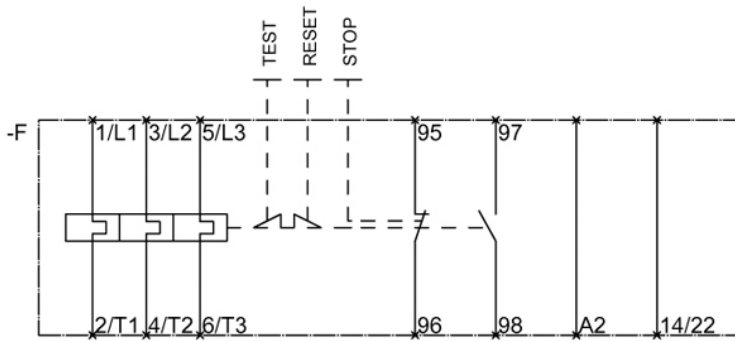
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RU2116-1BB0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2116-1BB0





last change:

Oct 28, 2011