



OVERLOAD RELAY 3...12 A FOR MOTOR PROTECTION
 SIZE S0,
 CLASS 5...30 CONTACTOR ASS. MAIN CIRCUIT: SCREW
 CONN. AUX.CIRCUIT: SCREW CONN. MANUAL-AUTOM.-
 RESET INT. GROUND FAULT DETECTION

General technical data:		
product brand name		SIRIUS
Product designation		solid-state overload relay
Size of overload relay		S0
Number of poles / for main current circuit		3
Product function / removable terminal for auxiliary and control circuit		Yes
Product function		
• overload protection		Yes
• Phase failure detection		Yes
• Ground fault detection		Yes
Product component		
• Auxiliary switch		Yes
• Trip indicator		Yes
Insulation voltage / with degree of pollution 3 / Rated value	V	690
Surge voltage resistance / Rated value	kV	6
Protection class IP		
• of the terminal		IP20
• on the front		IP20
Protection against electrical shock		finger-safe

Installation altitude / at height above sea level / maximum	m	2,000
Vibration resistance		1-6 Hz, 15 mm; 6-500 Hz, 20 m/s ² ; 10 cycles
Ambient temperature		
• during transport	°C	-40 ... +80
• during storage	°C	-40 ... +80
• during operation	°C	-25 ... +60
Relative humidity		
• during operation	/ %	95
EMI immunity / acc. to IEC 60947-1		corresponds to degree of severity 3
EMC emitted interference / acc. to IEC 60947-1		CISPR 11, environment B (residential area)
Electrostatic discharge / acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / acc. to IEC 61000-4-3		10 V/m
Conducted interference BURST / acc. to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
Conducted interference conductor-earth SURGE		2 kV (line to earth) corresponds to degree of severity 3
Conducted interference conductor-conductor SURGE		1 kV (line to line) corresponds to degree of severity 3
Type of protection		II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]
Active power loss / total / typical	W	0.6
Size of contactor / can be combined / company-specific		S0

Main circuit:

Type of voltage / for main current circuit		AC
Operating current		
• at AC-3 / at 400 V / Rated value	A	12
• of the auxiliary contacts		
• at AC-15		
• at 24 V	A	4
• at 110 V	A	4
• at 120 V	A	4
• at 125 V	A	4
• at 230 V	A	3
• at DC-13		
• at 24 V	A	2
• at 60 V	A	0.55
• at 110 V	A	0.3
• at 125 V	A	0.3
• at 220 V	A	0.11
Type of assignment		2

Control circuit/ Control:

Type of voltage supply / via input/output link master		No
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Type of voltage / for auxiliary and control current circuit		AC/DC
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Auxiliary circuit:

Design of the auxiliary switch		integrated
Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		1
Number of CO contacts / for auxiliary contacts		0
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gG: 6 A

Protective and monitoring functions:

Design of the overload circuit breaker		electronic
Trip class		CLASS 5, 10, 20 and 30 adjustable
Adjustable response value current		
<ul style="list-style-type: none"> of the current-dependent overload release 	A	3 ... 12

Installation/ mounting/ dimensions:

Mounting type		direct mounting
mounting position		any
Depth	mm	84
Height	mm	87
Width	mm	45
Arrangement of electrical connectors / for main current circuit		Top and bottom

Connections/ terminals:

Design of the electrical connection		
<ul style="list-style-type: none"> for main current circuit for auxiliary and control current circuit 		screw-type terminals screw-type terminals
Type of connectable conductor cross-section		
<ul style="list-style-type: none"> for main contacts <ul style="list-style-type: none"> single or multi-stranded finely stranded <ul style="list-style-type: none"> with core end processing for AWG conductors / for main contacts for auxiliary contacts <ul style="list-style-type: none"> single or multi-stranded finely stranded <ul style="list-style-type: none"> with core end processing for AWG conductors / for auxiliary contacts 		1x (1 ... 10 mm ²), 2x (1 ... 10 mm ²) 1x (1 ... 6 mm ²), 2 x (1 ... 6 mm ²), 1x 10 mm ² 1x (16 ... 8), 2x (16 ... 8) 1x (0,5 ... 4 mm ²), 2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²) 1x (0,5 ... 1.5 mm ²), 2x (0.5 ... 1.5 mm ²), 1x (0.5 ... 2.5 mm ²) 1x (20 ... 14), 2x (20 ... 14)

UL/CSA ratings:

Contact rating / of the auxiliary contacts / acc. to UL

B300 / R300

Certificates/ approvals:

General Product Approval

EMC

For use in hazardous locations



CCC



CSA



UL



C-TICK



ATEX

Declaration of Conformity

Test Certificates



EG-Konf.

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Shipping Approval

other



ABS



BUREAU VERITAS



GL



LRS



RINA

[Environmental Confirmations](#)

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

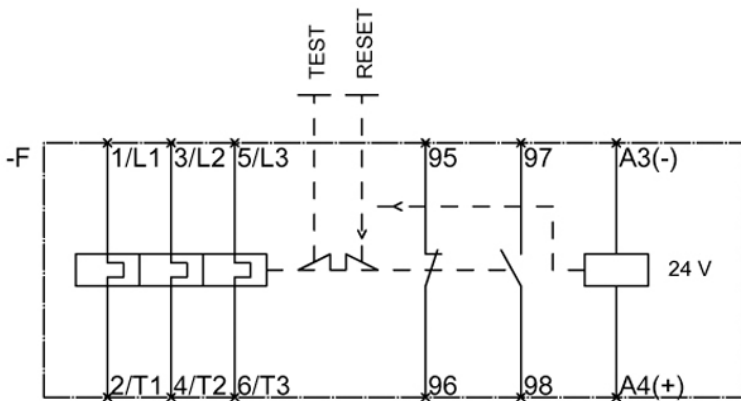
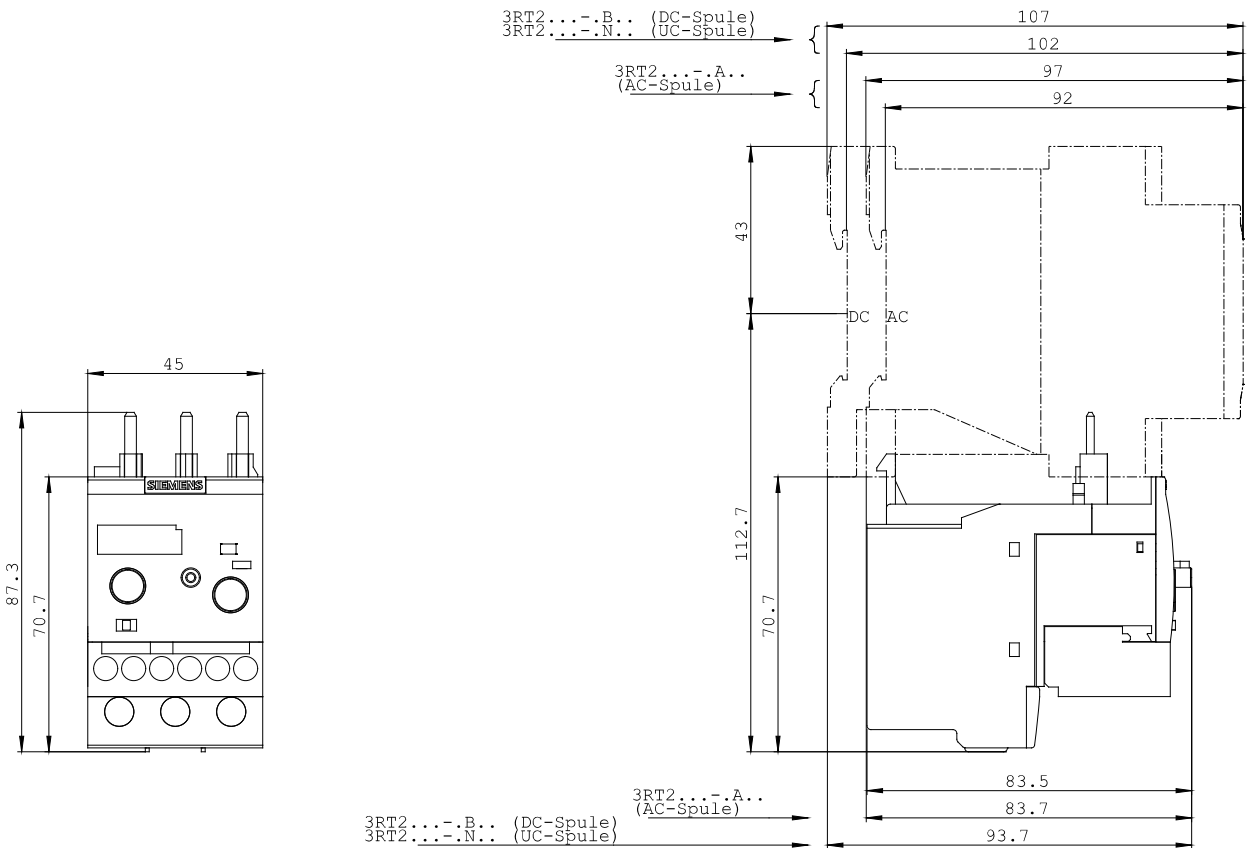
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WWW/view/en/3RB3123-4SB0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3123-4SB0



last change:

Oct 29, 2014