



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:		
product brand name		SIRIUS
product designation		3RU2 thermal overload relay
Size of overload relay		S0
Number of poles / for main current circuit		3
Product function / removable terminal for auxiliary and control circuit		No
Impulse voltage resistance / rated value	kV	6
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Installation altitude / at a height over sea level / maximum	m	2,000
Resistance against shock		8g / 11 ms
Ambient temperature		
• during transport	°C	-55 ... +80
• during storage	°C	-55 ... +80
• during operating	°C	-40 ... +70
Relative humidity		
• during operating phase	/ %	90
Active power loss / total / typical	W	7.5
Size of the contactor / can be combined / company-specific		S0

Main circuit:		
Operating current / of the fuse link / rated value	A	80
Service power / at AC-3		
• at 400 V / rated value	kW	18.5
• at 500 V / rated value	kW	22
• at 690 V / rated value	kW	30
Operational current / at AC-3 / at 400 V / rated value	A	36
Type of assignment		2

Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		1
Number of changeover contacts / for auxiliary contacts		0
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gG: 10 A
Operating current / of the auxiliary contacts / at AC-15		
• 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
Operating current / of the auxiliary contacts / at DC-13		
• 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:		
Trip class		CLASS 10
Adjustable response current		
• of the current-dependent overload release	A	30 ... 36

Safety:		
Proportion of dangerous failures		
• with high demand rate / according to SN 31920	%	50
• with low demand rate / according to SN 31920	%	50
Mean time to failure (MTTF) / with high demand rate	a	2,280
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

Installation/mounting/dimensions:

Type of mounting		direct mounting
mounting position		vertical
Depth	mm	85
Height	mm	85
Width	mm	45

Connections:

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

UL/CSA ratings:

Contact rating designation / for auxiliary contacts / according to UL		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

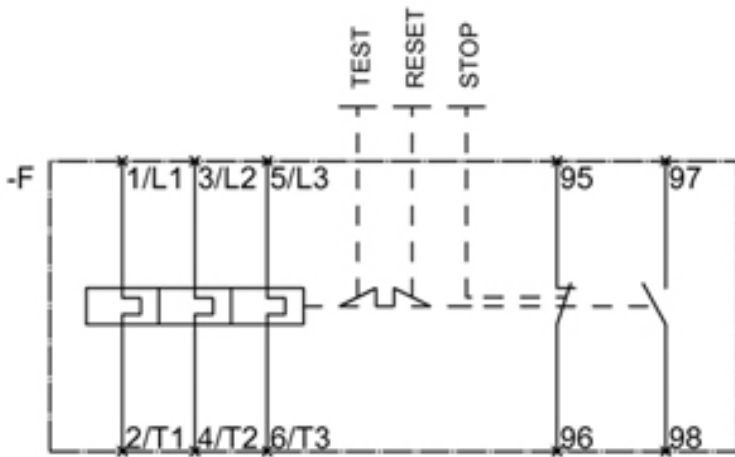
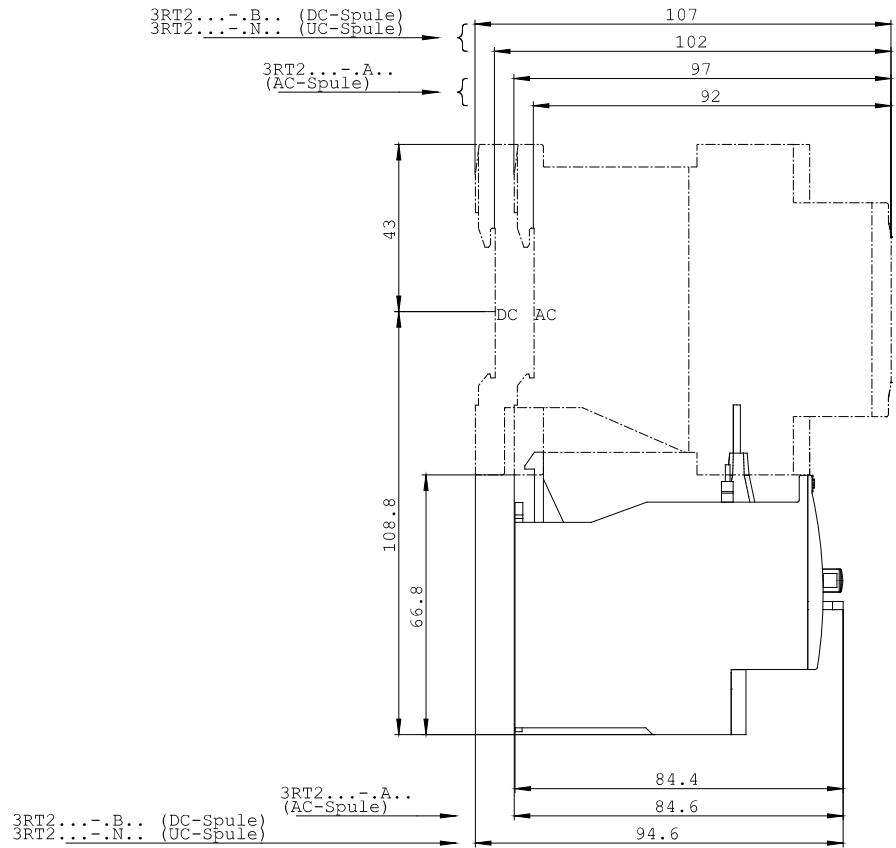
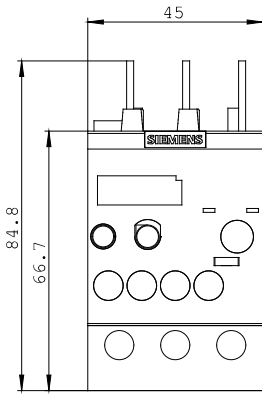
Shipping Approval**other**

RINA



RMRS

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last change:

Apr 22, 2013