



OVERLOAD RELAY 70...80 A FOR MOTOR PROTECTION SIZE S2, CLASS 10A STAND-ALONE INSTALLATION MAIN CIRCUIT: SCREW TERM. AUX. CIRCUIT: SPRING-TYPE TER. MANUAL/AUTOMATIC RESET

Figure similar

product brand name	SIRIUS
Product designation	3RU2 thermal overload relay

General technical data:

Active power loss total typical	W	14
Insulation voltage	V	690
• with degree of pollution 3 Rated value		
Shock resistance		8g / 11 ms
• acc. to IEC 60068-2-27		
Surge voltage resistance Rated value	kV	6
Temperature compensation	°C	-40 ... +60
Recovery time		
• after overload trip with automatic reset typical	min	10
• after overload trip with remote-reset	min	10
• after overload trip with manual reset	min	10
Size of contactor can be combined company-specific		S2
Type of assignment		2
Protection class IP		
• on the front		IP20
• of the terminal		IP00
Type of protection		on request
Equipment marking		
• acc. to DIN EN 81346-2		F

Main circuit:

Number of poles for main current circuit	3
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Adjustable response value current of the current-dependent overload release	A	70 ... 80
Operating voltage		
• Rated value	V	690
• at AC-3 Rated value maximum	V	690
Operating frequency Rated value	Hz	50 ... 60
Operating current Rated value	A	80
Operating current		
• at AC-3		
— at 400 V Rated value	A	80

Auxiliary circuit:

Number of NC contacts		
• for auxiliary contacts		1
— Note		for contactor disconnection
Number of NO contacts		
• for auxiliary contacts		1
— Note		for message "Tripped"
Number of CO contacts		
• for auxiliary contacts		0
Design of the auxiliary switch		integrated
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	2
• at 110 V	A	0.22
• at 125 V	A	0.22
• at 220 V	A	0.11
Design of the miniature circuit breaker		
• for short-circuit protection of the auxiliary switch required		6A (SCC less than equal to 0.5 kA; U less than equal to 260V)

Protective and monitoring functions:

Trip class		CLASS 10A
Design of the overload circuit breaker		thermal

UL/CSA ratings:

Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	A	80

• at 600 V Rated value	A	80
Contact rating of the auxiliary contacts acc. to UL		B600 / R300

Short-circuit:

Design of the fuse link		
<ul style="list-style-type: none"> • for short-circuit protection of the main circuit <ul style="list-style-type: none"> — required • for short-circuit protection of the auxiliary switch required 		Fuse gG: 160 A fuse gG: 6 A, quick: 10 A

Installation/ mounting/ dimensions:

mounting position		any
Mounting type		stand-alone installation
Height	mm	105
Width	mm	55
Depth	mm	117
Required spacing		
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards — Backwards — upwards — downwards — at the side • for grounded parts <ul style="list-style-type: none"> — forwards — Backwards — upwards — at the side — downwards • for live parts <ul style="list-style-type: none"> — forwards — Backwards — upwards — downwards — at the side 	mm	10 0 10 10 10 10 0 10 10 10 10 0 10 10 10

Connections/ Terminals:

Type of electrical connection		
<ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit 		screw-type terminals spring-loaded terminals
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function		

<ul style="list-style-type: none"> removable terminal for auxiliary and control circuit 		No
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 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 with core end processing finely stranded without core end processing for AWG conductors for auxiliary contacts 		2x (1 ... 35 mm ²), 1x (1 ... 50 mm ²) 2x (1 ... 25 mm ²), 1x (1 ... 35 mm ²) 2x (18 ... 2), 1x (18 ... 1) 2x (0,5 ... 2,5 mm ²) 2x (0.5 ... 1.5 mm ²) 2x (0.5 ... 2.5 mm ²) 2x (20 ... 14)
Tightening torque <ul style="list-style-type: none"> for main contacts with screw-type terminals 	N·m	3 ... 4.5
Design of screwdriver shaft		5 to 6 mm diameter
Design of the thread of the connection screw <ul style="list-style-type: none"> for main contacts 		M6

Safety related data:

Protection against electrical shock		finger-safe when touched vertically from front acc. to IEC 60529
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Mechanical data:

Size of overload relay		S2
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Ambient conditions:

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
<ul style="list-style-type: none"> during operation 	°C	-40 ... +70
<ul style="list-style-type: none"> during storage 	°C	-55 ... +80
<ul style="list-style-type: none"> during transport 	°C	-55 ... +80
Relative humidity during operation	%	0 ... 90

Display:

Display version		
<ul style="list-style-type: none"> for switching status 		Slide switch

Certificates/ approvals:

General Product Approval	For use in hazardous locations	Declaration of Conformity	Test Certificates
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[Type Test Certificates/Test Report](#)

Test Certificates	other
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[Special Test Certificate](#)

[Confirmation](#)

[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

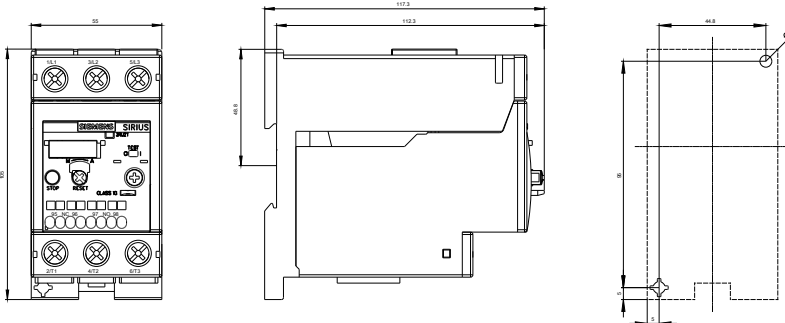
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU21364RD1>

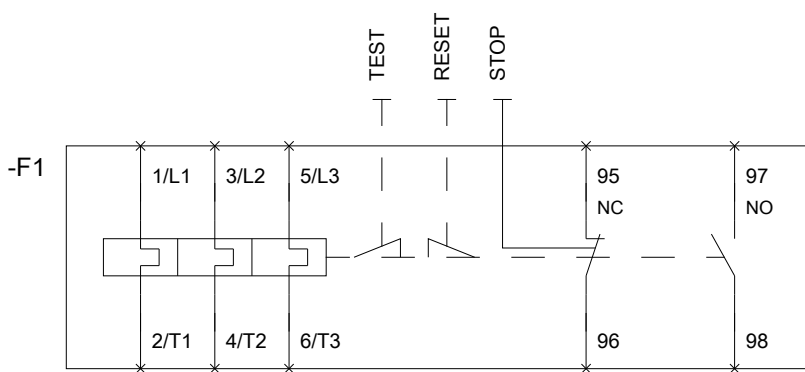
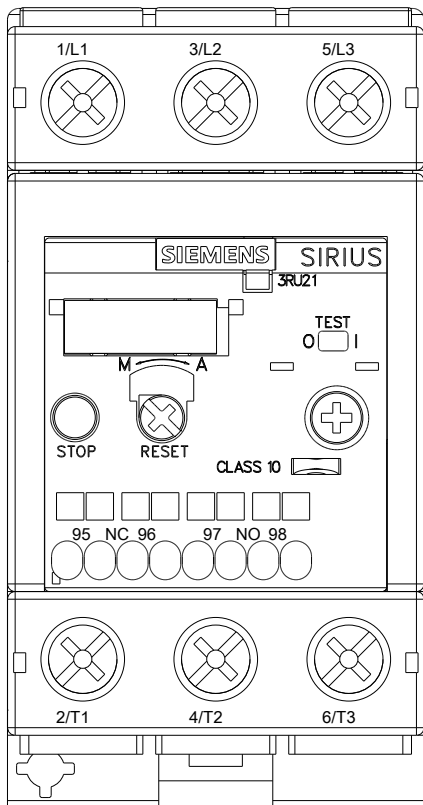
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RU21364RD1/all>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU21364RD1&lang=en





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