SIEMENS

Data sheet 3RU2136-4KD1

Figure similar

OVERLOAD RELAY 62...73 A FOR MOTOR PROTECTION SIZE S2, CLASS 10A STAND-ALONE INSTALLATION MAIN CIRCUIT: SCREW TERM. AUX. CIRCUIT: SPRING-TYPE TER. MANUAL/AUTOMATIC RESET

product brand name		SIRIUS
Product designation		3RU2 thermal overload relay

General technical data:		
Active power loss total typical	W	13
Insulation voltage		
• with degree of pollution 3 Rated value	V	690
Shock resistance		
• acc. to IEC 60068-2-27		8g / 11 ms
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

Adjustable response value current of the current-dependent overload release	A	62 ... 73
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	73
Operating current		
• at AC-3		
— at 400 V Rated value	A	73

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	73

• at 600 V Rated value	A	73
Contact rating of the auxiliary contacts acc. to UL		B600 / R300

Short-circuit:		
Design of the fuse link		
• for short-circuit protection of the main circuit		
— required		Fuse gG: 160 A
• for short-circuit protection of the auxiliary switch required		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		
• with side-by-side mounting		
— forwards	mm	10
— Backwards	mm	0
— upwards	mm	10
— downwards	mm	10
— at the side	mm	10
• for grounded parts		
— forwards	mm	10
— Backwards	mm	0
— upwards	mm	10
— at the side	mm	10
— downwards	mm	10
• for live parts		
— forwards	mm	10
— Backwards	mm	0
— upwards	mm	10
— downwards	mm	10
— at the side	mm	10

Connections/ Terminals:		
Type of electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		spring-loaded terminals
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function		

• removable terminal for auxiliary and control circuit		No
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		2x (1 ... 35 mm²), 1x (1 ... 50 mm²)
— finely stranded with core end processing		2x (1 ... 25 mm²), 1x (1 ... 35 mm²)
• for AWG conductors for main contacts		2x (18 ... 2), 1x (18 ... 1)
• for auxiliary contacts		
— single or multi-stranded		2x (0,5 ... 2,5 mm²)
— finely stranded with core end processing		2x (0.5 ... 1.5 mm²)
— finely stranded without core end processing		2x (0.5 ... 2.5 mm²)
• for AWG conductors for auxiliary contacts		2x (20 ... 14)
Tightening torque		
• 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		
• for main contacts		M6
Safety related data:		
Protection against electrical shock		finger-safe when touched vertically from front acc. to IEC 60529
Mechanical data:		
Size of overload relay		S2
Ambient conditions:		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-40 ... +70
• during storage	°C	-55 ... +80
• during transport	°C	-55 ... +80
Relative humidity during operation	%	0 ... 90
Display:		
Display version		
• for switching status		Slide switch
Certificates/ approvals:		

General Product Approval			For use in hazardous locations	Declaration of Conformity	Test Certificates
CSA	EAC	UL	ATEX	EG-Konf.	Type Test Certificates/Test Report

Test Certificates	other	
Special Test Certificate	Confirmation	Environmental Confirmations

Further information

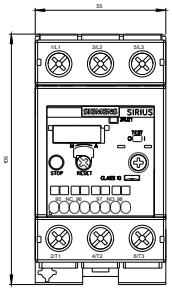
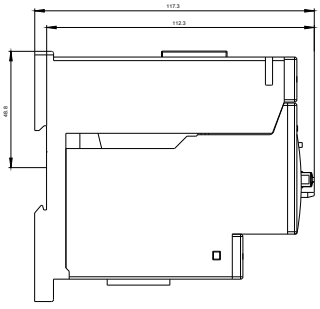
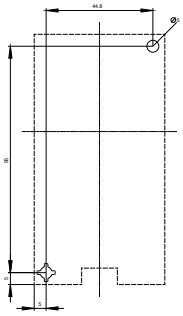
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

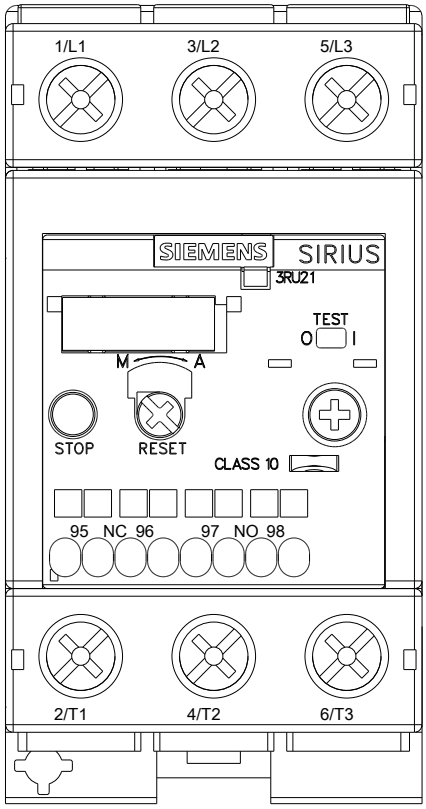
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

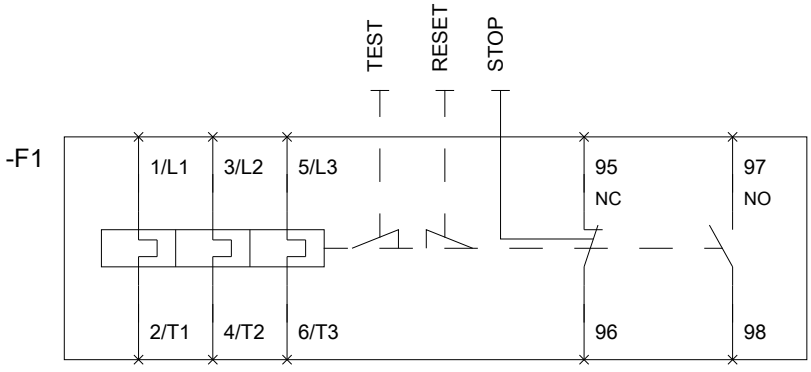
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU21364KD1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RU21364KD1/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=3RU21364KD1&lang=en





last modified: 11.03.2015