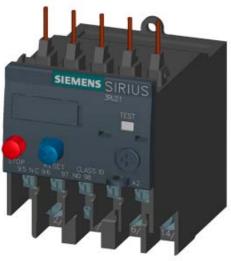
SIEMENS

Data sheet

3RU2116-1CJ0



OVERLOAD RELAY 1.8...2.5 A FOR MOTOR PROTECTION SZ S00, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT: RING CABLE LUG AUX. CIRCUIT: RING CABLE LUG MANUAL-AUTOMATIC-RESET

product brand name	_	SIRIUS
Product designation	_	3RU2 thermal overload relay
General technical data:		
Active power loss total typical	W	5.1
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
Size of contactor can be combined company-specific		S00
Type of assignment		2
Protection class IP		
• on the front		IP20
• of the terminal		IP20
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-	А	1.8 2.5
dependent overload release		
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	А	2.5
Operating current		
• at AC-3		
— at 400 V Rated value	А	2.5
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	А	3
• at 110 V	А	3
• at 120 V	А	3
• at 125 V	А	3
• at 230 V	А	2
• at 400 V	А	1
Operating current of the auxiliary contacts at DC-13		
• at 24 V	А	2
• at 110 V	А	0.22
• at 125 V	А	0.22
• at 220 V	А	0.11
Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker		thermal
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	А	2.5
• at 600 V Rated value	А	2.5
Contact rating of the auxiliary contacts acc. to UL		B600 / R300
Installation/ mounting/ dimensions:		
mounting position		any
Mounting type		direct mounting
Height	mm	76
Width	mm	45
Depth	mm	70
Required spacing		

 with side-by-side mounting 		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6
 for grounded parts 		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	6
— at the side	mm	6
— downwards	mm	6
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6

Connections/ Terminals:

Type of electrical connection		
 for main current circuit 		ring cable connection
 for auxiliary and control current circuit 		ring cable connection
Arrangement of electrical connectors for main current	_	Top and bottom
circuit		
Product function		
 removable terminal for auxiliary and control 		No
circuit		
Tightening torque		
 for ring cable lug 		
— for main contacts	N∙m	1.2 0.8
— for auxiliary contacts	N∙m	0.8 1.2
Outer diameter of the usable ring cable lug maximum	mm	7.5
Design of screwdriver shaft		5 to 6 mm diameter
Design of the thread of the connection screw		
• for main contacts		M3
 of the auxiliary and control contacts 		М3
Safety related data:		
Proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	%	50
• with high demand rate acc. to SN 31920	%	50

Failure rate [FIT] wit 31920	th low demand rate	acc. to SN	FIT	50		
MTTF with high den	nand rate		у	2 280		
T1 value for proof te IEC 61508		e life acc. to	У	20		
Protection against e	electrical shock			finger-safe		
Mechanical data:						
Size of overload rela	ay			S00		
			_			
Ambient conditions		lovel	m	2 000		
maximum	at height above sea			2 000		
Ambient temperatur	ſe					
 during operation 			°C	-40 +70		
 during storage 			°C	-55 +80		
 during transpo 			°C	-55 +80		
Relative humidity du			%	0 90		
-	0.1					
Display:						
Display version						
 for switching s 	status			Slide switch		
Certificates/ approv	vals:					
General Produc					For use in hazardous locations	Declaration of Conformity
General Product		EAC	(B	hazardous	
	ct Approval	ERE Shipping A		P	hazardous locations	Conformity
	ct Approval	ERE Shipping A W	BU		hazardous locations	Conformity
Cccc Test Certificates Type Test Certificates/Test	s <u>Special Test</u> <u>Certificate</u>	ALCAN BITTER	BU		hazardous locations	Conformity Cec Cec EG-Konf.
Ccc Test Certificates Type Test Certificates/Test Report	s <u>Special Test</u> <u>Certificate</u>	ALCAN BITTER			hazardous locations	Conformity Cec Cec EG-Konf.

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

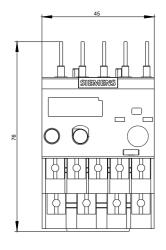
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

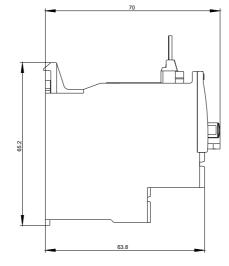
Cax online generator

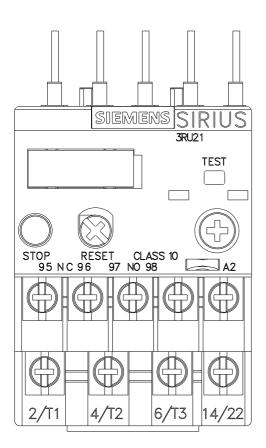
http://support.automation.siemens.com/WW/CAX order/default.aspx?lang=en&mlfb=3RU21161CJ0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RU21161CJ0/all

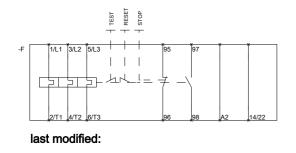
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU21161CJ0&lang=en







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11.03.2015