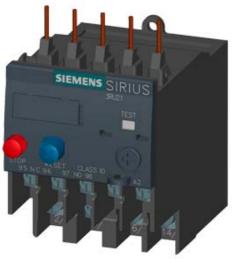
SIEMENS

Data sheet

3RU2116-1FJ0



OVERLOAD RELAY 3.5...5.0 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	6.1
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	3.5 5
dependent overload release		
Operating voltage		
Rated value	V	690
 at AC-3 Rated value maximum 	V	690

Hz

Operating frequency Rated value

50 ... 60

Operating current Rated value	A	5
Operating current		
• at AC-3		
— at 400 V Rated value	А	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	A	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	5
	A	5
at 600 V Rated value Contact rating of the auxiliary contacts acc. to UL	~	B600 / R300
		B0007 K300
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 circuit		Top and bottom
Product function	-	
 removable terminal for auxiliary and control circuit 		No
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 		M3
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	h low demand rate	acc. to SN	FIT	50		
MTTF with high dem	nand rate		у	2 280		
T1 value for proof te IEC 61508		e life acc. to	у	20		
Protection against e	lectrical shock			finger-safe		
Mechanical data:						
Size of overload rela	ay			S00		
	-					
Ambient conditions: Installation altitude a		lovel	m	2 000		
maximum	at neight above sea			2 000		
Ambient temperature	e					
 during operation 			°C	-40 +70		
 during storage 			°C	-55 +80		
 during transpo 			°C	-55 +80		
Relative humidity du			%	0 90		
-	3 1					
Display:				_		
Display version						
 for switching s 	tatus			Slide switch		
Certificates/ approv	als:					
General Produc					For use in hazardous locations	Declaration of Conformity
General Product		EAC	(L	Ð	hazardous	
	t Approval	ERE Shipping A		Ð	hazardous locations	Conformity
	t Approval	ERE Shipping A	Approval		hazardous locations	Conformity
Cccc Test Certificates Type Test Certificates/Test	t Approval	ALCAN BITTE	Approval		hazardous locations	Conformity Cec Cec EG-Konf.
Cccc Test Certificates Type Test Certificates/Test Report	t Approval	ALCAN BITTE	Approval		hazardous locations	Conformity Cec Cec EG-Konf.

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

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

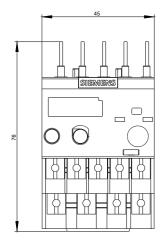
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

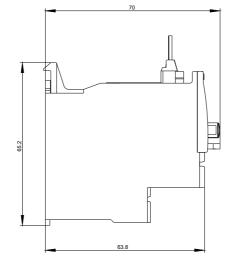
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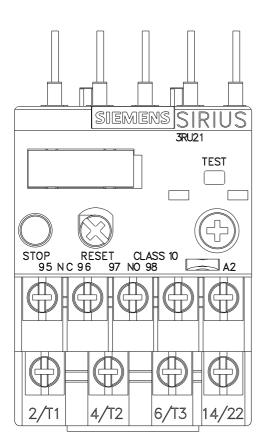
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU21161FJ0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RU21161FJ0/all

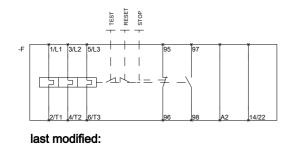
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU21161FJ0&lang=en







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11.03.2015