SIEMENS

Data sheet

3RU2116-0CB0



OVERLOAD RELAY 0.18...0.25 A FOR MOTOR PROTECTION SZ S00, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL-AUTOMATIC-RESET

product brand name		SIRIUS			
Product designation		3RU2 thermal overload relay			
General technical data:					
Active power loss total typical	W	4.1			
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:	Main circuit:				
Number of poles for main current circuit		3			
Adjustable response value current of the current-	А	0.18 0.25			
dependent overload release					
Operating voltage					
Rated value	V	690			
 at AC-3 Rated value maximum 	V	690			
Operating frequency Rated value	Hz	50 60			

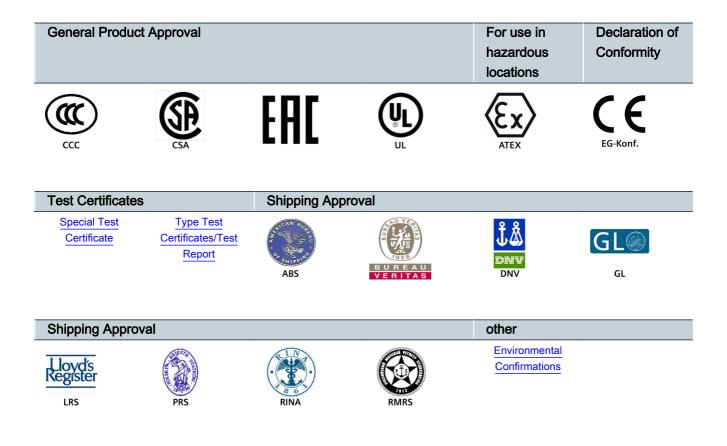
Operating current Rated value	А	0.25
Operating current		
• at AC-3		
— at 400 V Rated value	А	0.25
Auxiliary circuit:		
Number of NC contacts		
for auxiliary contacts		1
— Note		for contactor disconnection
Number of NO contacts		
for auxiliary contacts		1
— Note		for message "Tripped"
Number of CO contacts		
• 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	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	0.25
at 600 V Rated value	A	0.25
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 Required encoing	mm	70
Required spacing		

mm	0
mm	0
mm	6
mm	6
mm	6
mm	0
mm	0
mm	6
mm	6
mm	6
mm	0
mm	0
mm	6
mm	6
mm	6
	mm mm mm mm mm mm mm mm mm

Connections/ Terminals:

Type of electrical connection		
 for main current circuit 		screw-type terminals
 for auxiliary and control current circuit 		screw-type 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 (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
— finely stranded with core end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for main contacts 		2x (20 16), 2x (20 18), 2x 12
 for auxiliary contacts 		
— single or multi-stranded		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
 finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 16), 2x (18 14)
Tightening torque		
 for main contacts with screw-type terminals 	N∙m	0.8 1.2
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] with low demand rate acc. to SN 31920	FIT	50	
MTTF with high demand rate	У	2 280	
T1 value for proof test interval or service life acc. to IEC 61508	У	20	
Protection against electrical shock	-	finger-safe	
Mechanical data:			
Size of overload relay		S00	
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:			



Further information

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

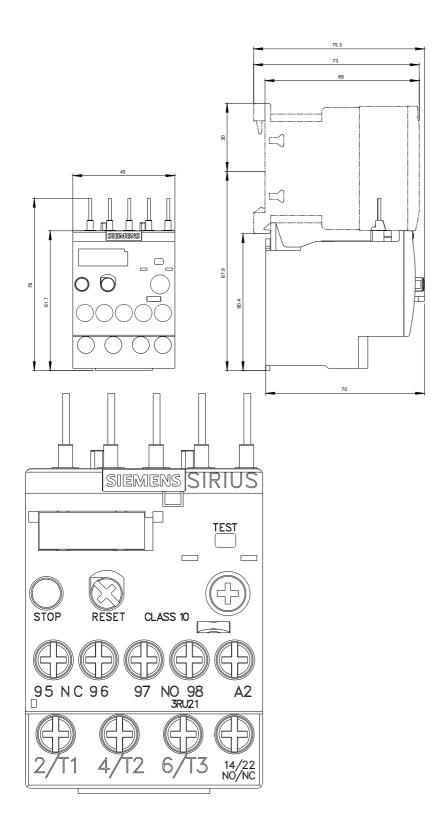
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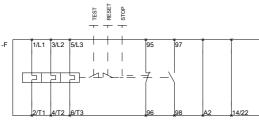
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU21160CB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RU21160CB0/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=3RU21160CB0&lang=en



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