SIEMENS

Product data sheet

OVERLOAD RELAY 0.70...1.0 A FOR MOTOR PROTECTION SZ S00, CLASS 10, STAND-ALONE INSTALLATION MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL-AUTOMATIC-RESET

General technical data:		
Product brand name		SIRIUS
product designation		3RU2 thermal overload relay
Protection class IP / on the front		IP20
Insulation voltage / with degree of pollution 3		
rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during transport	°C	-55 80
during storage	°C	-55 80
during operating	°C	-40 70
Relative humidity		
during operating phase	/ %	90
Resistance against shock		8g / 10 ms
Impulse voltage resistance / rated value	kV	6
Active power loss / total / typical	W	4.5
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F
according to DIN EN 61346-2		F
Trip class		CLASS 10
Type of assignement		2
Size of overload relay		\$00
Size of the contactor / can be combined		
• company-specific		S00
Main circuit:		
Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value		
• maximum	V	690

Operating current / at AC-3 / at 400 V	-	
rated value	А	1
Service power / at AC-3	-	
• at 400 V / rated value	kW	0.25
• at 500 V / rated value	kW	0.37
• at 690 V / rated value	kW	0.55
Adjustable response current		
• of the current-dependent overload release	А	0.7 1
Operating current / of the fuse link / rated value	А	4

Auxiliary circuit:

	< 1 error per 100 million operating cycles
	1
	1
	0
А	3
А	3
А	3
А	3
А	2
А	1
А	1
А	0.22
А	0.22
А	0.11
	A A A A A A A

Short-circuit:			
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gG: 10 A	
Installation/mounting/dimensions:			
Built in orientation		vertical	
Type of mounting		stand-alone installation	
Width	mm	45	
Height	mm	87	
Depth	mm	73	
Distance, to be maintained, to the ranks assembly			
forwards	mm	0	

backwards	mm	0
• upwards	mm	6
downwards	mm	6
• sidewards	mm	6
Distance, to be maintained, to earthed part		
• forwards	mm	0
backwards	mm	0
• upwards	mm	6
downwards	mm	6
• sidewards	mm	6
Distance, to be maintained, conductive elements		
• forwards	mm	0
backwards	mm	0
• upwards	mm	6
downwards	mm	6
• sidewards	mm	6

Connections:

Design of the electrical connection			
for main current circuit		screw-type terminals	
 for auxiliary and control current circuit 		screw-type terminals	
Product function / removable terminal for auxiliary and control circuit	_	No	
Type of the connectable conductor cross-section			
for main contacts			
• solid		2 x (0.5 1.5 mm²), 2 x (0.75 2.5 mm²), 2 x (0.5 4 mm²)	
• stranded		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2), 2x 0.5 mm2 2x 4 mm2	
finely stranded			
with conductor end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
• for AWG conductors / for main contacts		2x (20 16), 2x (18 14)	
 for auxiliary contacts 			
• solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
finely stranded			
with conductor 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)	
Certificates/approvals:			
Verification of suitability		CE / UL / CSA	
• ATEX		No	

General Product Ap	proval			For use in hazardous locations	Test Certificates
COC	(SA)	ROSTEST		DEKRA EXAM, DMT	Manufacturer
Shipping Approval					
ABS		GL	Lloyd's Register LRS	PRS	RINA
Shipping Approval	other				
RMRS	Manufacturer				
UL/CSA ratings:					
	ation / for auxilia	ry contacts / according to		B600 / R300	
UL					
Reliability figures:					
Mean time to failure (I	MTTF) / with high	demand rate	а	2,280	
Proportion of danger	ous failures				
 with low demand rate 	ate / according to \$	SN 31920	%	50	
 with high demand r 	rate / according to	SN 31920	%	50	
Failure rate (FIT value) / with low demand rate					
 according to SN 31 	1920		FIT	50	
T1 value / for proof te	st interval or server	vice life			
 according to IEC 6 	1508		а	20	
Protection against ele	ectrical shock			finger-safe	
Further information):				
Information- and Dow http://www.siemens.com					
Industry Mall (Online http://www.siemens.com					
Cax online generator: http://www.siemens.com					
		s, Characteristics, FAQs,) /W/view/en/3RU2116-0JB1/a			
		limension drawings, 3D mod db/cax_en.aspx?mlfb=3RU21		ircuit diagrams,)	
last change:	St change: Oct 24, 2011				

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