SIEMENS

Product data sheet

3RU2126-1FB0



OVERLOAD RELAY 3.5...5.0 A FOR MOTOR PROTECTION SZ S0, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL-AUTOMATIC-RESET

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	General technical data:

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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	6.1		
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		S0	
Size of the contactor / can be combined			
• company-specific		S0	
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	5	
Service power / at AC-3			
• at 400 V / rated value	kW	1.5	
• at 500 V / rated value	kW	2.2	
• at 690 V / rated value	kW	4	
Adjustable response current			
of the current-dependent overload release	А	3.5 5	
Operating current / of the fuse link / rated value	А	20	

Auxiliary circuit:				
Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles		
Number of NC contacts / for auxiliary contacts		1		
Number of NO contacts / for auxiliary contacts		1		
Number of change-over switches / for auxiliary contacts		0		
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		
• at DC-13				
• at 24 V	А	1		
• at 110 V	А	0.22		
• at 125 V	А	0.22		
• at 220 V	А	0.11		

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		direct mounting		
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		2x (1 2.5 mm2), 2x (2.5 10 mm2)		
• stranded		2x (1.0 2.5 mm2), 2x (2.5 10 mm2)		
finely stranded				
with conductor end processing		2x (1 2.5 mm2), 2x (2.5 6 mm2), 1x 10 mm2		
for AWG conductors / for main contacts		2x (16 12), 2x (14 8)		

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 conductor 	rs / for auxiliary conta	acts		2x (20 16), 2x (18 14)			
Certificates/approv	als:						
Verification of suitability				CE / UL / CSA			
• ATEX				No	No		
General Product Ap	proval				For use in hazardous locations	Test Certificates	
COC	(SA) CSA	ROSTEST			DEKRA EXAM, DMT	Manufacturer	
Shipping Approval							
ABS		GL	Lloyd's Register Lrs		PRS	RINA	
Shipping Approval	other						
RMRS	Manufacturer						

Reliability figures:			
Mean time to failure (MTTF) / with high demand rate	а	2,280	
Proportion of dangerous failures			
with low demand rate / according to SN 31920	%	50	
with high demand rate / according to SN 31920	%	50	
Failure rate (FIT value) / with low demand rate			
according to SN 31920	FIT	50	
T1 value / for proof test interval or service life			
according to IEC 61508	а	20	
Protection against electrical shock		finger-safe	

Further information:

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

Industry Mall (Online ordering system)

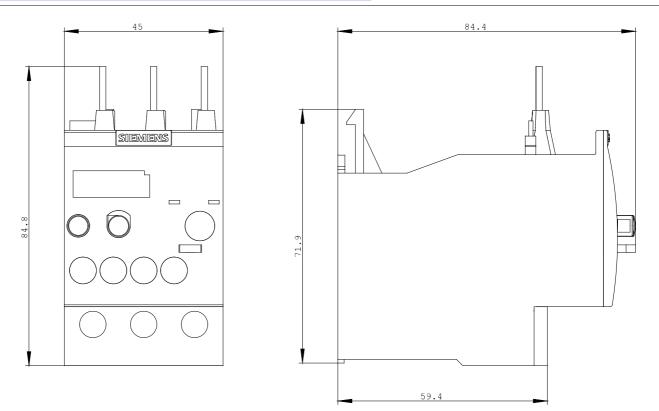
http://www.siemens.com/industrial-controls/mall

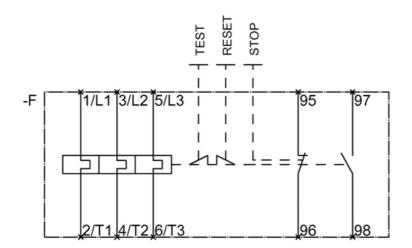
Cax online generator:

http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RU2126-1FB0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2126-1FB0





last change:

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