SIEMENS

Product data sheet 3RU2126-1GB0



OVERLOAD RELAY 4.5...6.3 A FOR MOTOR PROTECTION SZ S0, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT:

MANUAL-AUTOMATIC-RESET

SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL

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 ٧ 690 Installation altitude / at a height over sea level / maximum 2,000 m **Ambient temperature** °C -55 ... 80 during transport • during storage °C -55 ... 80 during operating °C -40 ... 70 Relative humidity • during operating phase /% Resistance against shock 8g / 10 ms Impulse voltage resistance / rated value 6 kV

Item designation

to IEC 750

Active power loss / total / typical

• according to DIN EN 61346-2

• according to DIN 40719 extendable after IEC 204-2 / according

W

5.7

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	Α	6.3	
Service power / at AC-3			
• at 400 V / rated value	kW	2.2	
• at 500 V / rated value	kW	3	
at 690 V / rated value	kW	4	
Adjustable response current			
of the current-dependent overload release	Α	4.5 6.3	
Operating current / of the fuse link / rated value	Α	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	Α	3	
• at 110 V	Α	3	
• at 120 V	Α	3	
• at 125 V	Α	3	
• at 230 V	Α	2	
• at 400 V	Α	1	
• at DC-13			
• at 24 V	Α	1	
• at 110 V	Α	0.22	
• at 125 V	Α	0.22	
• at 220 V	Α	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

• for AWG conductors / for main contacts

2x (1 ... 2.5 mm2), 2x (2.5 ... 6 mm2), 1x 10 mm2

2x (16 ... 12), 2x (14 ... 8)

• for auxiliary contacts

• solid

• finely stranded

• with conductor end processing

• for AWG conductors / for auxiliary contacts

2x (0.5 ... 1.5 mm2), 2x (0.75 ... 2.5 mm2)

2x (0.5 ... 1.5 mm2), 2x (0.75 ... 2.5 mm2)

2x (20 ... 16), 2x (18 ... 14)

Certificates/approvals:

Verification of suitability CE / UL / CSA

• ATEX No

General Product Approval

For use in hazardous locations

Test Certificates

coc



ROSTEST



DEKRA EXAM,

Manufacturer

Shipping Approval







GL







Shipping Approval

other



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)

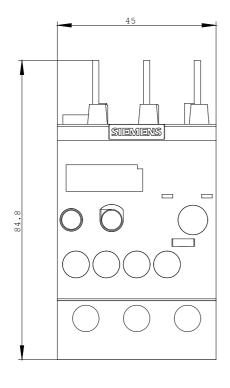
http://www.siemens.com/industrial-controls/mall

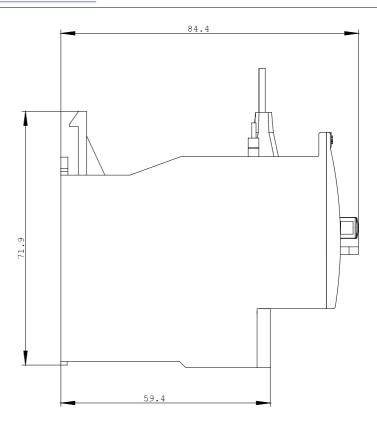
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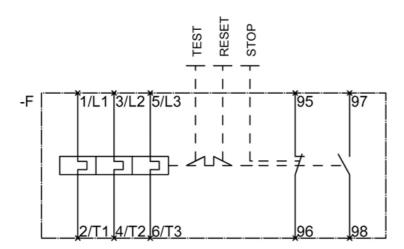
http://www.siemens.com/cax

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2126-1GB0







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