SIEMENS

Product data sheet

3RU2126-4DB1



OVERLOAD RELAY 20...25 A FOR MOTOR PROTECTION SZ S0, 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	6.2	
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	25
Service power / at AC-3		
• at 400 V / rated value	kW	11
• at 500 V / rated value	kW	15
• at 690 V / rated value	kW	22
Adjustable response current		
of the current-dependent overload release	А	20 25
Operating current / of the fuse link / rated value	А	63

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

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		

stranded

- finely stranded
 - with conductor end processing
- for AWG conductors / for main contacts

2x (1.0 ... 2.5 mm2), 2x (2.5 ... 10 mm2)

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

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

for auxiliary contact solid	ots			2x (0.5	1.5 mm2), 2x (0.7	5 2.5 mm2)
• finely stranded				o (o =		
with conductor end processing			2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)			
 for AWG conducto 	ors / for auxiliary cont	acts		2x (20 16), 2x (18 14)		
Certificates/approvals:						
Verification of suitab	ility			CE / UL	_/CSA	
• ATEX				No		
General Product Ap	proval				For use in hazardous locations	Test Certificates
COC	CSA	ROSTEST			DEKRA EXAM, DMT	Manufacturer
Shipping Approval						
ABS	ĴŠ DNV DNV	GL	Lloyd's Register		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)

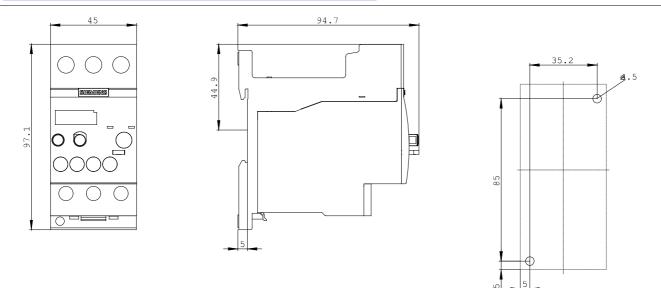
http://www.siemens.com/industrial-controls/mall

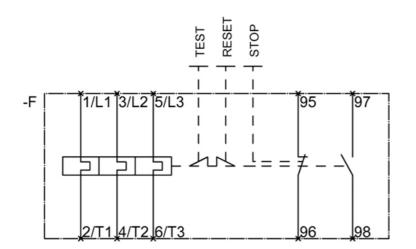
Cax online generator:

http://www.siemens.com/cax



Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2126-4DB1





last change:

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