SIEMENS

Industry Automation and Drive Technologies Service & Support

3RU2116-0JB0 THERM. OVERLOAD RELAY 0.70 - 1.0 A

Technical / CAx data



OVERLOAD RELAY 0.70...1.0 A FOR MOTOR PROTECTION SZ S00, CLASS 10, F. MOUNTING ONTO CONTACTOR 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	n 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 / 11 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		S00
Size of the contactor / can be combined		
company-specific		S00

Main circuit:

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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	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 	Α	0.71
Operating current / of the fuse link / rated value	A	4
· ·		
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 Number of change-over switches / for auxiliary contacts		1 0
Operating current / of the auxiliary contacts		0
• at AC-15		
	А	3
• at 24 V		
• 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	A	0.22
		0.22
• at 125 V	A	
• at 220 V	Α	0.11
Short-circuit:		
Design of the fuse link / for short-circuit protection of the		fuse gG: 10 A
auxiliary switch / required		
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
		6
• sidewards	mm	U
Distance, to be maintained, conductive elements	20. 12.2	0
• forwards	mm	0
backwards	mm	0

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of downwards is dewards Sidewards Sidewards Sidewards Sidewards Sidewards Sidewards Sidewards Sidewards For main current circuit For main current circuit For main current circuit Product function / removable terminal for auxiliary and control circuit Type of the connectable conductor cross-section	upwards	mm	6
Design of the electrical connection • for main current circuit • for auxiliary and control current circuit • for auxiliary and control current of the connectable conductor cross-section • for the connectable conductor cross-section • for the connectable conductor cross-section • for finely stranded • with conductor end processing • for AWG conductors / for main contacts • solid • finely stranded • with conductor end processing • for auxiliary contacts • solid • finely stranded • with conductor for auxiliary contacts • for auxiliary contacts • solid • finely stranded • with conductor for auxiliary contacts • Solid • finely stranded • with conductor for auxiliary contacts • solid • with conductor end processing • with conductor of auxiliary contacts • certificates/Test Report Shipping Approval ***Excriticates** **Type Test Certificates** Certificates** Contact rating designation / for auxiliary contacts / according to UL **IRMS / Russ** **Contact rating designation / for auxiliary contacts / according to SN 31920 **To lauxiliary for proof test interval or service life • with high demand rate / according to SN 31920 Fit of according to ICC 61508 • according to ICC 61508	•	mm	6
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• for main contacts • solid • finely stranded • with conductor end processing • for AWG conductors / for main contacts • solid • finely stranded • with conductor end processing • for auxiliary contacts • solid • finely stranded • with conductor end processing • for AWG conductors / for main contacts • solid • finely stranded • with conductor end processing • for AWG conductors / for auxiliary contacts • with conductor of uprocessing • for AWG conductors / for auxiliary contacts • with conductors / for auxiliary contacts Certificates/approvals: Verification of suitability • ATEX General Product Approval I certificates Special Test Certificates Certificates Certificates Certificates Special Test Certificates Certificates Certificates Shipping Approval I ABS (Americ: DNV / Det Nor: GL / German) I CRSA Tatings: Contact rating designation / for auxiliary contacts / according to UL ROMAN Pegistri Shipping Approval I RMRS / Russ Declaration of Contact rating designation / for auxiliary contacts / according to UL Rollability figures: Mean time to failure (MTTF) / with high demand rate / according to SN 31920 • with high demand rate / according to SN 31920 Filt 50 Ti value / for proof test interval or service life • according to IEC 61508 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75	control circuit	_	
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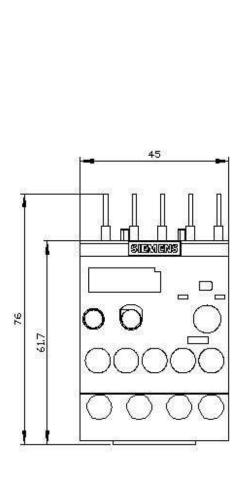
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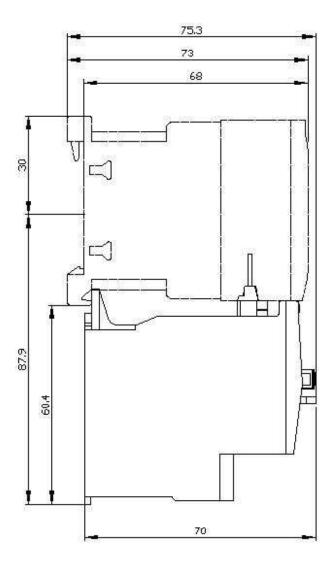
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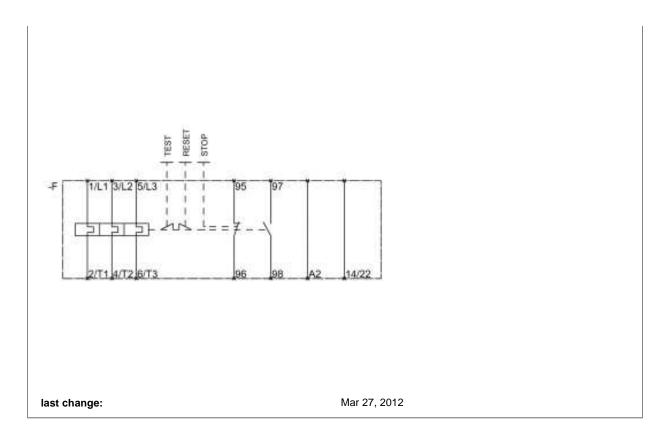
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