SIEMENS

Industry Automation and Drive Technologies Service & Support

3RU2116-1JB0 THERM. OVERLOAD RELAY 7.0 - 10 A

Technical / CAx data

Main circuit:

Technical Data ○ CAx data



OVERLOAD RELAY 7.0...10 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	m	2,000
Ambient temperature		
 during transport 	C	-55+80
 during storage 	${\mathbb C}$	-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	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		S00
Size of the contactor / can be combined		
company-specific		S00

Page 1 of 5 3/30/2012 12:39:24 PM

Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value		, and the second
maximum	V	690
Operating current / at AC-3 / at 400 V		***
• rated value	Α	10
Service power / at AC-3	- '`	
at 400 V / rated value	kW	4
	kW	5.5
at 500 V / rated value		
at 690 V / rated value	kW	7.5
Adjustable response current	^	7 40
of the current-dependent overload release	Α .	710
Operating current / of the fuse link / rated value	Α	35
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	A	_ 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		fuse gG: 10 A
auxiliary switch / required		luse go. 10 A
Installation/mounting/dimensions:		
Built in orientation		vertical
Type of mounting Width	mm	direct mounting
Height	mm mm	45 87
Depth	mm	73
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
backwards	mm	0
upwards	mm	6
•	mm	6
• downwards		
sidewards	mm	6
Distance, to be maintained, to earthed part	200 / 200	0
• 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

Page 2 of 5 3/30/2012 12:39:24 PM

• upwards	mm mm	6
downwardssidewards	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	-	No
Control circuit Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4
		mm²
finely stranded		2v /0 F 4 F mm²\ 2v /0 7F 2 F mm²\
with conductor end processing for AWC conductors (for main contests)		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12
for AWG conductors / for main contacts for auxiliary contacts		28 (20 10), 28 (10 14), 28 12
for auxiliary contactssolid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
finely stranded		2.4 (0.0 1.0 11111), 2.4 (0.70 2.0 11111)
intelly strandedwith 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:		05 / 111 / 004
Verification of suitability ● ATEX		CE / UL / CSA Yes
General Product Approval		For use in hazardous locations
CCC CSA GOST	× UL	ATEX-EC-Typi
Test Certificates		
Special Test Type Test Certificate Certificates/Test		
Report		
Shipping Approval		
ABS (America NOV / Det Nor: GL / Germani	x LRS/	Lloyds R PRS / Polski R RINA / Registro
Shipping other Approval		
RMRS / Russ Conformity		
Comornity		
UL/CSA ratings:		
Contact rating designation / for auxiliary contacts /		B600 / R300
according to UL		
Reliability figures:		
Mean time to failure (MTTF) / with high demand rate	a	2,280
Proportion of dangerous failures with low demand rate / according to SN	%	50
31920	70	
 with high demand rate / according to SN 	%	50
31920		
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	50
T1 value / for proof test interval or service life	а	20
according to IEC 61508 Protection against electrical shock	а	finger-safe
i rotection against electrical shock		migor said

Page 3 of 5 3/30/2012 12:39:24 PM

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

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

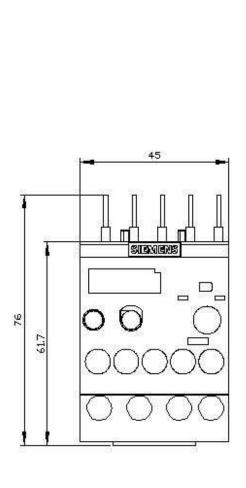
Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

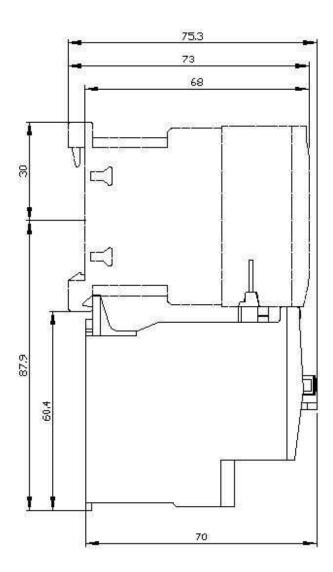
Cax online generator:

http://www.siemens.com/cax

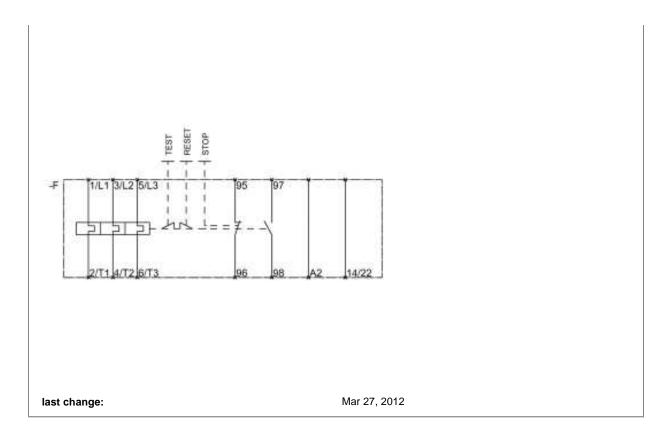
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RU2116-1JB0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2116-1JB0





Page 4 of 5 3/30/2012 12:39:24 PM



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Page 5 of 5 3/30/2012 12:39:24 PM