SIEMENS

Industry Automation and Drive Technologies Service & Support

3RU1116-0HB0 OVERLOAD RELAY, 0.55...0.8 A,

Technical / CAx data

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As of 2012-03-10

OVERLOAD RELAY, 0.55...0.8 A, 1NO+1NC, SIZE S00, CLASS 10, FOR CONTACTOR MOUNTING

General technical details:		
product brand name		SIRIUS
product designation		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 operating	℃	-20…+70
• during storage	℃	-55…+80
• during transport	℃	-55…+80
Relative humidity / during operating phase / maximum	%	100
Resistance against shock		8g / 10 ms
Impulse voltage resistance / rated value	kV	6
Active power loss / total / typical	W	6.6
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		F
• according to DIN EN 61346-2		F
Operating current / of the fuse link / rated value	A	4
Trip class		CLASS 10
Type of assignement		2
type of protection		DMT 98 ATEX G 001
Size of overload relay		S00
Size of the contactor / can be combined / company-specific		S00

Protection against electrical shock		finger-safe
Main circuit:		
Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value		
• maximum	V	690
Service power / at AC-3		
• at 400 V	kW	0.18
Adjustable response current		
• of the current-dependent overload release	A	0.55…0.8
Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		acceptability for PLC control (17 V, 5 mA)
Number of NC contacts		1
Number of NO contacts		1
Number of change-over switches		0
Operating current / of the auxiliary contacts / at AC-15		
• at 24 V	A	3
• at 110 V	A	3
• at 120 V	A	3
• at 125 V	A	3
• at 230 V	A	2
• at 400 V	A	1
Operating current / of the auxiliary contacts / at DC-13		
• at 24 V	A	1
• at 110 V	A	0.22
• at 125 V	A	0.22
• at 220 V	A	0.11
Short-circuit:		
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 6 A, quick: 10 A
Installation/mounting/dimensions:		
Built in orientation		with vertical mounting surface +/-135°rotatable, with vertical mounting surface +/- 45°tiltable to the front and back
Type of mounting		direct mounting
Height	mm	87
Width	mm	45
Depth	mm	78
Distance, to be maintained, to the ranks assembly		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	0
Distance, to be maintained, to earthed part		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	6
Distance, to be maintained, conductive elements		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0

• sidewards	mm	6

Connection type:

Product function		
• removable terminal for auxiliary and control circuit		No
Design of the electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts		
• finely stranded		
• with conductor end processing		2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
• 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 conductors		
• for main contacts		2x (20 ... 16), 2x (18 ... 14), 2x 12
• for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14)
Conductor cross section that can be connected		
• for main contacts		
• solid	mm²	0.5…4
• stranded wire		
• with conductor end processing	mm²	0.5…2.5
• for auxiliary contact		
• solid	mm²	0.5…2.5
• stranded wire		
• with conductor end processing	mm²	0.5…2.5
AWG number / as coded connectable conductor cross-section		
• for main contacts / minimum		20
• for auxiliary contact		20…14

Certificates/approvals:

Verification of suitability	CSA / UL / CC / GL / LRS / BV / DNV / RMRS / RINA / PRS / ABS
Varification of suitability / ATEX	Yes

General Product Approval

☒ CQC	☒ CSA	ROSTEST

Shipping Approval

☒ ABS (American Bureau of Shipping)	☒ BV (Bureau Veritas)	☒ DNV (Det Norske Veritas)

Shipping Approval		**other**
☒ RINA (Registro Italiano Navale)	☒ RMRS (Russian Maritime Register)	Manufacturer

Further information:

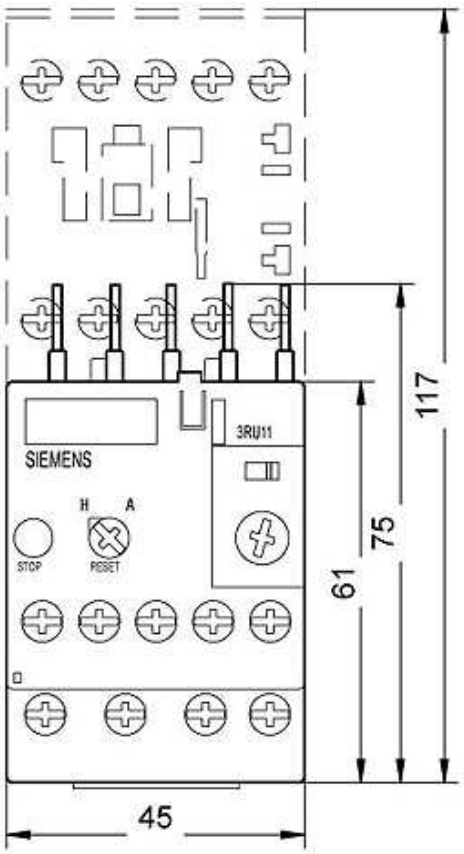
Information- and Downloadcenter (Catalogs, Brochures,...)
http://www.siemens.com/industrial-controls/catalogs

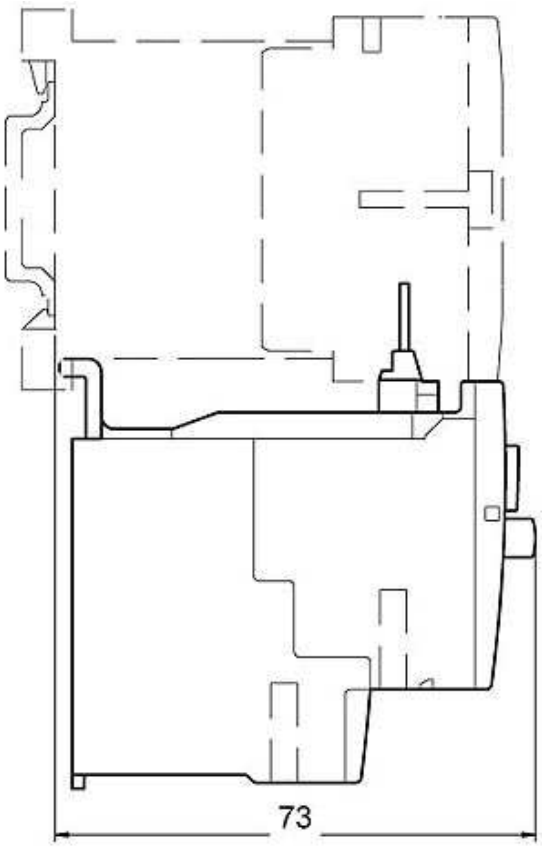
Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

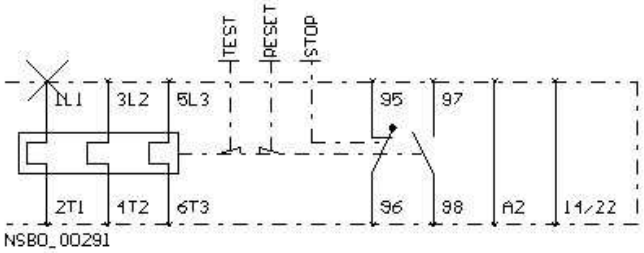
CAx-Online-Generator
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RU1116-0HB0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU1116-0HB0







last change: Mar 5, 2012