

3RU1116-1GB0 OVERLOAD RELAY, 4.5...6.3 A,

Technical / CAx data

☒ Technical Data ☐ CAx data



OVERLOAD RELAY, 4.5...6.3 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	°C	-20...+70
• during storage	°C	-55...+80
• during transport	°C	-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	20
Trip class		CLASS 10
Type of assignment		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	2.2
Adjustable response current		
• of the current-dependent overload release	A	4.5...6.3

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
• sideways	mm	0
Distance, to be maintained, to earthed part		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sideways	mm	6
Distance, to be maintained, conductive elements		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sideways	mm	6

Connection type:

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

For use in hazardous locations

☒ CCC	☒ CSA	☒ GOST	☒ UL	☒ ATEX-EC-Type
---	---	--	--	--

Test Certificates

Special Test Certificate	Type Test Certificates/Test Report
--------------------------	------------------------------------

Shipping Approval

☒ ABS (America)	☒ BV / Bureau Veritas	☒ DNV / Det Norske Veritas	☒ GL / Germanischer Lloyd	☒ LRS / Lloyd's Register	☒ PRS / Polski Register
---	---	--	---	--	---

Shipping Approval

other

☒ RINA / Registro Italiano Navale	☒ RMRS / Russian Maritime Register of Shipping	Confirmation	Declaration of Conformity	other	☒ Environmental
---	--	--------------	---------------------------	-------	---

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

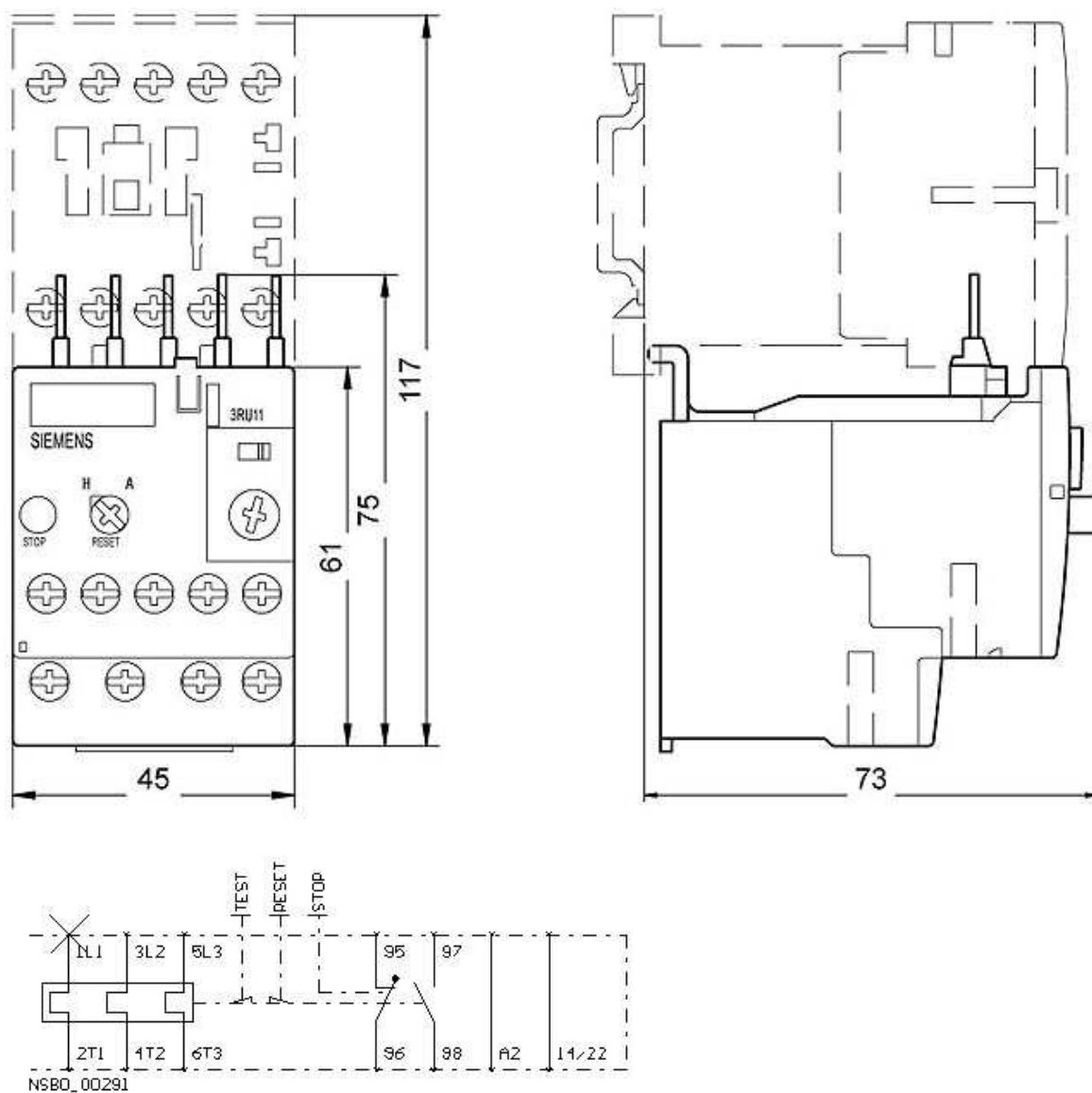
<http://www.siemens.com/cax>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RU1116-1GB0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU1116-1GB0



last change:

Mar 27, 2012