SIEMENS

Industry Automation and Drive Technologies Service & Support

3RU1116-1BB0 OVERLOAD RELAY, 1.4...2 A,

Technical / CAx data

Technical Data C CAx data



OVERLOAD RELAY, 1.4...2 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	${\mathcal C}$	-20+70
during storage	C	-55+80
 during transport 	${\mathbb C}$	-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	Α	6
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		\$00
Protection against electrical shock		finger-safe

Main circuit:

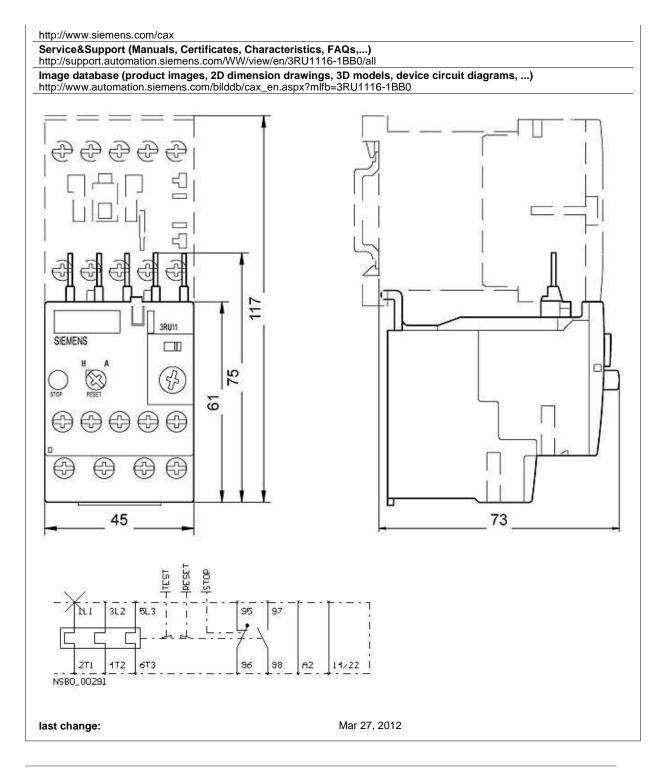
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Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value		
maximum	V	690
Service power / at AC-3		
at 400 V	kW	0.75
Adjustable response current		
 of the current-dependent overload release 	Α	1.42
Auxiliary circuit:		
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	Α	3
	A	3
• at 110 V		
• at 120 V	A	3
• at 125 V	A	3
• at 230 V	A	2
• at 400 V	Α	1
Operating current / of the auxiliary contacts / at DC-13 at 24 V	А	1
• at 110 V	A	0.22
	A	0.22
• at 125 V		
• at 220 V	Α	0.11
Short-circuit:		
Design of the fuse link / for short-circuit protection of the		fuse gL/gG: 6 A, quick: 10 A
auxiliary switch / required		
Installation/mounting/dimensions:		
Installation/mounting/dimensions: Built in orientation		with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back
Built in orientation		
	mm	with vertical mounting surface +/- 45° tiltable to the front and back
Built in orientation Type of mounting	mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45
Built in orientation Type of mounting Height Width Depth	-	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly	mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards	mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards	mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78
Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards	mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards	mm mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • forwards • backwards • sidewards	mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • forwards • backwards • sidewards Distance, to be maintained, to earthed part	mm mm mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards • backwards • sidewards Distance, to be maintained, to earthed part • upwards	mm mm mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards • sidewards Distance, to be maintained, to earthed part • upwards • downwards	mm mm mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards • backwards • sidewards Distance, to be maintained, to earthed part • upwards • downwards • forwards • forwards	mm mm mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards • sidewards Distance, to be maintained, to earthed part • upwards • downwards • forwards • backwards • backwards • backwards	mm mm mm mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards • sidewards Distance, to be maintained, to earthed part • upwards • downwards • forwards • downwards • downwards • downwards • forwards • sidewards • sidewards	mm mm mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards • sidewards Distance, to be maintained, to earthed part • upwards • downwards • downwards • downwards • downwards • sidewards Distance, to be maintained, conductive elements	mm mm mm mm mm mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0 0 0 0 6
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards • sidewards Distance, to be maintained, to earthed part • upwards • downwards • forwards • downwards • sidewards • sidewards • forwards • backwards • sidewards Distance, to be maintained, conductive elements • upwards	mm mm mm mm mm mm mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards • sidewards Distance, to be maintained, to earthed part • upwards • downwards • forwards • downwards • sidewards Distance, to be maintained, conductive elements • upwards • sidewards Distance, to be maintained, conductive elements • upwards • downwards	mm mm mm mm mm mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards • sidewards Distance, to be maintained, to earthed part • upwards • downwards • forwards • downwards • sidewards Distance, to be maintained, conductive elements • upwards • sidewards Distance, to be maintained, conductive elements • upwards • downwards • forwards	mm mm mm mm mm mm mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards • sidewards Distance, to be maintained, to earthed part • upwards • downwards • forwards • downwards • sidewards Distance, to be maintained, conductive elements • upwards • sidewards Distance, to be maintained, conductive elements • upwards • downwards • downwards • downwards • downwards • downwards • downwards	mm mm mm mm mm mm mm mm mm mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards • sidewards Distance, to be maintained, to earthed part • upwards • downwards • forwards • downwards • sidewards Distance, to be maintained, conductive elements • upwards • sidewards Distance, to be maintained, conductive elements • upwards • downwards • forwards	mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Built in orientation Type of mounting Height Width Depth Distance, to be maintained, to the ranks assembly • upwards • downwards • forwards • backwards • sidewards Distance, to be maintained, to earthed part • upwards • downwards • forwards • downwards • sidewards Distance, to be maintained, conductive elements • upwards • sidewards Distance, to be maintained, conductive elements • upwards • downwards • downwards • downwards • downwards • downwards • downwards	mm	with vertical mounting surface +/- 45° tiltable to the front and back direct mounting 87 45 78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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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					
solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4			
		mm² max.			
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	0.54			
stranded wire					
 with conductor end processing 	mm²	0.52.5			
for auxiliary contact					
solid	mm²	0.52.5			
stranded wire	******	0.02.0			
	mm²	0.52.5			
with conductor end processing	- 111111-	0.52.5			
AWG number / as coded connectable conductor cross- section					
 for main contacts / minimum 		20			
 for auxiliary contact 		2014			
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	x ATEX-EC-Typ₁			
Test Certificates					
Special Test Type Test					
Certificate Certificates/Test					
Report					
Shipping Approval					
ABS (America BV / Bureau Vi DNV / Det No	x GL/G	Sermanis X LRS / Lloyds R PRS / Polski R			
Shipping Approval other					
List DINIA / Degict List DMDC / Duggic	Declaration of Conformity	of 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					

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