

Product data sheet

3RU1116-1AB0



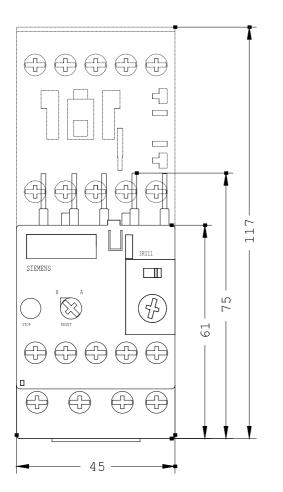
OVERLOAD RELAY, 1.1...1.6 A, 1NO+1NC, SIZE S00, CLASS 10, FOR CONTACTOR MOUNTING

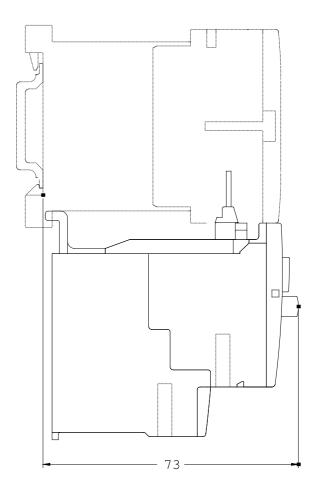
General technical details:		
Product brand name		SIRIUS
Product designation		thermal overload relay
Protection class IP / frontal/front side		IP20
Insulation voltage / with degree of pollution 3 / rated value	V	690
Altitude of installation site / at a height over sea level / maximum	m	2,000
Ambient temperature		
during the operating phase	°C	-20 70
during storage	°C	-55 80
during transport	°C	-55 80
Relative humidity / during the operating phase / maximum	%	100
Resistance against shock		8g / 10 ms
Impulse voltage resistance / rated value	kV	6
Real loss power / 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	А	6
Trip class		CLASS 10

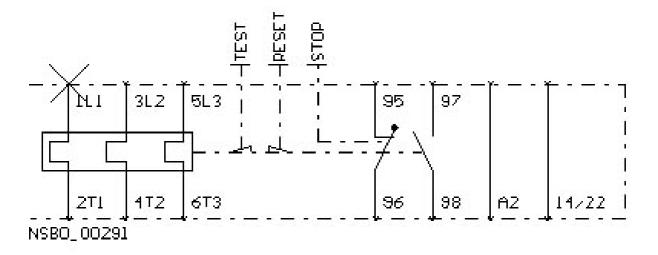
Type of protection-Size of overload relayS00Size of the contactor / can be combined / company-specificS00Protection against electrical shockImpersafeMumber of poles / for main current circuit3Coperating voltage / at 3 AC / rated valueImpersafe• maximumV990Service power / at AC-3Impersafe• at 400 VKW055Adjustable response currentKW• of the current-dependent overload releaseA• of the current-dependent overload release1Auxiliary circuitImpersafeConsta treliability / of the auxiliary contacts1Number of NO contacts1Number of the current-dependent overload release3Operating current / of the auxiliary contacts / at AC-151• at 24VAA• at 120 VA• at 24 VA• at 24 VA• at 100 VA• at 24 VA• at 100 VA• at 24 VA• at 24 VA• at 24 VA• at 100 VA• at 100 VA• at 24 VA• at 24 VA• at 24 VA• at 100 VA• at 24 VA	Type of assignement		2
Size of overload relay S00 Size of the contactor / can be combined / company-specific S00 Protection against electrical shock Finger-safe Mumber of poles / for main current circuit 3 Operating voltage / at 3 AC / rated value - • maximum V 680 Service power / at AC-3 - • at 400 V kW 0.55 Adjustable response current - • of the current-dependent overload release A 1.1 1.6 Number of NC contacts 1 Number of NC contacts Number of Ac contacts 1 1 Number of NC contacts 1 1 Number of NC contacts 1 1 Number of Ac contacts 1 2			
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Protection against electrical shock Imger-safe Main circuit: 3 Number of poles / for main current circuit 3 Operating voltage / at 3 AC / rated value - • maximum V 690 Service power / at AC-3 - • at 400 V KW 0.55 Adjustable response current - - • of the current-dependent overload release A 1.1 1.6 Auxiliary circuit: - - Contact reliability / of the auxiliary contacts - acceptability for PLC control (17 V, 5 mA) Number of NC contacts - 1 - Number of NC contacts - 0 - • at 24 V A 3 - • at 10 V A 3 - • at 24 V A 3 - • at 24 V A 3 - • at 400 V A 1 - • at 20 V A 3 - • at 400 V A 1 - <th></th> <th>_</th> <th></th>		_	
Main circuit: Number of poles / for main current circuit 3 Operating voltage / at 3 AC / rated value v 690 • maximum V 690 Service power / at AC-3 v 600 • at 400 V KW 0.55 Adjustable response current v 6 • of the current-dependent overload release A 1.1 1.6 Auxiliary circuit: acceptability for PLC control (17 V, 5 mA) Number of NC contacts 1 Number of NC contacts 1 Number of NC contacts 1 • at 24 V A 3 • at 10 V A 3 • at 20 V A 0.22		_	
Number of poles / for main current circuit 3 Operating voltage / at 3 AC / rated value // // · maximum V 690 Service power / at AC-3 // // · at 400 V KW 0.55 Adjustable response current // // · of the current-dependent overload release // 1.1 1.6 Axiillary circuit: // acceptability for PLC control (17 V, 5 mA) Number of NC contacts 1 // Number of change-over switches 0 0 Operating current / of the auxillary contacts / at AC-15 /// //// · at 100 V AA 3 //// · at 24 V AA 3 //// · at 100 V AA 3 //// · at 20 V AA 3 //// · at 20 V AA 1 ///// · at 20 V AA 1 //// · at 215 V AA 0.22 ///// · at 22 V AA 0.22			แม่ยา-รอเอ
Operating voltage / at 3 AC / rated value V 690 • maximum V 690 Service power / at AC-3 V 690 • at 400 V KW 0.55 Adjustable response current V 8 • of the current-dependent overload release A 1.1 1.6 Avxillary circuit: Contact reliability / of the auxiliary contacts I Number of NC contacts 1 1 Number of NC contacts 0 0 Operating current / of the auxiliary contacts / at AC-15 0 0 Operating current / of the auxiliary contacts / at AC-15 0 0 • at 100 V AA 3 3 • at 102 V AA 3 3 • at 20 V AA 3 3 • at 20 V AA 1 3	Main circuit:		
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Service power / at AC-3 Image: main and the service power / at AC-3 Image: main and the service power / at AC-3 • at 400 V KW 0.55 Adjustable response current A 1.1 1.6 Auxillary circuit: acceptability for PLC control (17 V, 5 mA) Number of NC contacts 1 Number of NC contacts 1 Number of Change-over switches 0 Operating current / of the auxiliary contacts / at AC-15 Image: main and the auxiliary contacts / at AC-15 • at 24 V A 3 • at 10 V A 3 • at 120 V A 3 • at 24 V A 3 • at 20 V A 1 • at 20 V A <th>Operating voltage / at 3 AC / rated value</th> <th></th> <th></th>	Operating voltage / at 3 AC / rated value		
• at 400 VKW0.55Adjustable response current • of the current-dependent overload releaseA1• of the current-dependent overload releaseA1.1 1.6Contact reliability / of the auxiliary contactsacceptability for PLC control (17 V, 5 mA)Number of NC contacts1Number of NC contacts0Operating current / of the auxiliary contacts / at AC-150• at 24 VA3• at 10 VA3• at 25 VA3• at 20 VA2• at 20 VA2• at 20 VA2• at 20 VA1• at 20 VA3• at 20 VA1• at 20 VA1• at 20 VA1• at 20 VA2• at 20 VA1• at 20 VA0.22• at 20 VA0.22• at 20 VA0.11• at 20 VA <td< th=""><th>• maximum</th><th>V</th><th>690</th></td<>	• maximum	V	690
Adjustable response current A I <thi< th=""><th>Service power / at AC-3</th><th></th><th></th></thi<>	Service power / at AC-3		
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Contact reliability / of the auxiliary contactsacceptability for PLC control (17 V, 5 mA)Number of NC contacts1Number of NO contacts0Operating current / of the auxiliary contacts / at AC-150• at 24 VA3• at 10 VA3• at 120 VA3• at 120 VA3• at 120 VA3• at 24 VA3• at 120 VA3• at 120 VA3• at 24 VA3• at 120 VA3• at 24 VA1• at 24 VA3• at 25 VA3• at 24 VA1• at 24 VA2• at 24 VA1• at 24 VA0.22• at 24 VA0.22• at 24 VA0.11• at 25 VA0.11• at 26 VA0.11• at 27 VA0.11• at 28 VA0.11• at 29 VA0.11• at 29 VA0.11• at 20 VA0.11• at	 of the current-dependent overload release 	А	1.1 1.6
Contact reliability / of the auxiliary contactsacceptability for PLC control (17 V, 5 mA)Number of NC contacts1Number of NO contacts0Operating current / of the auxiliary contacts / at AC-150• at 24 VA3• at 10 VA3• at 120 VA3• at 120 VA3• at 230 VA3• at 400 VA2• at 24 VA1• at 230 VA2• at 24 VA3• at 25 VA3• at 24 VA1• at 24 VA3• at 25 VA3• at 20 VA2• at 20 VA1Operating current / of the auxiliary contacts / at DC-13-• at 24 VA1• at 24 VA0.22• at 24 VA0.22• at 25 VA0.11• at 26 VA0.11• at 27 VA0.11• at 28 VA0.11• at 29 VA0.11• at 29 VA0.22• at 29 VA0.24• at 29 VA0.24• at 20 V<	Auxiliary circuit:		
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Number of NO contacts1Number of change-over switches0Operating current / of the auxiliary contacts / at AC-15-• at 24 VA3• at 10 VA3• at 120 VA3• at 125 VA3• at 230 VA2• at 400 VA1Operating current / of the auxiliary contacts / at DC-13-• at 22 VA1• at 22 VA1• at 22 VA0.22• at 22 VA0.22• at 220 VA0.11Stort-circuitDesign of the fuse link / for short-circuit protection of the auxiliary switch / requiredWith vertical mounting sufface +/-135° rotatable, with vertical mounting sufface +/-45° tiltable to the front and back			
Number of change-over switches0Operating current / of the auxiliary contacts / at AC-15I• at 24 VA3• at 110 VA3• at 120 VA3• at 125 VA3• at 230 VA2• at 400 VA1Operating current / of the auxiliary contacts / at DC-13I• at 220 VA1• at 220 VA0.22• at 220 VA0.22• at 220 VA0.11Short-circuitDesign of the fuse link / for short-circuit protection of the auxilary switch / requiredInstallation/mounting/dimensions:built in orientationbuilt in orientationwith vertical mounting surface +/- 45° tiltable to the front and back			
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• at 400 VA1Operating current / of the auxiliary contacts / at DC-13-• at 24 VA1• at 10 VA0.22• at 125 VA0.22• at 220 VA0.11Short-circuitDesign of the fuse link / for short-circuit protection of the auxiliary switch / requiredInstallation/mounting/dimensions:Listel colspan="2">with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-45° tiltable to the front and back			
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• at 125 V • at 220 VA 0.110.22 0.11Short-circuit:VVDesign of the fuse link / for short-circuit protection of the auxiliary switch / requiredIsse gL/gG: 6 A, quick: 10 AInstallation/mounting/dimensions:Vbuilt in orientationVith vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back			
• at 220 VA0.11Short-circuit:Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredImage: Short-circuit protection of the switch / requiredInstallation/mounting/dimensions:Image: Short-circuit protection of the switch / requiredbuilt in orientationImage: Short-circuit protection of the switch / requiredImage: Short-circuit protection of the <th></th> <th></th> <th></th>			
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: Installation/mounting surface +/- 135° rotatable, with vertical mounting surface +/- 135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back			
auxiliary switch / required Installation/mounting/dimensions: built in orientation built in o	Short-circuit:		
built in orientation with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back	Design of the fuse link / for short-circuit protection of the		fuse gL/gG: 6 A, quick: 10 A
vertical mounting surface +/- 45° tiltable to the front and back	Installation/mounting/dimensions:		
Type of fixing/fixation direct mounting	built in orientation		vertical mounting surface +/- 45° tiltable to the front
	Type of fixing/fixation		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		
• unifilar		2 x (0.5 1.5 mm2), 2 x (0.75 2.5 mm2), max. 2 x (1 4 mm2)
stranded wire		2 x (0.5 1.5 mm2), 2 x (0.75 2.5 mm2), max. 2 x (1 4 mm2)
• stranded wire		
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 wire end processing		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
without conductor final cutting		2x (0,5 1,5 mm2), 2x (0,75 2,5 mm2)

at AWG-conductors				
• for main contacts		2x (18 14)		
for auxiliary contacts		2x (18 14)		
Conductor cross section that can be connected	-			
for main contacts				
• unifilar	mm²	0.5 4		
stranded wire	mm²	0.5 4		
stranded wire				
 with conductor end processing 	mm²	0.5 2.5		
for auxiliary contact				
• unifilar	mm²	0.5 2.5		
stranded wire				
with conductor end processing	mm²	0.5 2.5		
without conductor final cutting	mm²	0.5 2.5		
AWG number / as coded connectable conductor cross-section	-			
for main contacts / minimum		18		
for auxiliary contact		18 14		
Certificates/approvals:				
verification of suitability		CSA / UL / CC / GL / LRS / BV / DNV / RMRS / RINA / PRS / ABS		
varification of suitability / ATEX	-	Yes		
Further information:				
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs				
Global Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall				
Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.automation.siemens.com/WW/view/en/3RU1116-1AB0/all				
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU1116-1AB0				







last change:

Jun 14, 2010