



OVERLOAD RELAY, 4.5...6.3 A, 1NO+1NC,  
SIZE S00, CLASS 10,  
FOR CONTACTOR MOUNTING

## General technical details:

<b>product brand name</b>		SIRIUS
<b>product designation</b>		thermal overload relay
<b>Protection class IP / on the front</b>		IP20
<b>Insulation voltage / with degree of pollution 3 / rated value</b>	V	690
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Ambient temperature</b>		
• during the operating phase	°C	-20 ... 70
• during storage	°C	-55 ... 80
• during transport	°C	-55 ... 80
<b>Relative humidity / during operating phase / maximum</b>	%	100
<b>Resistance against shock</b>		8g / 10 ms
<b>Impulse voltage resistance / rated value</b>	kV	6
<b>Active power loss / total / typical</b>	W	6.6
<b>Item designation</b>		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		F
• according to DIN EN 61346-2		F
<b>Operating current / of the fuse link / rated value</b>	A	20
<b>Trip class</b>		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
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#### 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

<b>Height</b>	mm	87
<b>Width</b>	mm	45
<b>Depth</b>	mm	78
<b>Distance, to be maintained, to the ranks assembly</b>		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sideways	mm	0
<b>Distance, to be maintained, to earthed part</b>		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sideways	mm	6
<b>Distance, to be maintained, conductive elements</b>		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sideways	mm	6

#### Connection type:

<b>Product function</b>		
• removable terminal for auxiliary and control circuit		No
<b>Design of the electrical connection</b>		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
<b>Type of the connectable conductor cross-section</b>		
• for main contacts		
• solid		2 x (0.5 ... 1.5 mm <sup>2</sup> ), 2 x (0.75 ... 2.5 mm <sup>2</sup> ), max. 2 x (1 ... 4 mm <sup>2</sup> )
• stranded		2 x (0.5 ... 1.5 mm <sup>2</sup> ), 2 x (0.75 ... 2.5 mm <sup>2</sup> ), max. 2 x (1 ... 4 mm <sup>2</sup> )
• finely stranded		
• with conductor end processing		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• for auxiliary contacts		
• solid		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• finely stranded		
• with conductor end processing		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• without conductor final cutting		2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )

<ul style="list-style-type: none"> <li>• for AWG conductors</li> <li>• for main contacts</li> <li>• for auxiliary contacts</li> </ul>		2x (18 ... 14)	
<b>Conductor cross section that can be connected</b> <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> <li>• stranded wire <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul> </li> <li>• for auxiliary contact <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded wire <ul style="list-style-type: none"> <li>• with conductor end processing</li> <li>• without conductor final cutting</li> </ul> </li> </ul> </li> </ul>	mm <sup>2</sup>	0.5 ... 4	
	mm <sup>2</sup>	0.5 ... 4	
	mm <sup>2</sup>	0.5 ... 2.5	
	mm <sup>2</sup>	0.5 ... 2.5	
	mm <sup>2</sup>	0.5 ... 2.5	
	mm <sup>2</sup>	0.5 ... 2.5	
<b>AWG number / as coded connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• for main contacts / minimum</li> <li>• for auxiliary contact</li> </ul>		18	
		18 ... 14	

#### Certificates/approvals:

<b>Verification of suitability</b>	CSA / UL / CC / GL / LRS / BV / DNV / RMRS / RINA / PRS / ABS
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<b>Varification of suitability / ATEX</b>	Yes
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General Product Approval	For use in hazardous locations	Test Certificates
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[CQC](#)



[ROSTEST](#)



[DEKRA EXAM, DMT](#)

[Manufacturer](#)

#### Shipping Approval

[ABS](#)



[PRS](#)

#### Shipping Approval

other



[Manufacturer](#)

#### Further information:

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

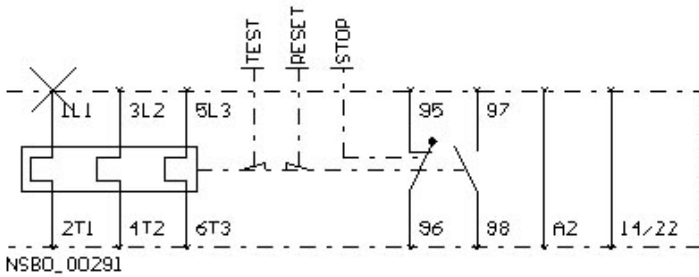
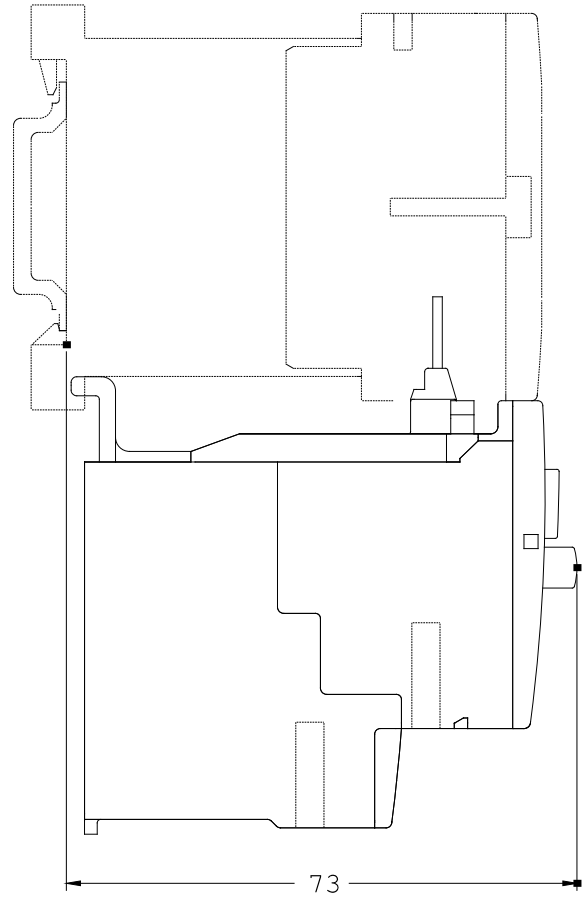
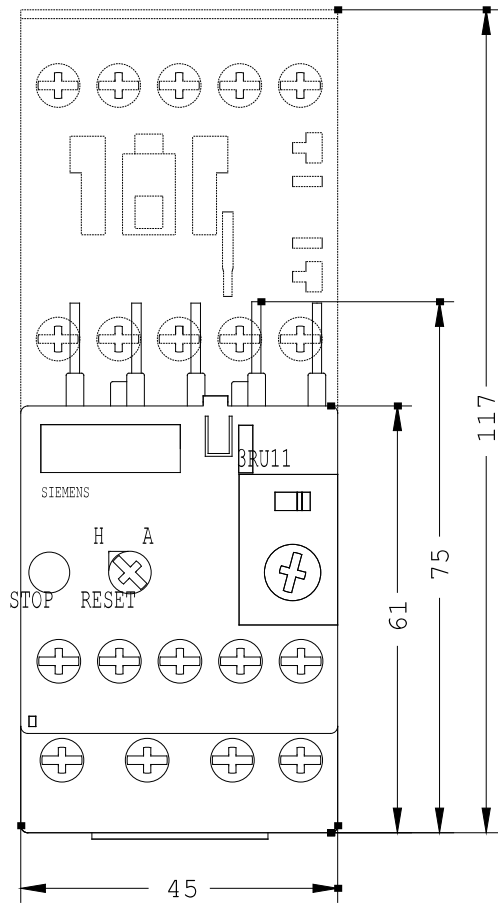
<http://www.siemens.com/industrial-controls/catalogs>

##### Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

##### CAX-Online-Generator

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



NS80\_00291

last change:

May 16, 2011