



OVERLOAD RELAY, 9...12 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	35
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	5.5
Adjustable response current		
• of the current-dependent overload release	A	9 ... 12

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

<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
• sidewards	mm	0
<b>Distance, to be maintained, to earthed part</b>		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	6
<b>Distance, to be maintained, conductive elements</b>		
• upwards	mm	0
• downwards	mm	0
• forwards	mm	0
• backwards	mm	0
• sidewards	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		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> max.
• finely stranded		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• with conductor end processing		
• for auxiliary contacts		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• solid		
• finely stranded		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• with conductor end processing		
• for AWG conductors		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• for main contacts		2x (20 ... 16), 2x (18 ... 14), 2x 12

• for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14)
<b>Conductor cross section that can be connected</b>		
• for main contacts	mm <sup>2</sup>	0.5 ... 4
• solid		
• stranded wire		
• with conductor end processing	mm <sup>2</sup>	0.5 ... 2.5
• for auxiliary contact	mm <sup>2</sup>	0.5 ... 2.5
• solid		
• stranded wire		
• with conductor end processing	mm <sup>2</sup>	0.5 ... 2.5
<b>AWG number / as coded connectable conductor cross-section</b>		
• for main contacts / minimum		20
• for auxiliary contact		20 ... 14

### Certificates/approvals:

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

#### General Product Approval

#### For use in hazardous locations



CCC



CSA



GOST



UL



ATEX

### Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

### Shipping Approval



ABS



BUREAU VERITAS



DNV



GL



LRS



PRS

### Shipping Approval

other



RINA



RMRS

[Confirmation](#)

[Declaration of Conformity](#)

other



UL

### Further information:

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

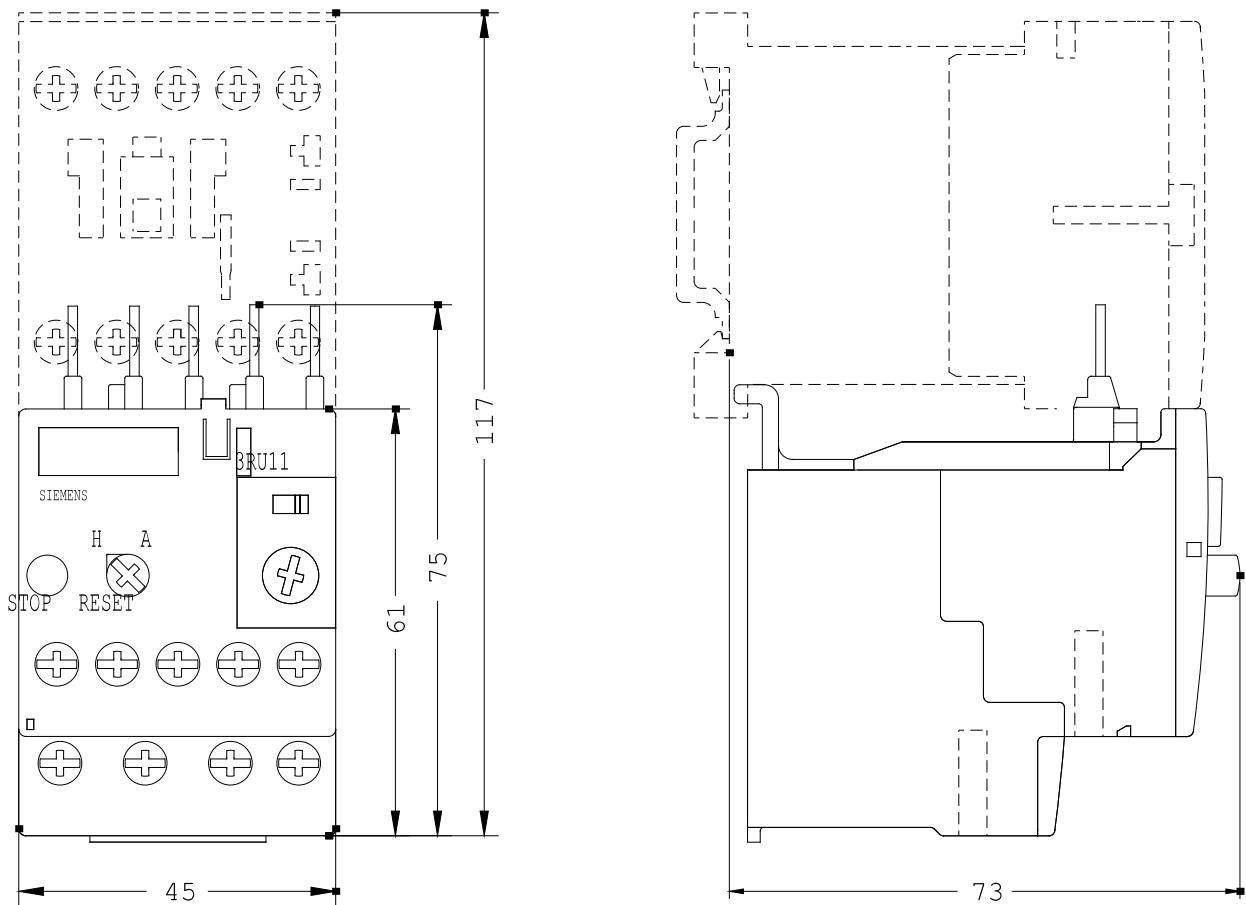
<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

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

**CAx-Online-Generator**

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last change:

Mar 27, 2012