

**3RU1116-1JB0 OVERLOAD RELAY, 7...10 A,**

Technical / CAx data

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OVERLOAD RELAY, 7...10 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:**

<b>Number of poles / for main current circuit</b>		3
<b>Operating voltage / at AC-3 / rated value</b>		
• maximum	V	690
<b>Service power / at AC-3</b>		
• at 400 V	kW	4
<b>Adjustable response current</b>		
• of the current-dependent overload release	A	7...10

**Auxiliary circuit:**

<b>Contact reliability / of the auxiliary contacts</b>		acceptability for PLC control (17 V, 5 mA)
<b>Number of NC contacts</b>		1
<b>Number of NO contacts</b>		1
<b>Number of change-over switches</b>		0
<b>Operating current / of the auxiliary contacts / at AC-15</b>		
• 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
<b>Operating current / of the auxiliary contacts / at DC-13</b>		
• 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:**

<b>Design of the fuse link / for short-circuit protection of the auxiliary switch / required</b>		fuse gL/gG: 6 A, quick: 10 A
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**Installation/mounting/dimensions:**

<b>Built in orientation</b>		with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45°tiltable to the front and back
<b>Type of mounting</b>		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>		No
<ul style="list-style-type: none"> <li>removable terminal for auxiliary and control circuit</li> </ul>		
<b>Design of the electrical connection</b>		screw-type terminals
<ul style="list-style-type: none"> <li>for main current circuit</li> <li>for auxiliary and control current circuit</li> </ul>		screw-type terminals
<b>Type of the connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>for main contacts</li> <li>solid</li> </ul>		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.
<ul style="list-style-type: none"> <li>finely stranded</li> <li>with conductor end processing</li> </ul>		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 auxiliary contacts</li> <li>solid</li> </ul>		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>finely stranded</li> <li>with conductor end processing</li> </ul>		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 (20 ... 16), 2x (18 ... 14), 2x 12 2x (20 ... 16), 2x (18 ... 14)
<b>Conductor cross section that can be connected</b>		
<ul style="list-style-type: none"> <li>for main contacts</li> <li>solid</li> </ul>	mm <sup>2</sup>	0.5...4
<ul style="list-style-type: none"> <li>stranded wire</li> <li>with conductor end processing</li> </ul>	mm <sup>2</sup>	0.5...2.5
<ul style="list-style-type: none"> <li>for auxiliary contact</li> <li>solid</li> </ul>	mm <sup>2</sup>	0.5...2.5
<ul style="list-style-type: none"> <li>stranded wire</li> <li>with conductor end processing</li> </ul>	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>		20 20...14

**Certificates/approvals:**

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

General Product Approval	For use in hazardous locations	Test Certificates
<input checked="" type="checkbox"/> CCC <input checked="" type="checkbox"/> GOST <input checked="" type="checkbox"/> UL	<input checked="" type="checkbox"/> ATEX-EC-Type	Special Test Certificate Type Test Certificates/Test Report

Shipping Approval					
<input checked="" type="checkbox"/> ABS (America)	<input checked="" type="checkbox"/> BV / Bureau Veritas	<input checked="" type="checkbox"/> DNV / Det Norske Veritas	<input checked="" type="checkbox"/> GL / Germanischer Lloyd	<input checked="" type="checkbox"/> LRS / Lloyds Register	<input checked="" type="checkbox"/> PRS / Polski Register

Shipping Approval other					
<input checked="" type="checkbox"/> RINA / Registro Italiano Navale	<input checked="" type="checkbox"/> RMRS / Russian Maritime Register of Shipping	Confirmation	Declaration of Conformity	other	<input checked="" type="checkbox"/> 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**

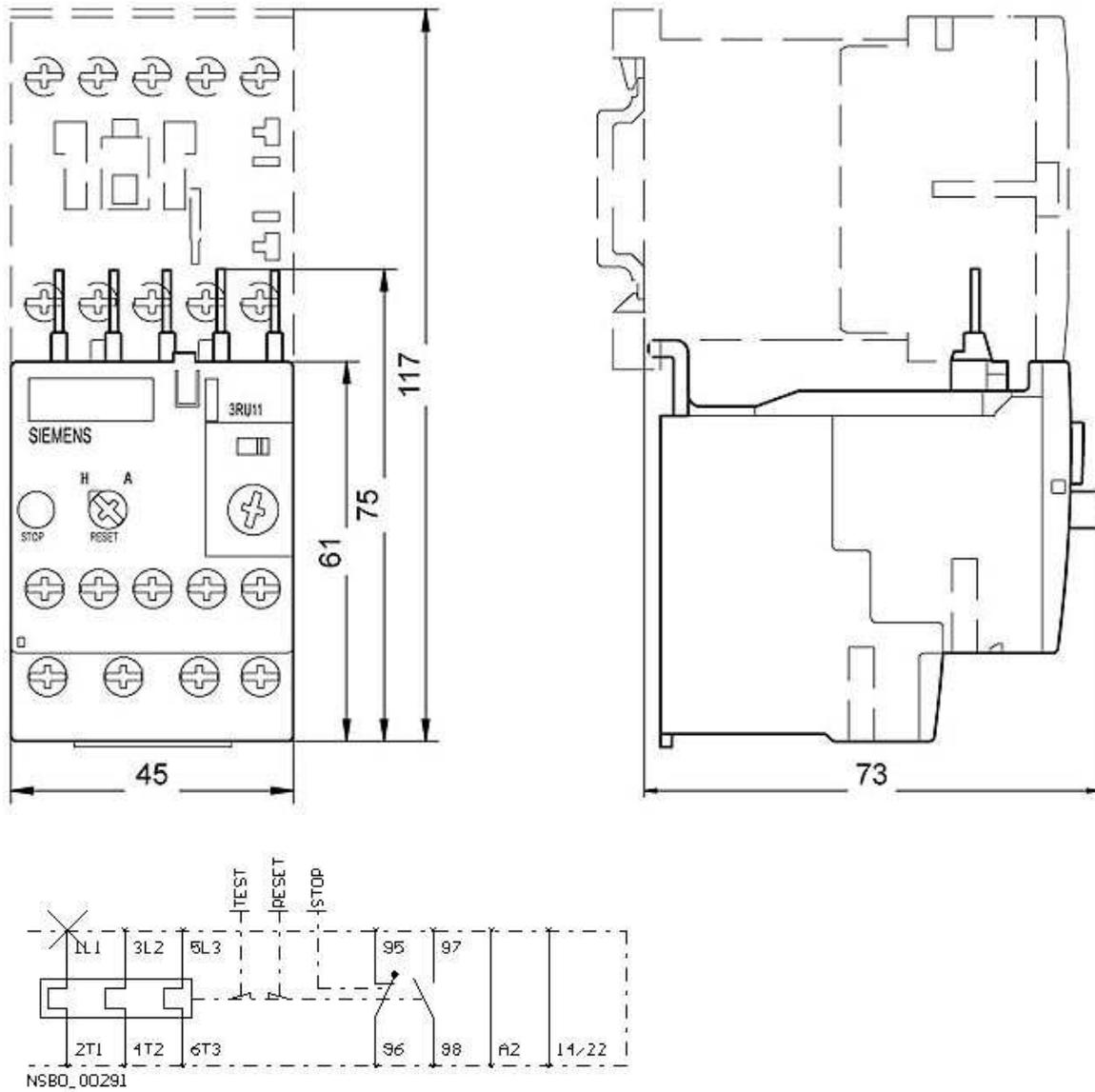
<http://www.siemens.com/cax>

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

http://support.automation.siemens.com/WW/view/en/3RU1116-1JB0/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mfb=3RU1116-1JB0



last change:

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