



CIRCUIT-BREAKER SZ S00,  
FOR TRANSFORMER PROT. A-RELEASE 1.4...2A,  
N-RELEASE 42A, SCREW CONNECTION,  
STANDARD SW. CAPACITY W. TRANSVERSE AUX.  
SWITCH 1NO+1NC

General technical data:	
<b>product brand name</b>	SIRIUS
<b>Product designation</b>	3RV2 circuit breaker
<b>Size of the circuit-breaker</b>	S00
<b>Number of poles / for main current circuit</b>	3
<b>Product function</b>	
<ul style="list-style-type: none"> <li>• short circuit protection</li> <li>• overload protection</li> <li>• phase disturbance recognition</li> <li>• plant protection</li> <li>• motor protection</li> <li>• motor protection with relays overload functionality</li> <li>• starter protection</li> <li>• transformer protection</li> <li>• disconnecter functionality</li> <li>• main control switches with supply disconnect function and EM-STOP switches</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>No</p>
<b>Design of the operating mechanism</b>	selector switch
<b>Product component</b>	
<ul style="list-style-type: none"> <li>• auxiliary switch</li> <li>• undervoltage release mechanism</li> </ul>	<p>Yes</p> <p>No</p>

• trip indicator		No
<b>Product extension</b>		
• auxiliary switch		Yes
• optional / motor drive		No
<b>Insulation voltage / with degree of pollution 3 / rated value</b>	V	690
<b>Impulse voltage resistance / rated value</b>	kV	6
<b>Protection class IP</b>		
• of the terminal		IP20
• on the front		IP20
<b>Protection against electrical shock</b>		finger-safe
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Relative humidity</b>		
• during operating phase	%	10 ... 95
<b>Ambient temperature</b>		
• during transport	°C	-50 ... +80
• during storage	°C	-50 ... +80
• during operating	°C	-20 ... +60
<b>Shock resistance / according to IEC 60068-2-27</b>		25g / 11 ms
<b>Active power loss / total / typical</b>	W	6

#### Main circuit:

<b>Operating voltage / rated value</b>	V	690
<b>Voltage type / for main circuit</b>		AC/DC
<b>Operating frequency</b>		
• rated value	Hz	50 ... 60
<b>Operating current / at AC-3 / at 400 V / rated value</b>	A	2

#### Hilfsstromkreis

<b>Design of the fuse link / for short-circuit protection of the auxiliary switch / required</b>		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current I <sub>k</sub> < 400 A)
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#### Protective and monitoring functions:

<b>Varification of suitability / ATEX</b>		No
<b>Design of the overload circuit breaker</b>		thermal
<b>Adjustable response current / of the current-dependent overload release</b>	A	1.4 ... 2
<b>Trip class</b>		CLASS 10
<b>Design of the short-circuit trip</b>		magnetic
<b>Operational short-circuit current breaking capacity (I<sub>cs</sub>) / with AC</b>		
• at 240 V / rated value	kA	100
• at 400 V / rated value	kA	100

<ul style="list-style-type: none"> <li>• at 500 V / rated value</li> <li>• at 690 V / rated value</li> </ul>	kA	100
	kA	10
<b>Breaking capacity maximum short-circuit current (Icu)</b>		
<ul style="list-style-type: none"> <li>• at 240 V / for AC / rated value</li> <li>• at 400 V / for AC / rated value</li> <li>• at 500 V / for AC / rated value</li> <li>• at 690 V / for AC / rated value</li> </ul>	kA	100
	kA	100
	kA	100
	kA	10
<b>Design of fuse insert / for IT network / for short-circuit protection of the main circuit</b>		
<ul style="list-style-type: none"> <li>• at 400 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>		gL/gG 25 A
		gL/gG 25 A
		gL/gG 20 A
<b>Breaking capacity short-circuit current (Icn)</b>		
<ul style="list-style-type: none"> <li>• with 1 current path / at 150 V / for DC / rated value</li> <li>• with 2 current paths in series / at 300 V / for DC / rated value</li> <li>• with 3 current paths in series / at 450 V / for DC / rated value</li> </ul>	kA	10
	kA	10
	kA	10

#### Installation/ mounting/ dimensions:

<b>Mounting type</b>		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
<b>mounting position</b>		any
<b>Depth</b>	mm	96
<b>Height</b>	mm	97
<b>Width</b>	mm	45

#### Connections/ terminals:

<b>Arrangement of electrical connectors / for main current circuit</b>		Top and bottom
<b>Design of the electrical connection / for main current circuit</b>		screw-type terminals
<b>Type of the connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>• solid or multi-stranded</li> <li>• finely stranded <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for main contacts</li> </ul>		2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
		2x (18 ... 14), 2x 12
<b>Design of the electrical connection / for auxiliary and control current circuit</b>		screw-type terminals
<b>Type of the connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>• solid or multi-stranded</li> <li>• finely stranded <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul> </li> </ul>		2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )
		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )

• for AWG conductors / for auxiliary contacts

2x (20 ... 16), 2x (18 ... 14)

### UL/CSA ratings:

<b>Operating voltage / according to UL 60947 / rated value</b>	V	600
<b>Full-load current (FLA) / for 3-phase motor</b>		
• at 480 V / rated value	A	2
• at 600 V / rated value	A	2
<b>Contact rating designation / for auxiliary contacts / according to UL</b>		C300 / R300

### Certificates/ approvals:

#### General Product Approval



#### Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

#### Shipping Approval



#### Shipping Approval

#### other



[Confirmation](#)



[other](#)

[Environmental Confirmations](#)

### Further information:

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

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

#### Industry Mall (Online ordering system)

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

#### Cax online generator

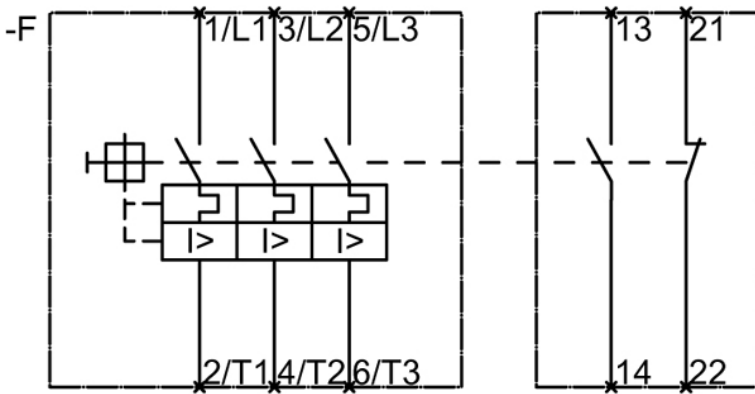
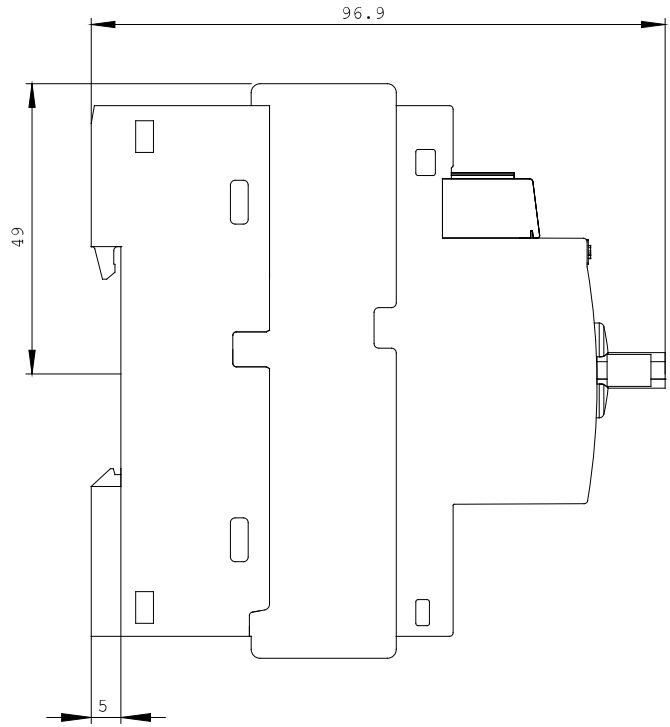
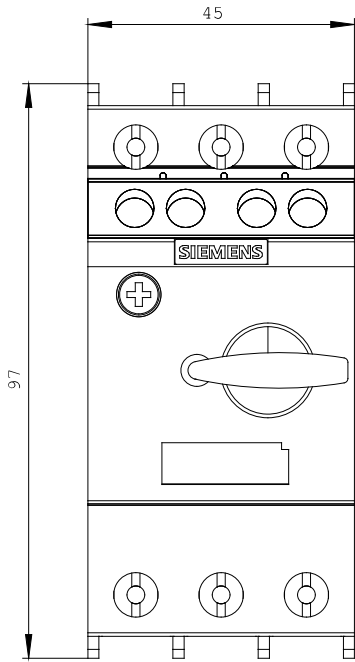
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RV2411-1BA15/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV2411-1BA15](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2411-1BA15)



last change:

Aug 4, 2014