



CIRCUIT-BREAKER SZ S00,  
FOR MOTOR PROTECTION, CLASS 10,  
A-REL.1.1...1.6A, N-RELEASE 21A,  
SCREW CONNECTION,  
STANDARD SW. CAPACITY,  
W. TRANSVERSE AUX. SWITCH 1NO+1NC

General technical data:		
product brand name		SIRIUS
Product designation		3RV2 circuit breaker
Size of the circuit-breaker		S00
Size of contactor / can be combined / company-specific		S0
Number of poles / for main current circuit		3
Product function		
• Short circuit protection		Yes
• overload protection		Yes
• Phase failure detection		Yes
• System protection		Yes
• motor protection		Yes
• motor protection with overload relay function		No
• starter protection		No
• Transformer protection		No
• Disconnecter functionality		Yes
• Main switches with supply disconnect function and EM-STOP switches		No
Design of the operating mechanism		selector switch
Product component		
• Auxiliary switch		Yes

• undervoltage release		No
• Trip indicator		No
<b>Product expansion</b>		
• Auxiliary switch		Yes
• optional / motor drive		No
<b>Insulation voltage / with degree of pollution 3 / Rated value</b>	V	690
<b>Surge 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 height above sea level / maximum</b>	m	2,000
<b>Relative humidity</b>		
• during operation	%	10 ... 95
<b>Ambient temperature</b>		
• during transport	°C	-50 ... +80
• during storage	°C	-50 ... +80
• during operation	°C	-20 ... +60
<b>Shock resistance / acc. to IEC 60068-2-27</b>		25g / 11 ms
<b>Usage category</b>		
• acc. to IEC 60947-4-1		AC-3
<b>Active power loss / total / typical</b>	W	6

<b>Main circuit:</b>		
<b>Operating current / Rated value</b>	A	1.6
<b>Operating voltage / Rated value</b>	V	690
<b>Type of voltage / for main current 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	1.6

<b>Hilfsstromkreis</b>		
<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)

<b>Protective and monitoring functions:</b>		
<b>Type of protection</b>		Increased safety
<b>Certificate of suitability / ATEX</b>		Yes
<b>Design of the overload circuit breaker</b>		thermal
<b>Adjustable response value current / of the current-dependent overload release</b>	A	1.1 ... 1.6

<b>Trip class</b>		CLASS 10
<b>Design of the short-circuit trip</b>		magnetic
<b>Response value current / of the instantaneous short-circuit release</b>	A	21
<b>Operational short-circuit current breaking capacity (Ics) / with AC</b>		
• at 240 V / Rated value	kA	100
• at 400 V / Rated value	kA	100
• at 500 V / Rated value	kA	100
• at 690 V / Rated value	kA	100
<b>Maximum short-circuit current breaking capacity (Icu)</b>		
• with AC / at 240 V / Rated value	kA	100
• with AC / at 400 V / Rated value	kA	100
• with AC / at 500 V / Rated value	kA	100
• with AC / at 690 V / Rated value	kA	100
<b>Design of the fuse link / for IT network / for short-circuit protection of the main circuit</b>		
• at 500 V		gL/gG 20 A
• at 690 V		gL/gG 16 A
<b>Breaking capacity short-circuit current (Icn)</b>		
• with 1 current path / for DC / at 150 V / Rated value	kA	10
• with 2 current paths in series / for DC / at 300 V / Rated value	kA	10
• with 3 current paths in series / for DC / at 450 V / Rated value	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 connectable conductor cross-section</b>		
• for main contacts		
• single or multi-stranded		2x (0,75 ... 2,5 mm²), 2x 4 mm²
• finely stranded		
• with core end processing		2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
• for AWG conductors / for main contacts		2x (18 ... 14), 2x 12

<b>Design of the electrical connection / for auxiliary and control current circuit</b>		screw-type terminals
<b>Type of connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>• single or multi-stranded</li> <li>• finely stranded <ul style="list-style-type: none"> <li>• with core end processing</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for auxiliary contacts</li> </ul>		2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²)  2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)  2x (20 ... 16), 2x (18 ... 14)

#### UL/CSA ratings:

<b>Operating voltage / acc. to UL 60947 / Rated value</b>	V	600
<b>Full-load current (FLA) / for three-phase AC motor</b> <ul style="list-style-type: none"> <li>• at 480 V / Rated value</li> <li>• at 600 V / Rated value</li> </ul>	A  A	1.6  1.6
<b>Contact rating / of the auxiliary contacts / acc. to UL</b>		C300 / R300

#### Certificates/ approvals:

General Product Approval			Declaration of Conformity	Test Certificates	
				<a href="#">Special Test Certificate</a>	<a href="#">Type Test Certificates/Test Report</a>
CCC		UL	EG-Konf.		
Shipping Approval					
					
ABS	BUREAU VERITAS	DNV	GL	LRS	PRS
Shipping Approval		other			
		<a href="#">Confirmation</a>		<a href="#">other</a>	<a href="#">Environmental Confirmations</a>
RINA	RMRS		VDE		

#### 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

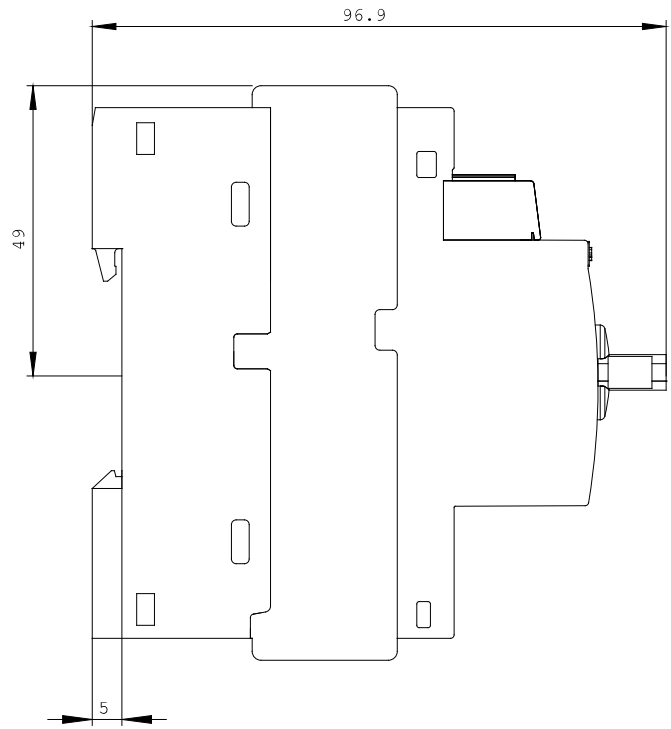
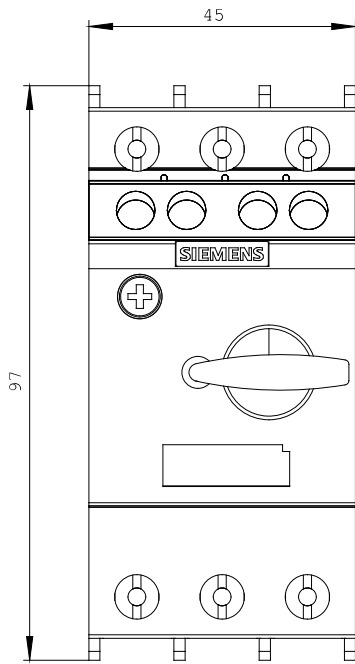
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RV2011-1AA15/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV2011-1AA15](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1AA15)



last change:

Nov 20, 2014