



CIRCUIT BREAKER SZ S00,  
FOR MOTOR PROTECTION, CLASS 10,  
A-RELEASE 3.5...5A, N-RELEASE 65A,  
SCREW CONNECTION,  
STANDARD SW. CAPACITY W. TRANSVERSE AUX.  
SWITCH 1NO+1NC REUSABLE PACKAGING PACK = 43  
UNITS

**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>		
• removable terminal for auxiliary and control circuit		No
• overload protection		Yes
• phase disturbance recognition		Yes
• short-circuit to earth recognition		No
<b>Product component</b>		
• auxiliary switch		Yes
• undervoltage release mechanism		No
• trip indicator		No
<b>Product extension</b>		
• auxiliary switch		Yes
• optional / motor drive		No
<b>Impulse voltage resistance / rated value</b>	kV	6
<b>Protection class IP / on the front</b>		IP20
<b>Protection against electrical shock</b>		finger-safe

<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Resistance against shock</b>		25g / 11 ms
<b>Ambient temperature</b>		
• during transport	°C	-50 ... +80
• during storage	°C	-50 ... +80
• during operating	°C	-20 ... +60
<b>Active power loss / total / typical</b>	W	7

#### Main circuit:

<b>Service power / at AC-3</b>		
• at 400 V / rated value	W	2,200
• at 500 V / rated value	W	2,200
• at 690 V / rated value	W	4,000
<b>Operational current / at AC-3 / at 400 V / rated value</b>	A	5
<b>Mechanical operating cycles as operating time / of the main contacts / typical</b>		100,000
<b>Frequency of operation / at AC-3 / according to IEC 60947-6-2</b>	1/h	15

#### Auxiliary circuit:

<b>Design of the auxiliary switch</b>		transverse
<b>Number of change-over switches / for auxiliary contacts</b>		0
<b>Mechanical operating cycles as operating time / of the auxiliary contacts / typical</b>		100,000
<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 $I_k < 400$ A)
<b>Operating current / of the auxiliary contacts / at AC-15 / at 24 V</b>	A	2
<b>Operating current / of the auxiliary contacts</b>		
• at AC-15		
• at 230 V	A	0.5
• at DC-13		
• at 24 V	A	1
• at 60 V	A	0.15

#### Protection function:

<b>Trip class</b>		CLASS 10
<b>Adjustable response current / of the current-dependent overload release</b>	A	3.5 ... 5
<b>Breaking capacity limit short-circuit current (I<sub>cu</sub>)</b>		
• at 400 V / rated value	A	100,000
• at 500 V / rated value	A	100,000
• at 690 V / rated value	A	6,000

#### Safety:

<b>Proportion of dangerous failures</b>		
• with high demand rate / according to SN 31920	%	40
• with low demand rate / according to SN 31920	%	40
<b>Failure rate (FIT value) / with low demand rate / according to SN 31920</b>	FIT	50
<b>B10 value / with high demand rate / according to SN 31920</b>		50,000
<b>T1 value / for proof test interval or service life / according to IEC 61508</b>	a	10

#### Installation/mounting/dimensions:

<b>Type of mounting</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:






<b>Arrangement of electrical connectors / for main current circuit</b>		Top and bottom
<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 (0.75 ... 2.5 mm <sup>2</sup> ), 2x 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 AWG conductors / for main contacts		2x (18 ... 14), 2x 12
• 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> )
• for AWG conductors / for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14)

#### UL/CSA ratings:

<b>yielded mechanical performance (hp)</b>		
• for single-phase squirrel cage motors		
• at 110/120 V / rated value	hp	0.167
• at 230 V / rated value	hp	0.5
• for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	1
• at 220/230 V / rated value	hp	1

• at 460/480 V / rated value	hp	3
• at 575/600 V / rated value	hp	3
<b>Operating current (FLA) / for three-phase squirrel cage motors</b>		
• at 480 V / rated value	A	4.8
• at 600 V / rated value	A	3.9
<b>Contact rating designation / for auxiliary contacts / according to UL</b>		C300 / R300

**Certificates/approvals:**

General Product Approval	For use in hazardous locations	Declaration of Conformity	Test Certificates	
 CSA  UL	 ATEX	 EG-Konf.	<a href="#">Special Test Certificate</a>	<a href="#">Type Test Certificates/Test Report</a>
<b>Shipping Approval</b>  DNV	<b>other</b> <a href="#">other</a>			

**Further information:**

- Information- and Downloadcenter (Catalogs, Brochures,...)**  
<http://www.siemens.com/industrial-controls/catalogs>

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- Industry Mall (Online ordering system)**  
<http://www.siemens.com/industrial-controls/mall>

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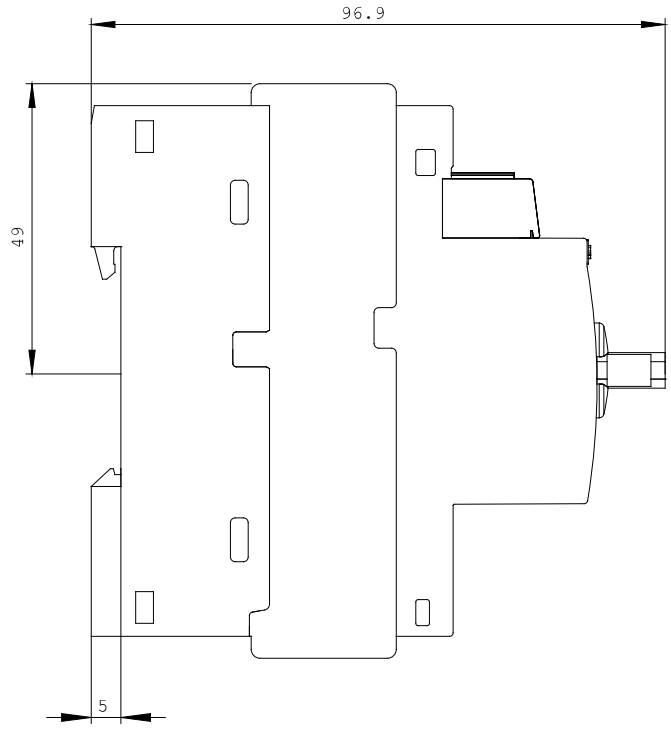
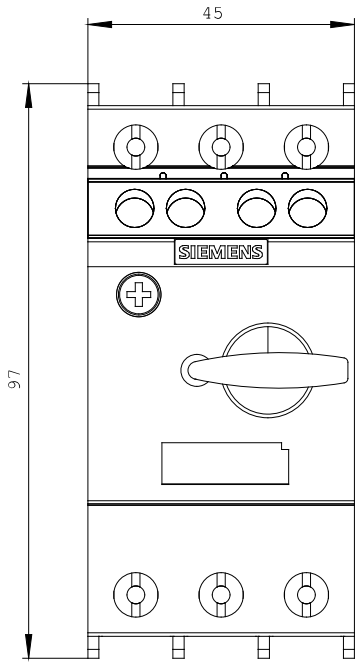
- Cax online generator:**  
<http://www.siemens.com/cax>

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- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<http://support.automation.siemens.com/WW/view/en/3RV2011-1FA15-ZX95/all>

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- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV2011-1FA15-ZX95](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1FA15-ZX95)



last change:

Feb 14, 2013