



CIRCUIT-BREAKER SZ S00,  
FOR MOTOR PROTECTION, CLASS 10,  
A-RELEASE 9..12.5A, N-RELEASE 163A,  
SCREW CONNECTION, STANDARD SW. CAPACITY

General technical data:		
product brand name		SIRIUS
Product designation		3RV2 circuit breaker
Size of the circuit-breaker		S00
Number of poles / for main current circuit		3
Product function		
<ul style="list-style-type: none"> <li>removable terminal for auxiliary and control circuit</li> </ul>		No
<ul style="list-style-type: none"> <li>overload protection</li> </ul>		Yes
<ul style="list-style-type: none"> <li>phase disturbance recognition</li> </ul>		Yes
<ul style="list-style-type: none"> <li>short-circuit to earth recognition</li> </ul>		No
Product component		
<ul style="list-style-type: none"> <li>auxiliary switch</li> </ul>		No
<ul style="list-style-type: none"> <li>undervoltage release mechanism</li> </ul>		No
<ul style="list-style-type: none"> <li>trip indicator</li> </ul>		No
Product extension		
<ul style="list-style-type: none"> <li>auxiliary switch</li> </ul>		Yes
<ul style="list-style-type: none"> <li>optional / motor drive</li> </ul>		No
Impulse voltage resistance / rated value	kV	6
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe

<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<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	7.3

#### Main circuit:

<b>Operating voltage / rated value</b>	V	690
<b>Service power / at AC-3</b>		
• at 400 V / rated value	W	5,500
• at 500 V / rated value	W	7,500
• at 690 V / rated value	W	7,500
<b>Operating current / at AC-3 / at 400 V / rated value</b>	A	12.5
<b>Mechanical operating cycles as operating time / of the main contacts / typical</b>		100,000
<b>Frequency of operation / with AC-3 / maximum</b>	1/h	15

#### Auxiliary circuit:

<b>Number of changeover contacts / for auxiliary contacts</b>		0
<b>Mechanical operating cycles as operating time / of the auxiliary contacts / typical</b>		100,000

#### Protection function:

<b>Trip class</b>		CLASS 10
<b>Adjustable response current / of the current-dependent overload release</b>	A	9 ... 12.5

#### 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>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
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**Connections:**

<b>Arrangement of electrical connectors / for main current circuit</b>		Top and bottom
<b>Design of the electrical connection</b>		screw-type terminals
<ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>		
<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>• 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 (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) 2x (18 ... 14), 2x 12

**UL/CSA ratings:**

<b>yielded mechanical performance (hp)</b>		
<ul style="list-style-type: none"> <li>• for single-phase squirrel cage motors <ul style="list-style-type: none"> <li>• at 110/120 V / rated value</li> <li>• at 230 V / rated value</li> </ul> </li> <li>• for three-phase squirrel cage motors <ul style="list-style-type: none"> <li>• at 200/208 V / rated value</li> <li>• at 220/230 V / rated value</li> <li>• at 460/480 V / rated value</li> <li>• at 575/600 V / rated value</li> </ul> </li> </ul>	hp 0.5 hp 2 hp 3 hp 3 hp 7.5 hp 10	
<b>Full-load current (FLA) / for 3-phase motor</b>		
<ul style="list-style-type: none"> <li>• at 480 V / rated value</li> <li>• at 600 V / rated value</li> </ul>	A 11 A 11	

**Certificates/approvals:**

<b>General Product Approval</b>	<b>Declaration of Conformity</b>	<b>Test Certificates</b>
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[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

**Shipping Approval**



**Shipping Approval**      **other**



[Confirmation](#)



[other](#)

[Environmental Confirmations](#)

**Further information:**

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**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,...)**

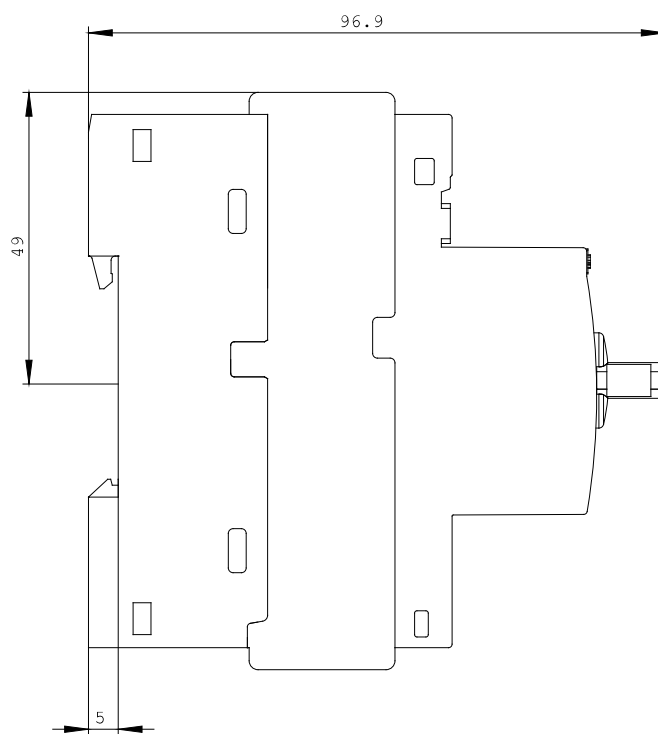
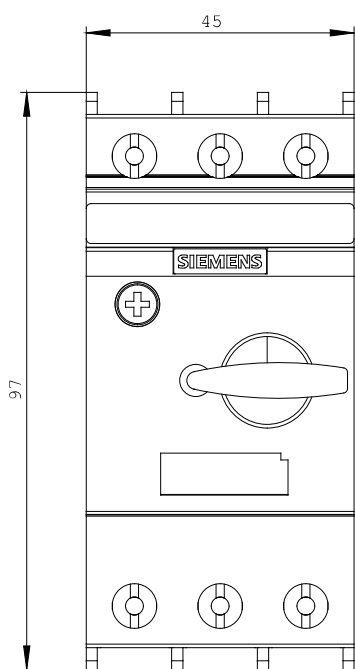
<http://support.automation.siemens.com/WW/view/en/3RV2011-1KA10/all>

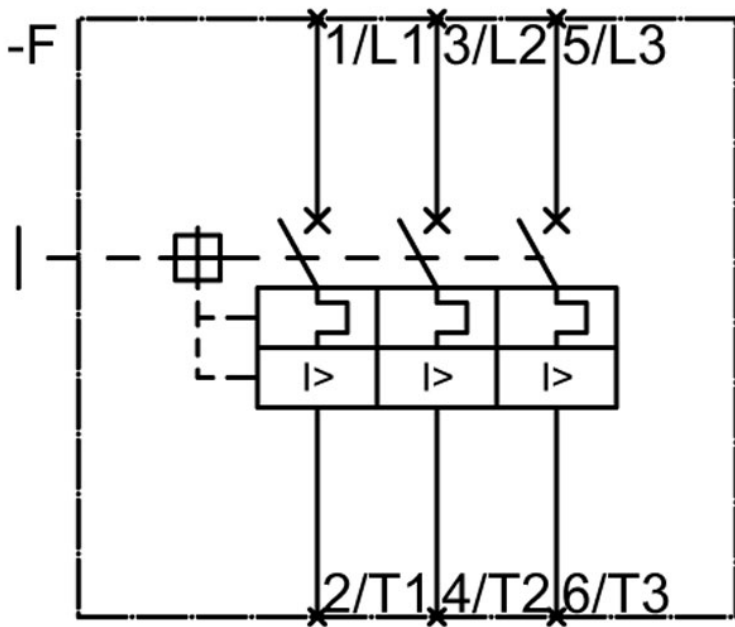
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**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV2011-1KA10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1KA10)

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last change:

Apr 5, 2014