



CIRCUIT-BREAKER SZ S00,  
FOR MOTOR PROTECTION, CLASS 10,  
A-REL. 0.35...0.5A,  
N-RELEASE 6.5A 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		
• removable terminal for auxiliary and control circuit		No
• overload protection		Yes
• phase disturbance recognition		Yes
• short-circuit to earth recognition		No
Product component		
• auxiliary switch		No
• undervoltage release mechanism		No
• trip indicator		No
Product extension		
• auxiliary switch		Yes
• optional / motor drive		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>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	4.9

#### Main circuit:

<b>Operating voltage / rated value</b>	V	690
<b>Service power / at AC-3</b>		
• at 400 V / rated value	W	120
• at 500 V / rated value	W	120
• at 690 V / rated value	W	180
<b>Operational current / at AC-3 / at 400 V / rated value</b>	A	0.5
<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>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	0.35 ... 0.5
<b>Breaking capacity limit short-circuit current (Icu)</b>		
• at 400 V / rated value	A	100,000
• at 500 V / rated value	A	100,000
• at 690 V / rated value	A	100,000

#### 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:

Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
mounting position		any
Depth	mm	96
Height	mm	97
Width	mm	45

### Connections:

Arrangement of electrical connectors / for main current circuit		Top and bottom
Design of the electrical connection <ul style="list-style-type: none"> <li>for main current circuit</li> </ul>		screw-type terminals
Type of the connectable conductor cross-section <ul style="list-style-type: none"> <li>for main contacts <ul style="list-style-type: none"> <li>solid</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

### Certificates/approvals:

General Product Approval	Declaration of Conformity	Test Certificates
--------------------------	---------------------------	-------------------



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

#### Shipping Approval



#### Shipping Approval

other



[other](#)

### Further information:

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

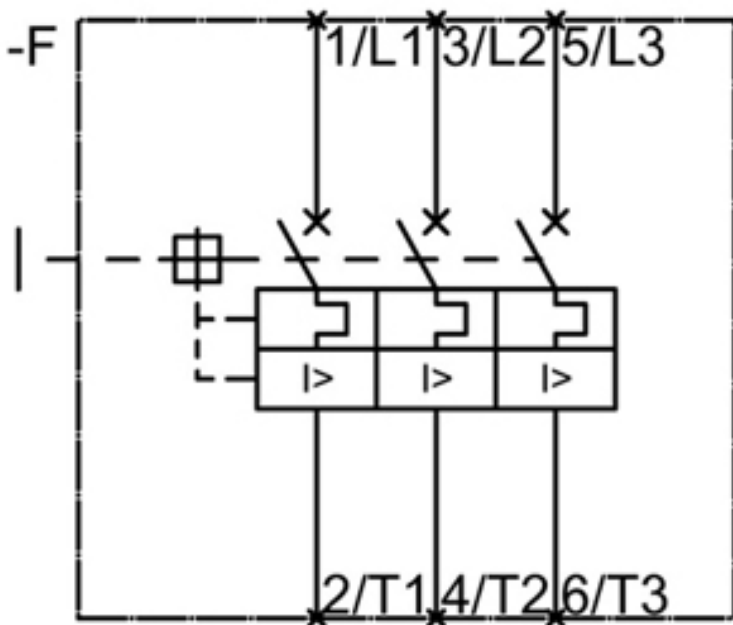
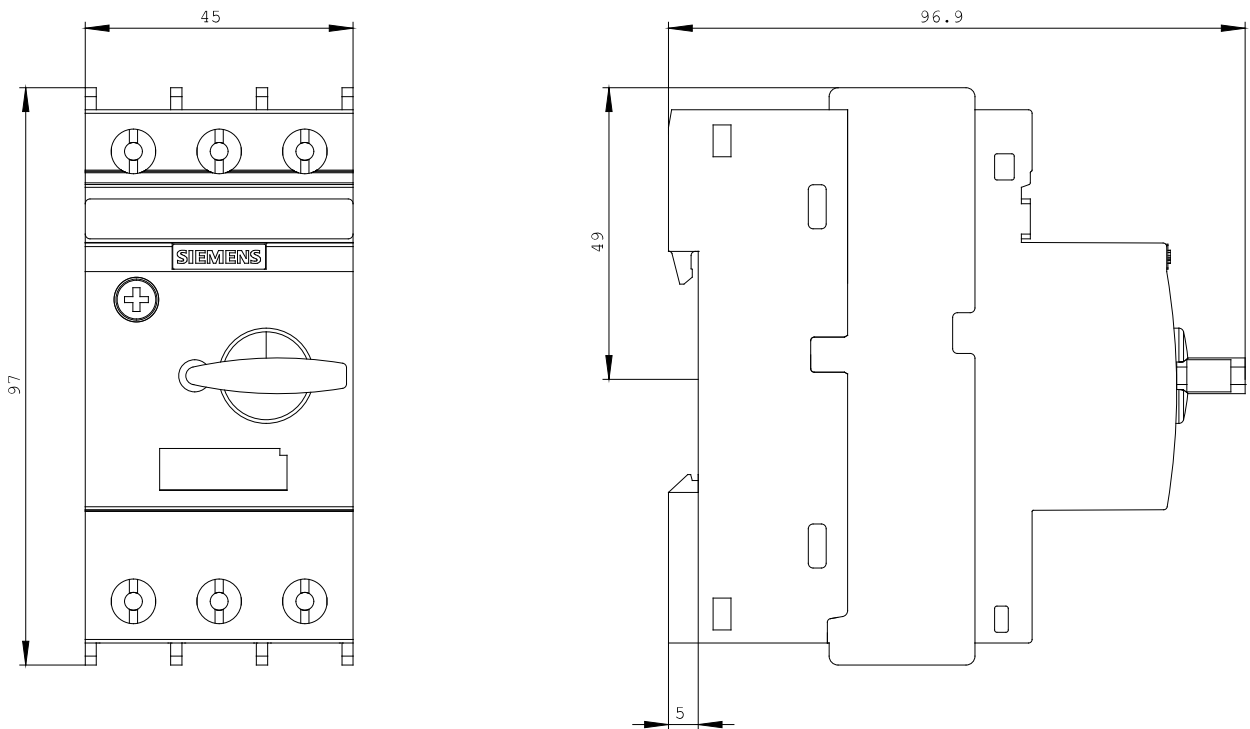
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

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

Cax online generator:

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



last change:

Jul 1, 2013