



CIRCUIT-BREAKER SZ S00,  
FOR MOTOR PROTECTION, CLASS 10,  
A-REL. 0.22...0.32A,  
N-RELEASE4.2A SCREW CONNECTION,  
STANDARD SW. CAPACITY

**General technical data:**

product brand name	SIRIUS	
product designation	3RV2 circuit breaker	
Size of the circuit-breaker	S00	
Trip class	CLASS 10	
Protection class IP / on the front	IP20	
Degree of pollution	3	
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
• during storage	°C	-50 ... +80
• during operating	°C	-20 ... +60
• during transport	°C	-50 ... +80
Resistance against shock	25g / 11 ms	
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690
Active power loss / total / typical	W	5
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		F
• according to DIN EN 61346-2		F

<b>Mechanical operating cycles as operating time</b>		
• of the main contacts / typical		100,000
• of the auxiliary contacts / typical		100,000
<b>Type of the driving mechanism / motor drive</b>		No
<b>Design of the operating mechanism</b>		selector switch
<b>Product function</b>		
• overload protection		Yes
• phase disturbance recognition		Yes
<b>Product component</b>		
• auxiliary switch		No
• undervoltage release mechanism		No
• trip indicator		No
<b>Product extension / optional / motor drive</b>		No

#### Main circuit:

<b>Number of poles / for main current circuit</b>		3
<b>Operating voltage / at AC-3 / rated value / maximum</b>	V	690
<b>Operating current / at AC-3 / at 400 V / rated value</b>	A	0.32
<b>Service power / at AC-3</b>		
• at 400 V / rated value	W	90
• at 500 V / rated value	W	120
• at 690 V / rated value	W	120
<b>Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum</b>	1/h	15
<b>Arrangement of electrical connectors / for main current circuit</b>		Top and bottom
<b>Adjustable response current</b>		
• of the non-delayed short-circuit release	A	4.2 ... 4.2
• of the current-dependent overload release	A	0.22 ... 0.32
<b>Service power / at AC-3 / at 230 V / rated value</b>	W	40
<b>Continuous current / rated value</b>	A	0.32

#### Auxiliary circuit:

<b>Product extension / auxiliary switch</b>		Yes
<b>Number of NC contacts / for auxiliary contacts / instantaneous switching</b>		0
<b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b>		0
<b>Number of change-over switches / for auxiliary contacts</b>		0

#### Inputs/ Outputs:

<b>Number of digital inputs</b>		0
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<b>Short-circuit:</b>		
<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
<b>Design of the overcurrent release and short-circuit release</b>		thermomagnetic
<b>Installation/mounting/dimensions:</b>		
<b>mounting position</b>		any
<b>Type of mounting</b>		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
<b>Width</b>	mm	45
<b>Height</b>	mm	97
<b>Depth</b>	mm	91
<b>Distance, to be maintained, to the ranks assembly</b>		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	50
• downwards	mm	50
• sideways	mm	0
<b>Distance, to be maintained, to earthed part</b>		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	50
• sideways	mm	30
• downwards	mm	50
<b>Distance, to be maintained, conductive elements</b>		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	50
• downwards	mm	50
• sideways	mm	30
<b>Connections:</b>		
<b>Product function</b>		
• removable terminal for main circuit		No
• removable terminal for auxiliary and control circuit		No
<b>Design of the electrical connection</b>		
• for main 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	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• with conductor end processing	
• for AWG conductors / for main contacts	2x (18 ... 14), 2x 12

### Certificates/approvals:

Verification of suitability	CE / UL / CSA / CCC
• für Staubexplosionsschutz für Zone 21/22	no
• for gas explosion protection for zone 1/2	no

### General Product Approval

For use in  
hazardous  
locations

Declaration of  
Conformity



CCC



CSA



GOST



UL



ATEX



EG-Konf.

### Test Certificates

[other](#)

[Special Test  
Certificate](#)

[Type Test  
Certificates/Test  
Report](#)

### Shipping Approval



ABS



BUREAU  
VERITAS



GL



LRS



PRIS



RINA

[Shipping Approval](#)

[other](#)

[other](#)



RMRS



VDE

### Safety:

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

### 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**

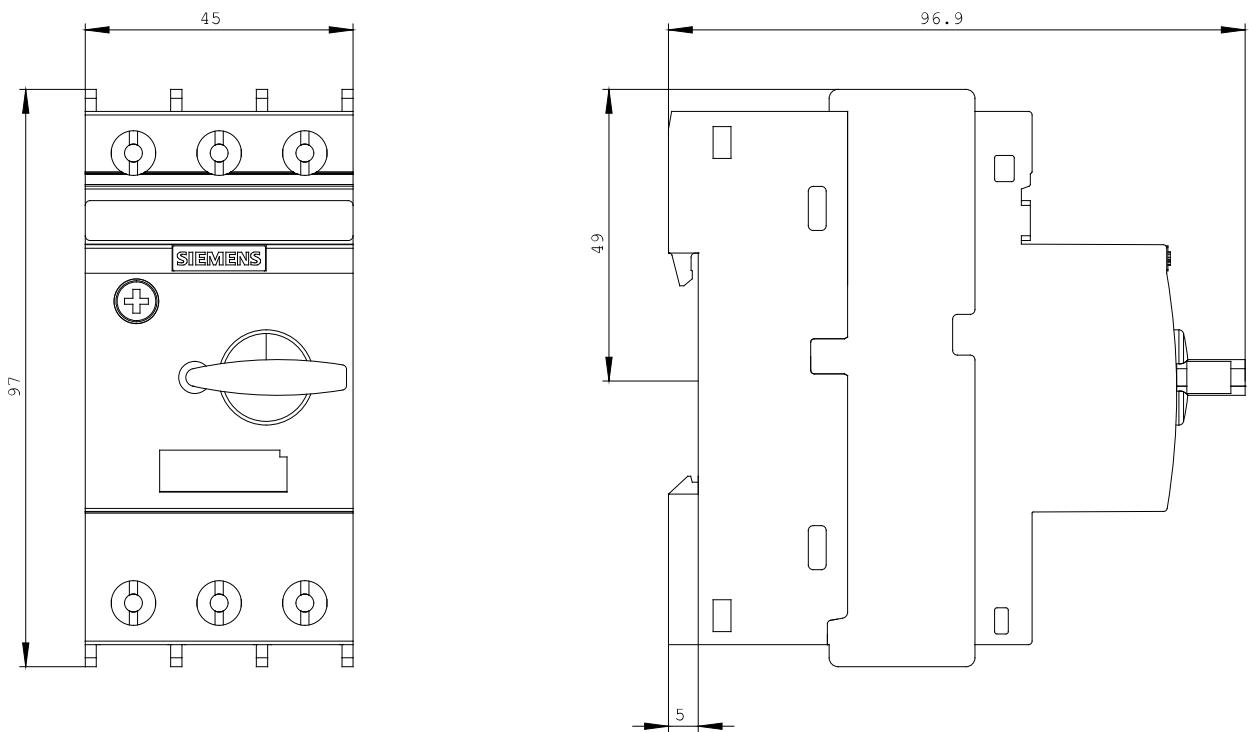
<http://www.siemens.com/cax>

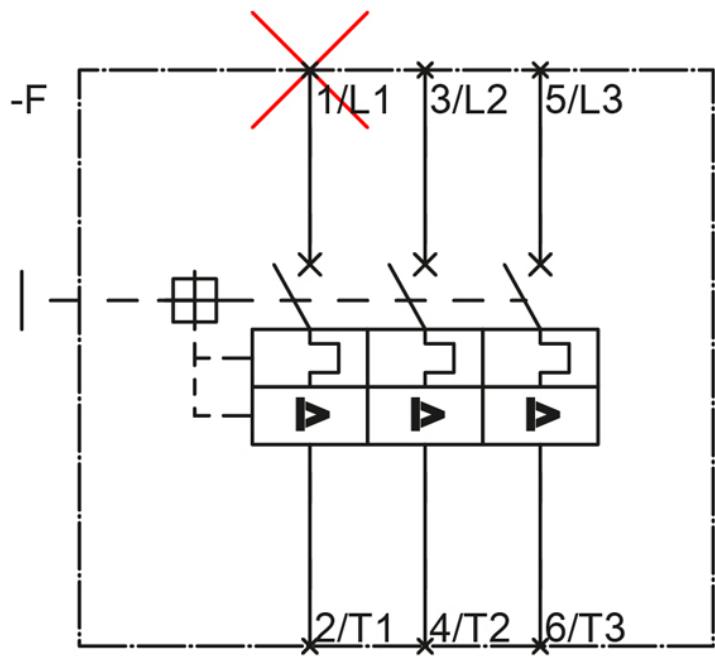
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RV2011-0DA10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV2011-0DA10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-0DA10)





last change:

Sep 12, 2012