



CIRCUIT-BREAKER SZ S00,  
FOR STARTER COMBINATION,  
RATED CURRENT 12.5A, N-RELEASE 163A,  
SCREW CONNECTION, STANDARD SW. CAPACITY

### 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>Protection class IP / on the front</b>		IP20
<b>Degree of pollution</b>		3
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Ambient temperature</b>		
• during storage	°C	-50 ... +80
• during operating	°C	-20 ... +60
• during transport	°C	-50 ... +80
<b>Resistance against shock</b>		25g / 11 ms
<b>Impulse voltage resistance / rated value</b>	kV	6
<b>Insulation voltage / rated value</b>	V	690
<b>Active power loss / total / typical</b>	W	7.3
<b>Item designation</b>		
• 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		No
• phase disturbance recognition		No
<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	12.5
<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>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	163 ... 163
<b>Service power / at AC-3 / at 230 V / rated value</b>	W	3,000
<b>Continuous current / rated value</b>	A	12.5

#### 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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#### Short-circuit:

<b>Breaking capacity limit short-circuit current (I<sub>cu</sub>)</b>		
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• at 400 V / rated value	A	100,000
• at 500 V / rated value	A	42,000
• at 690 V / rated value	A	6,000
<b>Design of the overcurrent release and short-circuit release</b>		thermomagnetic

### Installation/mounting/dimensions:

<b>Built in orientation</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

### Connections:

<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		

- with conductor end processing
- for AWG conductors / for main contacts

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:

#### Verification of suitability

- für Staubexplosionsschutz für Zone 21/22
- for gas explosion protection for zone 1/2

CE / UL / CSA

no

no

#### General Product Approval

#### Test Certificates



CQC



CSA

[ROSTEST](#)



UL

[Manufacturer](#)

#### Shipping Approval



ABS



GL



LRS



PRS



RINA



RMRS

#### other

[Manufacturer](#)

[other](#)



VDE

### UL/CSA ratings

#### yielded mechanical performance (hp)

- for single-phase squirrel cage motors
  - at 110/120 V / rated value
  - at 230 V / rated value
- for three-phase squirrel cage motors
  - at 200/208 V / rated value
  - at 220/230 V / rated value
  - at 460/480 V / rated value
  - at 575/600 V / rated value

hp	0.5
hp	2
hp	3
hp	3
hp	7.5
hp	10

#### Operating current (FLA) / for three-phase squirrel cage motors

- at 480 V / rated value
- at 600 V / rated value

A	11
A	11

### Safety:

#### B10 value / with high demand rate

- according to SN 31920

50,000

#### T1 value / for proof test interval or service life

- according to IEC 61508

a 10

#### Failure rate (FIT value) / with low demand rate

- according to SN 31920

FIT 50

<b>Proportion of dangerous failures</b>	• with low demand rate / according to SN 31920	%	40
	• 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**

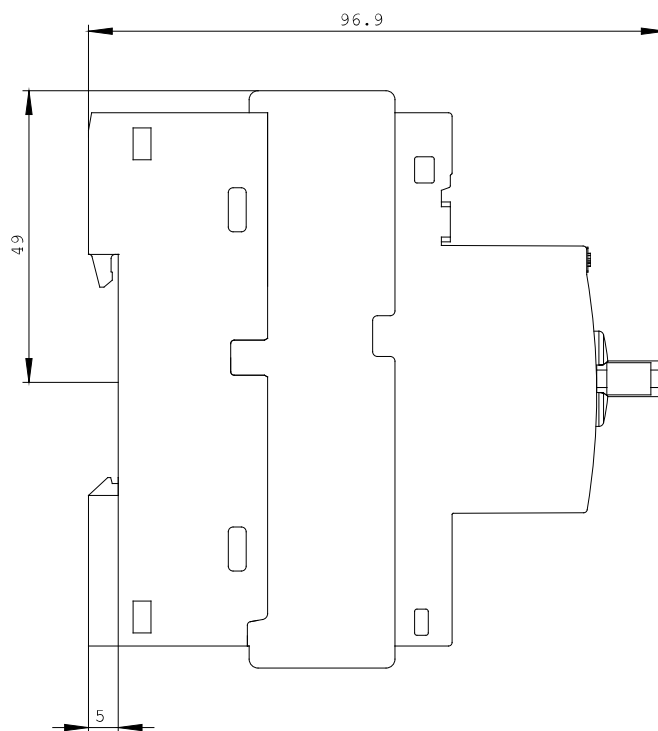
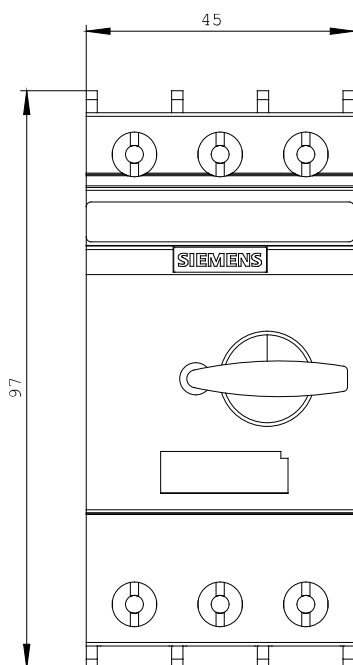
<http://www.siemens.com/cax>

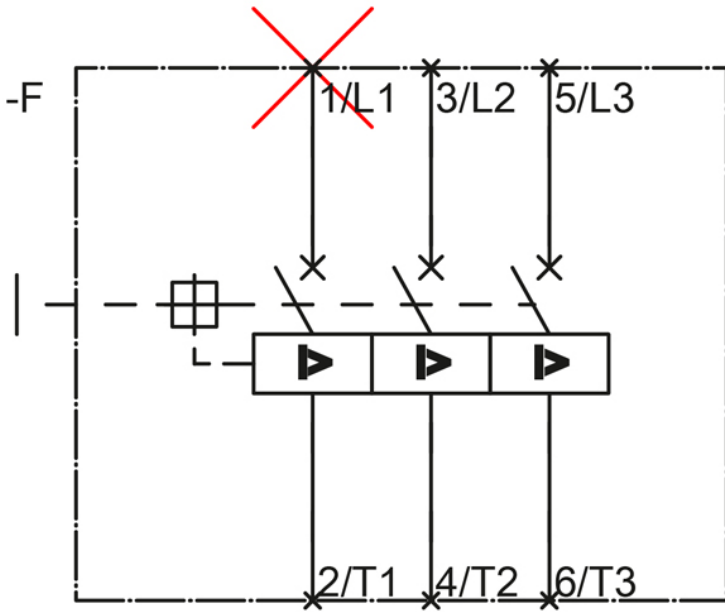
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RV2311-1KC10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV2311-1KC10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2311-1KC10)





last change:

Feb 6, 2012