



CIRCUIT-BREAKER SZ S00,  
FOR PLANT PROTECTION,  
WITH APPROBATION CIRCUIT-BREAKER UL 489. CSA  
C22.2 NO.5-02. A-RELEASE 12.5 A,  
N-RELEASE 163 A, SCREW CONNECTION,  
STANDARD SW. CAPACITY

### General technical data:

Product brand name		SIRIUS
product designation		3RV2 circuit breaker
Size of the circuit-breaker		S00
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	7.3
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		F
• according to DIN EN 61346-2		F
Mechanical operating cycles as operating time		

• 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		No
<b>Product component</b>		
• auxiliary switch		No
• undervoltage release mechanism		No
• trip indicator		No
<b>Product extension / optional / motor drive</b>		No

<b>Main circuit:</b>		
<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	11.5
<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>Service power / at AC-3 / at 230 V / rated value</b>	W	3,000
<b>Continuous current / rated value</b>	A	12.5

<b>Auxiliary circuit:</b>		
<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

<b>Inputs/ Outputs:</b>		
<b>Number of digital inputs</b>		0

<b>Short-circuit:</b>		
<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	42,000

• at 690 V / rated value	A	6,000
<b>Breaking capacity limit short-circuit current (I<sub>cu</sub>) / at 480 AC Y/277 V / according to UL 489 / rated value</b>	A	65,000
<b>Design of the overcurrent release and short-circuit release</b>		thermomagnetic

<b>Installation/mounting/dimensions:</b>		
<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	144
<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 (1 ... 10 mm <sup>2</sup> )
• stranded		1.5 ... 25 mm <sup>2</sup>

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

2x (1 ... 16 mm<sup>2</sup>)

2x (14 ... 10)

#### 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



[ROSTEST](#)



[Manufacturer](#)

##### Shipping Approval



ABS



GL



LRS



PRS



RINA



RMRS

##### other

[Manufacturer](#)

[other](#)



VDE

#### 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

##### Proportion of dangerous failures

- with low demand rate / according to SN 31920
- with high demand rate / according to SN 31920

%

40

%

40

##### Protection against electrical shock

finger-safe

#### Further information:

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

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

##### Industry Mall (Online ordering system)

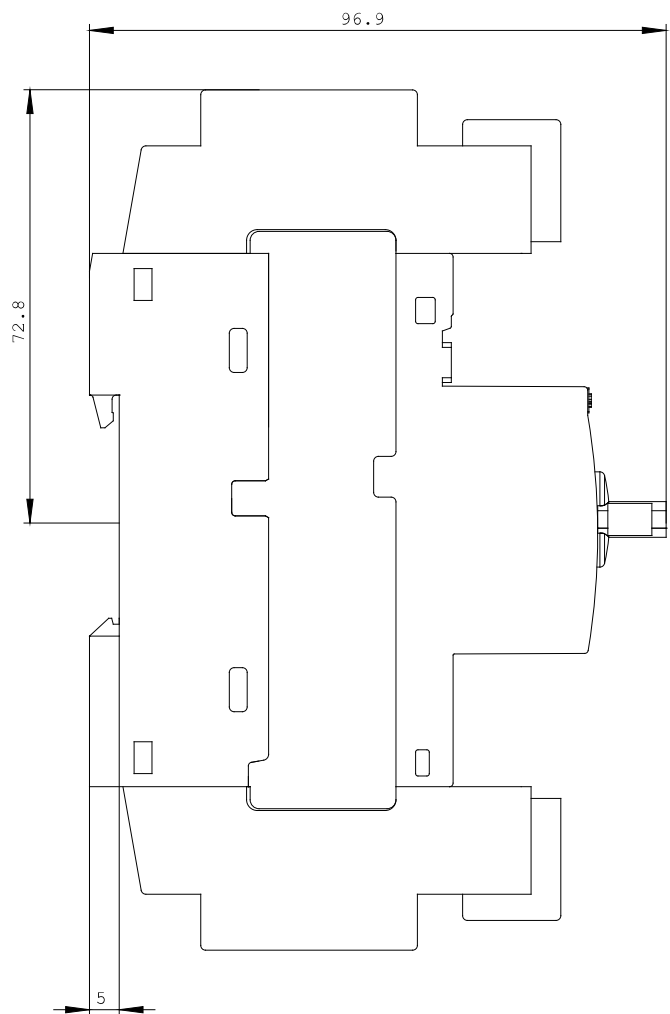
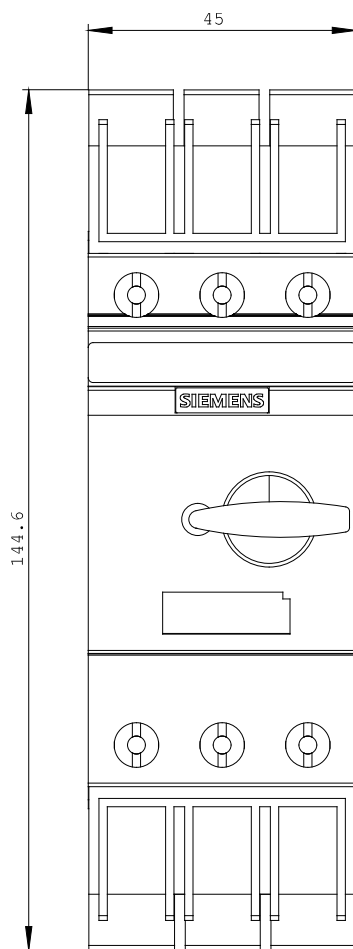
<http://www.siemens.com/industrial-controls/mall>

##### CAX-Online-Generator

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

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

<http://support.automation.siemens.com/WW/view/en/3RV2711-1KD10/all>





last change:

Oct 24, 2011