



CIRCUIT-BREAKER SZ S00, FOR PLANT PROTECTION,
WITH APPROBATION CIRCUIT-BREAKER UL 489. CSA
C22.2 NO.5-02. A-RELEASE 15 A, N-RELEASE 208 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	8.3
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
Type of the driving mechanism / motor drive		No
Design of the operating mechanism		selector switch
Product function		
• overload protection		Yes
• phase disturbance recognition		No

Product component		
• auxiliary switch		No
• undervoltage release mechanism		No
• trip indicator		No
Product extension / optional / motor drive		No
Main circuit:		
Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current / at AC-3 / at 400 V / rated value	A	11.5
Service power / at AC-3		
• at 400 V / rated value	W	5,500
• at 500 V / rated value	W	7,500
• at 690 V / rated value	W	11,000
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum	1/h	15
Arrangement of electrical connectors / for main current circuit		Top and bottom
Service power / at AC-3 / at 230 V / rated value	W	4,000
Continuous current / rated value	A	15
Auxiliary circuit:		
Product extension / auxiliary switch		Yes
Number of NC contacts / for auxiliary contacts / instantaneous switching		0
Number of NO contacts / for auxiliary contacts / instantaneous switching		0
Number of change-over switches / for auxiliary contacts		0
Inputs/ Outputs:		
Number of digital inputs		0
Short-circuit:		
Breaking capacity limit short-circuit current (Icu)		
• at 400 V / rated value	A	55,000
• at 500 V / rated value	A	10,000
• at 690 V / rated value	A	4,000
Breaking capacity limit short-circuit current (Icu) / at 480 AC Y/277 V / according to UL 489 / rated value	A	65,000
Design of the overcurrent release and short-circuit release		thermomagnetic
Installation/mounting/dimensions:		
Built in orientation		any
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Width	mm	45
Height	mm	144
Depth	mm	91
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	50
• downwards	mm	50
• sideways	mm	0
Distance, to be maintained, to earthed part		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	50
• sideways	mm	30

downwards	mm	50
Distance, to be maintained, conductive elements		
forwards	mm	0
backwards	mm	0
upwards	mm	50
downwards	mm	50
sidewards	mm	30

Connections:

Product function	
removable terminal for main circuit	No
removable terminal for auxiliary and control circuit	No
Design of the electrical connection	
for main current circuit	screw-type terminals
Type of the connectable conductor cross-section	
for main contacts	
solid	2x (0.75 ... 2.5 mm²), 2x 4 mm²
finely stranded	
with conductor end processing	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
for AWG conductors / for main contacts	2x (18 ... 14), 2x 12

Certificates/approvals:

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

General Product Approval

☒ CQC	☒ CSA	ROSTEST	☐
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Shipping Approval

☒ ABS (American Bureau of Shipping)	☒ GL (Germanischer Lloyd)	☒ LRS (Lloyds Register of Shipping)	☐
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other

Manufacturer	other	☒ VDE
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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	% 40
with high demand rate / according to SN 31920	% 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

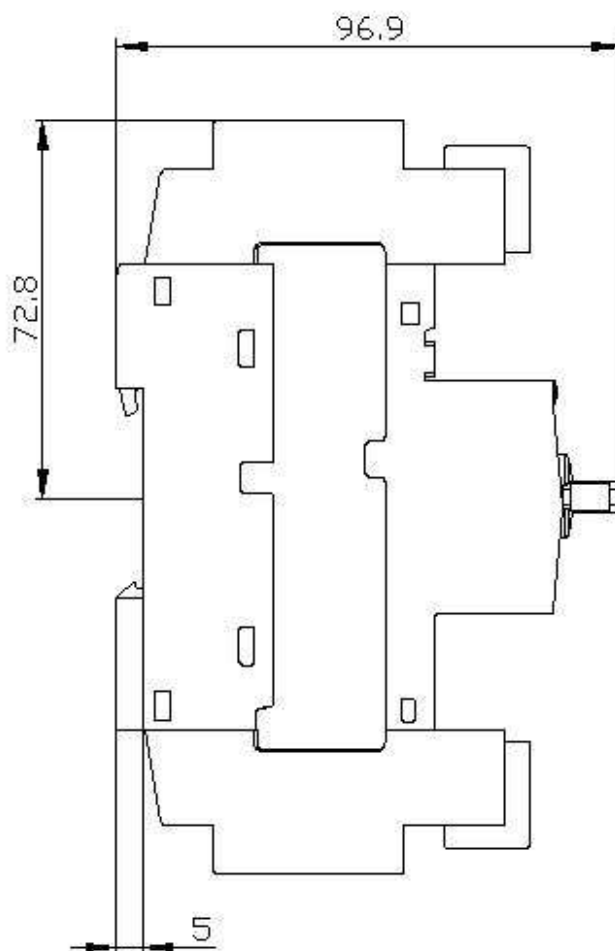
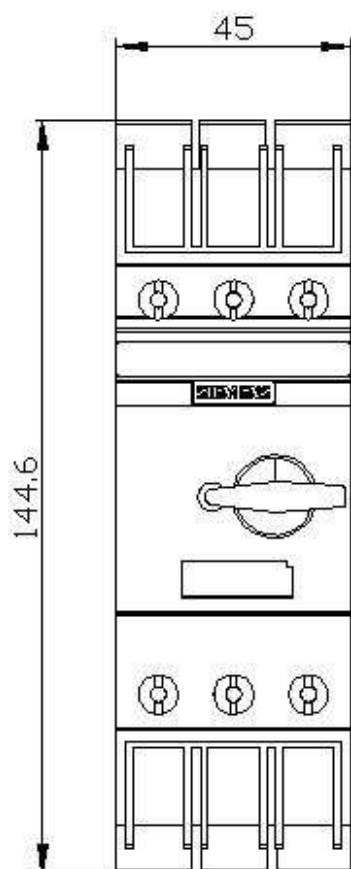
<http://www.siemens.com/cax>

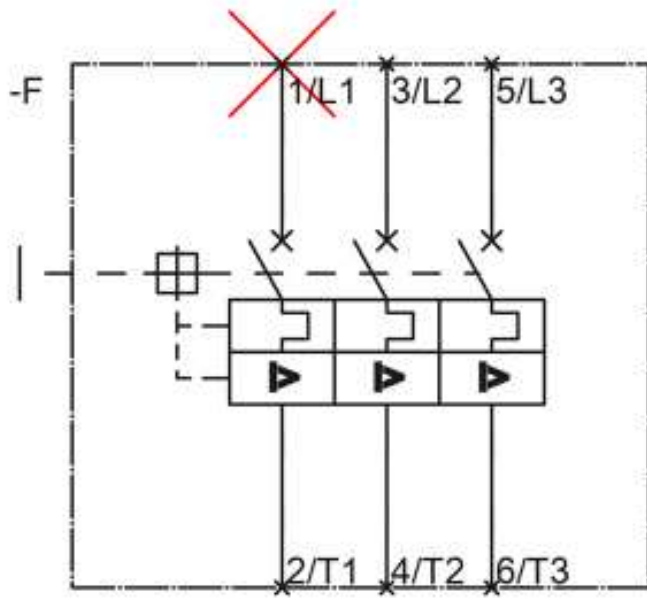
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV2711-4AD10/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2711-4AD10





last change:

Feb 6, 2012