

CIRCUIT-BREAKER SZ S00, FOR STARTER COMBINATION, RATED CURRENT 1A, N-RELEASE 13A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name		SIRIUS
Product designation		3RV2 circuit breaker

General technical data:

Active power loss total typical	W	6
Insulation voltage	V	690
• with degree of pollution 3 Rated value		
Shock resistance		25g / 11 ms
• acc. to IEC 60068-2-27		
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
• of the main contacts typical		100 000
• of the auxiliary contacts typical		100 000
Electrical endurance (switching cycles)		
• typical		100 000
Size of contactor can be combined company-specific		S00
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Equipment marking		
• acc. to DIN EN 81346-2		Q

Main circuit:

Number of poles for main current circuit		3
Operating voltage	V	690
• Rated value		

• at AC-3 Rated value maximum	V	690
Operating frequency Rated value	Hz	50 ... 60
Operating current Rated value	A	1
Operating current		
• at AC-3		
— at 400 V Rated value	A	1
Operating power		
• at AC-3		
— at 230 V Rated value	W	180
— at 400 V Rated value	W	250
— at 500 V Rated value	W	370
— at 690 V Rated value	W	550
Operating frequency		
• at AC-3 maximum	1/h	15

Auxiliary circuit:

Number of NC contacts		
• for auxiliary contacts		0
Number of NO contacts		
• for auxiliary contacts		0
Number of CO contacts		
• for auxiliary contacts		0
Product expansion Auxiliary switch		Yes

Protective and monitoring functions:

Operational short-circuit current breaking capacity (Ics) with AC		
• at 240 V Rated value	kA	100
• at 400 V Rated value	kA	100
• at 500 V Rated value	kA	100
• at 690 V Rated value	kA	100
Maximum short-circuit current breaking capacity (Icu)		
• with AC at 240 V Rated value	kA	100
• with AC at 400 V Rated value	kA	100
• with AC at 500 V Rated value	kA	100
• with AC at 690 V Rated value	kA	100
Breaking capacity short-circuit current (Icn)		
• with 1 current path for DC at 150 V Rated value	kA	10
• with 2 current paths in series for DC at 300 V Rated value	kA	10
• with 3 current paths in series for DC at 450 V Rated value	kA	10
Response value current of the instantaneous short-circuit release	A	13

UL/CSA ratings:

Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	A	1
• at 600 V Rated value	A	1
yielded mechanical performance [hp]		
• for three-phase AC motor at 575/600 V Rated value	metric hp	0.5

Short-circuit:

Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic
Design of the fuse link for IT network for short-circuit protection of the main circuit		
• at 500 V		gL/gG 10 A
• at 690 V		gL/gG 10 A

Installation/ mounting/ dimensions:

mounting position		any
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	mm	97
Width	mm	45
Depth	mm	96
Required spacing		
• with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— at the side	mm	30
— downwards	mm	50
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	30

Connections/ Terminals:

Type of electrical connection • for main current circuit		screw-type terminals
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function • removable terminal for auxiliary and control circuit		No
Type of connectable conductor cross-section • for main contacts — single or multi-stranded — finely stranded with core end processing • for AWG conductors for main contacts		2x (0,75 ... 2,5 mm ²), 2x 4 mm ² 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (18 ... 14), 2x 12
Tightening torque • for main contacts with screw-type terminals	N·m	0.8 ... 1.2
Design of screwdriver shaft		Diameter 5 to 6 mm
Design of the thread of the connection screw • for main contacts		M3

Safety related data:

B10 value with high demand rate acc. to SN 31920		50 000
Proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920	% %	40 40
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	50
T1 value for proof test interval or service life acc. to IEC 61508	y	10
Protection against electrical shock		finger-safe

Mechanical data:

Size of the circuit-breaker		S00
------------------------------------	--	-----

Ambient conditions:

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature • during operation • during storage • during transport	°C °C °C	-20 ... +60 -50 ... +80 -50 ... +80
Relative humidity during operation	%	10 ... 95

Display:

Display version • for switching status		Handle
--	--	--------

Certificates/ approvals:

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



[Special Test Certificate](#)

[Declaration of the Compliance with the order](#)

Test Certificates	Shipping Approval
-------------------	-------------------

[Type Test Certificates/Test Report](#)



Shipping Approval	other
-------------------	-------



[Environmental Confirmations](#)

[Confirmation](#)



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/industrymall>

Cax online generator

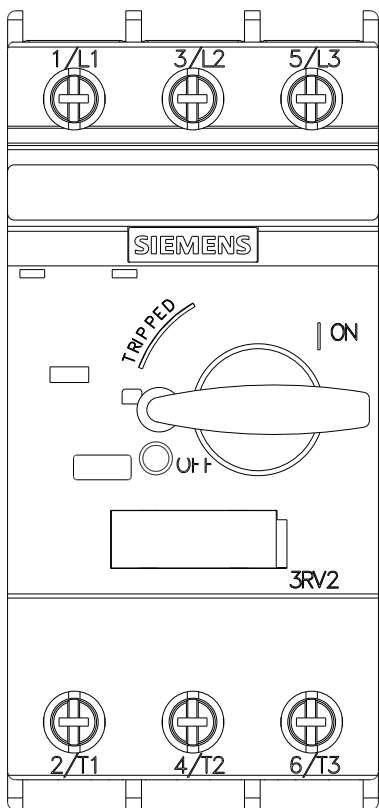
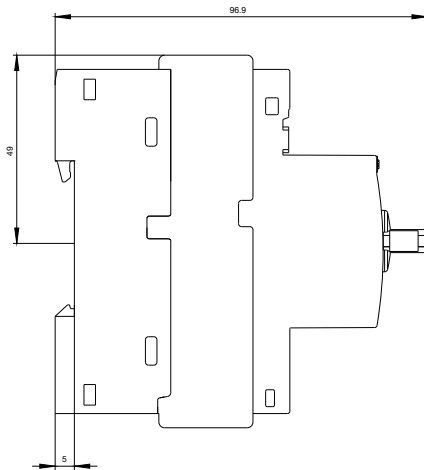
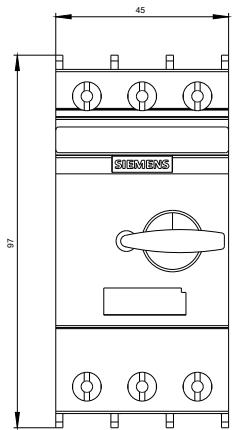
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RV23110JC10>

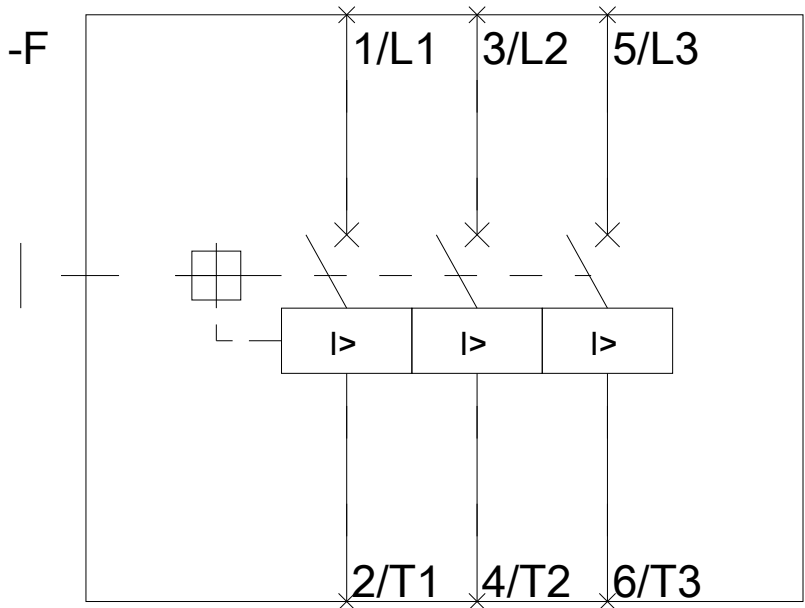
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV23110JC10/all>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RV23110JC10&lang=en





last modified:

11.03.2015