



CIRCUIT-BREAKER SZ S00, FOR STARTER COMBINATION, RATED CURRENT 6.3A, N-RELEASE 82A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name	SIRIUS
Product designation	3RV2 circuit breaker
General technical data:	
Size of contactor can be combined company-specific	S00
Product expansion	Yes
• Auxiliary switch	Yes
Active power loss total typical	6 W
Insulation voltage	690 V
• with degree of pollution 3 Rated value	690 V
Surge voltage resistance Rated value	6 kV
Protection class IP	IP20
• on the front	IP20
• of the terminal	IP20
Mechanical service life (switching cycles)	100 000
• of the main contacts typical	100 000
• of the auxiliary contacts typical	100 000
Electrical endurance (switching cycles)	100 000
• typical	100 000
Ambient conditions:	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	-20 ... +60 °C
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-50 ... +80 °C

Relative humidity during operation	10 ... 95 %
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Main circuit:

Operating voltage	
<ul style="list-style-type: none"> • Rated value • at AC-3 Rated value maximum 	<p>690 V</p> <p>690 V</p>
Operating frequency Rated value	50 ... 60 Hz
Operating current Rated value	6.3 A
Operating current	
<ul style="list-style-type: none"> • at AC-3 — at 400 V Rated value 	<p>6.3 A</p>
Operating power	
<ul style="list-style-type: none"> • at AC-3 — at 230 V Rated value — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value 	<p>1 500 W</p> <p>2 200 W</p> <p>3 000 W</p> <p>4 000 W</p>
Operating frequency	
<ul style="list-style-type: none"> • at AC-3 maximum 	15 1/h

Auxiliary circuit:

Number of NC contacts	
<ul style="list-style-type: none"> • for auxiliary contacts 	0
Number of NO contacts	
<ul style="list-style-type: none"> • for auxiliary contacts 	0
Number of CO contacts	
<ul style="list-style-type: none"> • for auxiliary contacts 	0

Protective and monitoring functions:

Operational short-circuit current breaking capacity (Ics) at AC	
<ul style="list-style-type: none"> • at 240 V Rated value • at 400 V Rated value • at 500 V Rated value • at 690 V Rated value 	<p>100 kA</p> <p>100 kA</p> <p>100 kA</p> <p>4 kA</p>
Maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> • at AC at 240 V Rated value • with AC at 400 V Rated value • at AC at 500 V Rated value • at AC at 690 V Rated value 	<p>100 kA</p> <p>100 kA</p> <p>100 kA</p> <p>6 kA</p>
Breaking capacity short-circuit current (Icn)	
<ul style="list-style-type: none"> • with 1 current path at DC at 150 V Rated value • with 2 current paths in series at DC at 300 V Rated value 	<p>10 kA</p> <p>10 kA</p>

<ul style="list-style-type: none"> with 3 current paths in series at DC at 450 V Rated value 	10 kA
Response value current of the instantaneous short-circuit release	82 A

UL/CSA ratings:

Full-load current (FLA) for three-phase AC motor	
<ul style="list-style-type: none"> at 480 V Rated value 	6.3 A
<ul style="list-style-type: none"> at 600 V Rated value 	6.3 A
yielded mechanical performance [hp]	
<ul style="list-style-type: none"> for single-phase AC motor <ul style="list-style-type: none"> at 110/120 V Rated value at 230 V Rated value for three-phase AC motor <ul style="list-style-type: none"> at 200/208 V Rated value at 220/230 V Rated value at 460/480 V Rated value at 575/600 V Rated value 	0.25 hp 0.5 hp 1 hp 1.5 hp 3 hp 5 hp

Short-circuit:

Design of the short-circuit trip	magnetic
Design of the fuse link for IT network for short-circuit protection of the main circuit	
<ul style="list-style-type: none"> at 400 V 	gL/gG 50 A
<ul style="list-style-type: none"> at 500 V 	gL/gG 40 A
<ul style="list-style-type: none"> at 690 V 	gL/gG 35 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	97 mm
Width	45 mm
Depth	96 mm
Required spacing	
<ul style="list-style-type: none"> with side-by-side mounting <ul style="list-style-type: none"> forwards Backwards upwards downwards at the side for grounded parts <ul style="list-style-type: none"> forwards Backwards 	0 mm 0 mm 50 mm 50 mm 0 mm 0 mm 0 mm

— upwards	50 mm
— at the side	30 mm
— downwards	50 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	30 mm

Connections/ Terminals:

Product function	
• removable terminal for auxiliary and control circuit	No
Type of electrical connection	
• for main current circuit	screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-section	
• for main contacts	
— single or multi-stranded	2x (0,75 ... 2,5 mm ²), 2x 4 mm ²
— finely stranded with core end processing	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
• for AWG conductors for main contacts	2x (18 ... 14), 2x 12
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	40 %
• with high demand rate acc. to SN 31920	40 %
T1 value for proof test interval or service life acc. to IEC 61508	10 y




Mechanical data:

Size of the circuit-breaker	S00
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Display:

Display version	
• for switching status	Handle

Certificates/ approvals:

General Product Approval		Declaration of Conformity	Test Certificates
	KTL		
CSA		EG-Konf.	Typprüfbescheinigung/Werkszeugnis spezielle Prüfbescheinigungen

Test Certificates	Shipping Approval				
Werksbescheinigung					
gen	ABS	BUREAU VERITAS	DNV	GL	LRS

Shipping Approval	other			
			Bestätigungen	Umweltbestätigung
PRS	RINA	RMRS		
				VDE

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

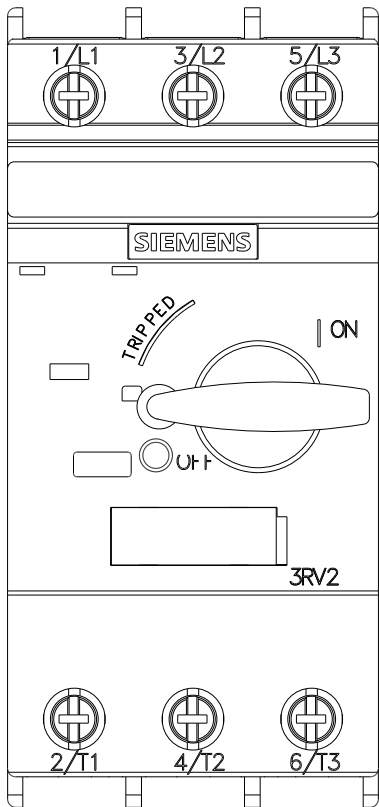
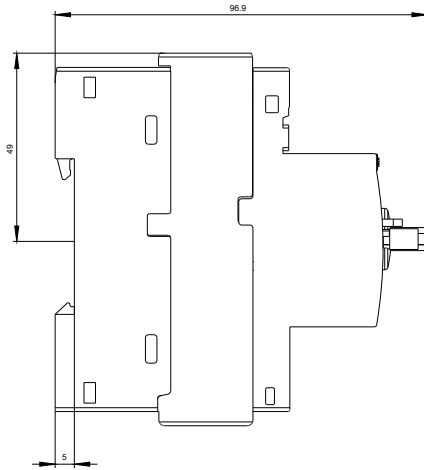
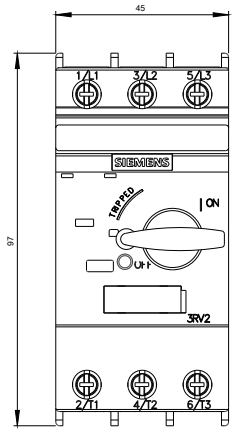
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RV23111GC10>

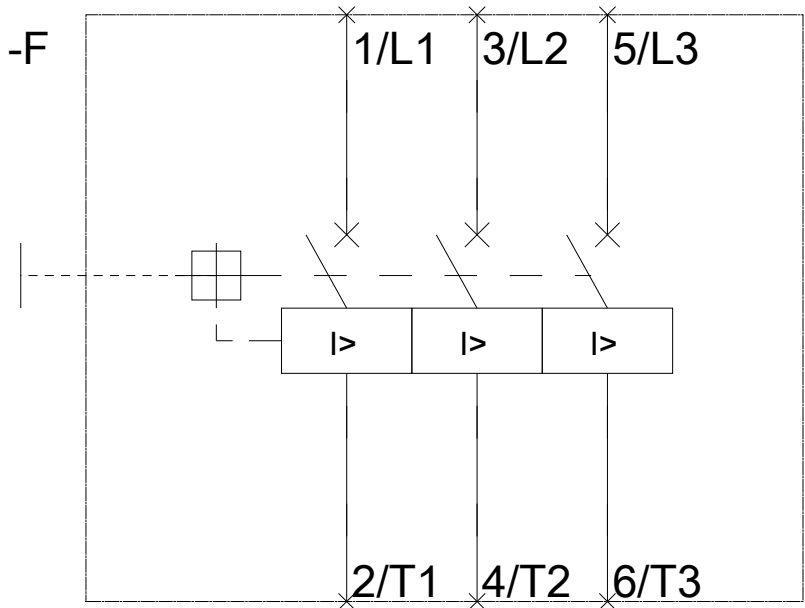
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RV23111GC10>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RV23111GC10&lang=en





last modified:

29.06.2015