SIEMENS

Data sheet

3RV2311-1AC10

CIRCUIT-BREAKER SZ S00, FOR STARTER COMBINATION, RATED CURRENT 1.6A, N-RELEASE 21A, SCREW CONNECTION, STANDARD SW. CAPACITY



product brandname	SIRIUS
Product designation	Circuit breaker
Design of the product	For starter combinations
Product type designation	3RV2
General technical data	
Size of the circuit-breaker	S00
Size of contactor can be combined company-specific	S00, S0
Product extension	
 Auxiliary switch 	Yes
Power loss [W] total typical	6 W
Insulation voltage with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 in networks with grounded star point between main and auxiliary circuit 	400 V
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Protection class IP	

• on the front	IP20
• of the terminal	IP20
Shock resistance	
• acc. to IEC 60068-2-27	25g / 11 ms
Mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
Electrical endurance (switching cycles)	
• typical	100 000
Certificate of suitability relating to ATEX	on request
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	Q
Ambient conditions	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
 during operation 	-20 +60 °C
• during storage	-50 +80 °C
• during transport	-50 +80 °C
Relative humidity during operation	10 95 %
Main circuit	
Number of poles for main current circuit	3
Operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	1.6 A
Operating current	
• at AC-3	
— at 400 V rated value	1.6 A
Operating power	
• at AC-3	
— at 230 V rated value	250 W
— at 400 V rated value	550 W
— at 500 V rated value	750 W
— at 690 V rated value	1 100 W
Operating frequency	
• at AC-3 maximum	15 1/h
Auxiliary circuit	
Auxiliary circuit Number of NC contacts	
	0

Number of NO contacts	
for auxiliary contacts	0
Number of CO contacts	•
for auxiliary contacts	0
	ů –
Protective and monitoring functions	
Operational short-circuit current breaking capacity	
(Ics) at AC	
• at 240 V rated value	100 kA
• at 400 V rated value	100 kA
• at 500 V rated value	100 kA
• at 690 V rated value	100 kA
Maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	100 kA
• at AC at 500 V rated value	100 kA
• at AC at 690 V rated value	100 kA
Breaking capacity short-circuit current (Icn)	
• at 1 current path at DC at 150 V rated value	10 kA
 with 2 current paths in series at DC at 300 V 	10 kA
rated value	
 with 3 current paths in series at DC at 450 V 	10 kA
rated value	
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	1.6 A
• at 600 V rated value	1.6 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	0.1 hp
 for three-phase AC motor 	
— at 460/480 V rated value	0.75 hp
— at 575/600 V rated value	0.75 hp
Short-circuit protection	
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 20 A
• at 690 V	gL/gG 16 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	
• with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	0 mm
 for grounded parts 	
— forwards	0 mm
— Backwards	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 	No
circuit	
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-sections	
 for main contacts 	
— single or multi-stranded	2x (0,75 2,5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG conductors for main contacts 	2x (18 14), 2x 12
Tightening torque	
 for main contacts with screw-type terminals 	0.8 1.2 N·m
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 3 	31920	5 000		
Proportion of dangerous failures		-		
• with low demand rate acc. to SN 31920		50 %		
• with high demand rate acc. to SN 31920		50 %		
Failure rate [FIT]				
• with low demand rate acc. to SN 3	1920	50 FIT		
T1 value for proof test interval or service IEC 61508	e life acc. to	10 y		
Display version		-		
 for switching status 		Handle		
Certificates/approvals				
General Product Approval				Declaration of Conformity
	(8)			
		Approval	EHC	EG-Konf.
Test Certificates	Shipping A	Approval	LIIL	EG-Konf.
	AICAN BUS	Approval	L IIIL Lloyd's Kegister LRS	EG-Konf.
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Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

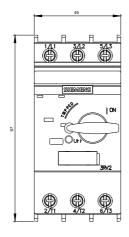
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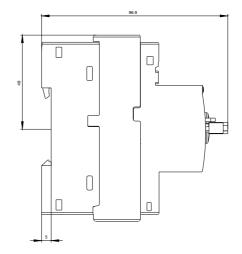
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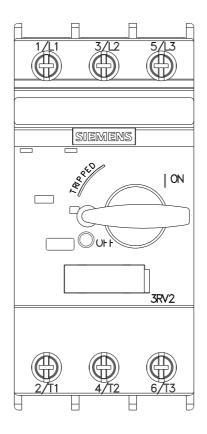
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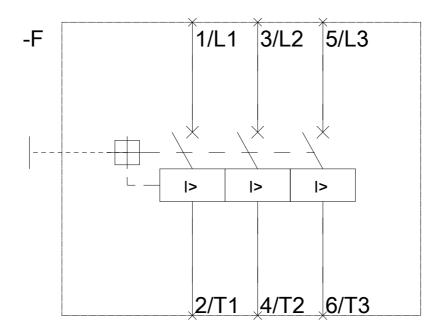
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-1AC10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-1AC10&lang=en









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