SIEMENS

Data sheet 3RV2311-4AC10

CIRCUIT-BREAKER SZ S00, FOR STARTER COMBINATION, RATED CURRENT 16A, N-RELEASE 208A, 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	7 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
 in networks with grounded star point between main and auxiliary circuit 	400 V
Protection class IP	

• on the front	IP20
of the terminal	IP20
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
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	Q
Ambient conditions	
Ambient temperature	
during operation	-20 +60 °C
during storage	-50 +80 °C
during storage during transport	-50 +80 °C
• during transport	50 m 750 G
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	16 A
Operating current	
• at AC-3	
— at 400 V rated value	16 A
Operating power	
• at AC-3	
— at 230 V rated value	4 000 W
— at 400 V rated value	7 500 W
— at 500 V rated value	7 500 W
— at 690 V rated value	11 000 W
Operating frequency	
• at AC-3 maximum	15 1/h
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 function	
 Ground fault detection 	No
Phase failure detection	No
Operational short-circuit current breaking capacity	
(Ics) at AC	
● at 240 V rated value	100 kA
● at 400 V rated value	30 kA
● at 500 V rated value	5 kA
● at 690 V rated value	2 kA
Maximum short-circuit current breaking capacity (Icu)	
● at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	55 kA
• at AC at 500 V rated value	10 kA
• at AC at 690 V rated value	4 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	16 A
• at 600 V rated value	16 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for three-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
Short-circuit protection	
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 240 V	gL/gG 80 A
● at 400 V	gL/gG 63 A
● at 500 V	gL/gG 50 A
● at 690 V	gL/gG 40 A

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
onnections/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-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
	Diameter 5 to 6 mm

Safety related data	
B10 value	
 with high demand rate acc. to SN 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 31920 	50 FIT
T1 value for proof test interval or service life acc. to	10 y
IEC 61508	
Display version	
for switching status	Handle

Certificates/approvals

General Product Approval

Declaration of Conformity











Test Certificates

Shipping Approval

Type Test
Certificates/Test
Report

Special Test Certificate





KC





Shipping Approval

other





Confirmation

Environmental Confirmations



Miscellaneous

Railway

Vibration and Shock

Further information

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

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

Industry Mall (Online ordering system)

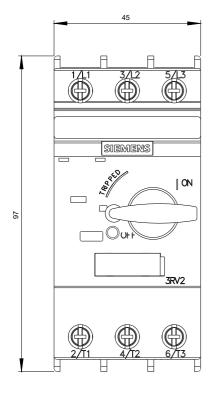
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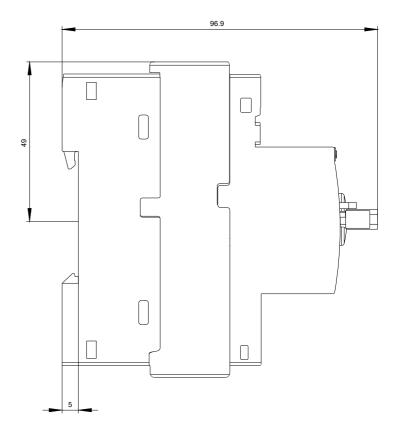
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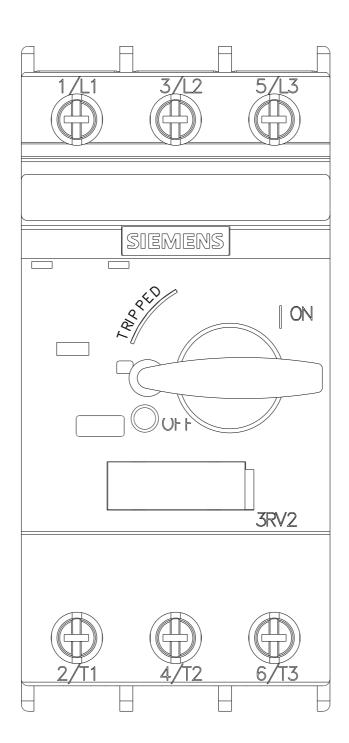
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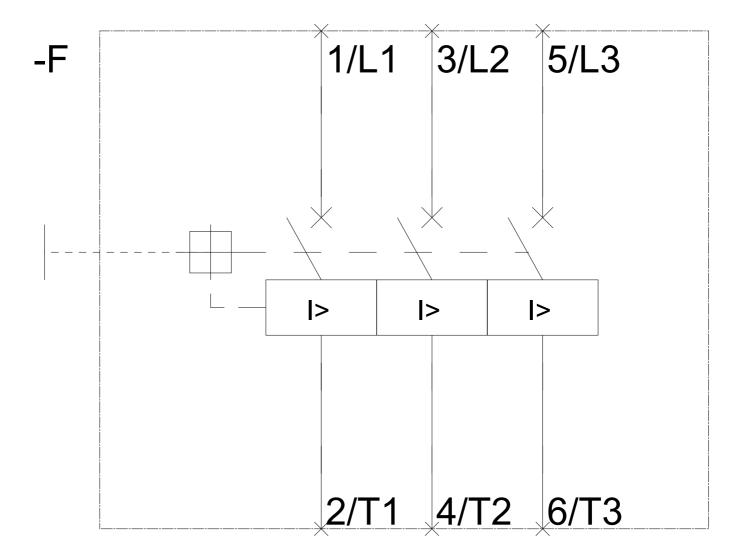
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-4AC10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-4AC10&lang=en









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