SIEMENS

Data sheet 3RV2321-1GC10

CIRCUIT-BREAKER SZ S0, FOR STARTER COMBINATION, RATED CURRENT 6.3A, N-REL. 82A SCREW CONNECTION, STANDARD SW. CAPACITY



Figure similar

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	S0
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	690 V
value	
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 in networks with grounded star point between 	400 V
main and auxiliary circuit	
 in networks with grounded star point between 	400 V
main and auxiliary circuit	

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 transport	-50 +80 °C
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	6.3 A
Operating current	
• at AC-3	
— at 400 V rated value	6.3 A
Operating power	
• at AC-3	
— at 230 V rated value	1 500 W
— at 400 V rated value	2 200 W
— at 500 V rated value	3 000 W
— at 690 V rated value	4 000 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

• for auxiliary contacts

0

Protective and monitoring functions	
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	100 kA
• at 500 V rated value	100 kA
• at 690 V rated value	4 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	6 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 rated value 	10 kA
 with 3 current paths in series at DC at 450 V rated value 	10 kA
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
● at 480 V rated value	6.3 A
● at 600 V rated value	6.3 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.5 hp
• for three-phase AC motor	
— at 200/208 V rated value	1 hp
— at 220/230 V rated value	1.5 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
Short-circuit protection	5 hp
Short-circuit protection Product function Short circuit protection	Yes
Short-circuit protection	
Short-circuit protection Product function Short circuit protection Design of the short-circuit trip Installation/ mounting/ dimensions	Yes
Short-circuit protection Product function Short circuit protection Design of the short-circuit trip	Yes

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	

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-sections	
• for main contacts	
— single or multi-stranded	2x (1 2,5 mm²), 2x (2,5 10 mm²)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
 at AWG conductors for main contacts 	2x (16 12), 2x (14 8)
Tightening torque	
 for main contacts with screw-type terminals 	2 2.5 N·m
Design of screwdriver shaft	Diameter 5 to 6 mm

5 000

B10 value

Safety related data

• with high demand rate acc. to SN 31920

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 IEC 61508	10 y
Display version	
• for switching status	Handle

Certificates/approvals

General Product Approval

Declaration of Conformity











Test Certificates

Shipping Approval

Typprüfbescheinigu ng/Werkszeugnis

spezielle Prüfbescheinigunge

n





KC





Shipping Approval

other





Bestätigungen

Umweltbestätigung



Sonstige

Railway

Schwingen / Schocken

Further information

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

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

Industry Mall (Online ordering system)

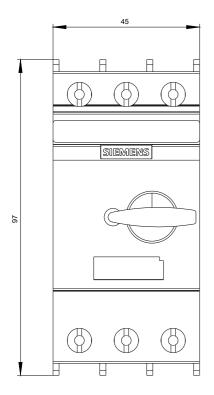
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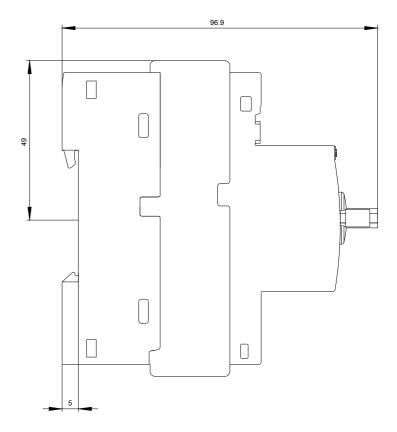
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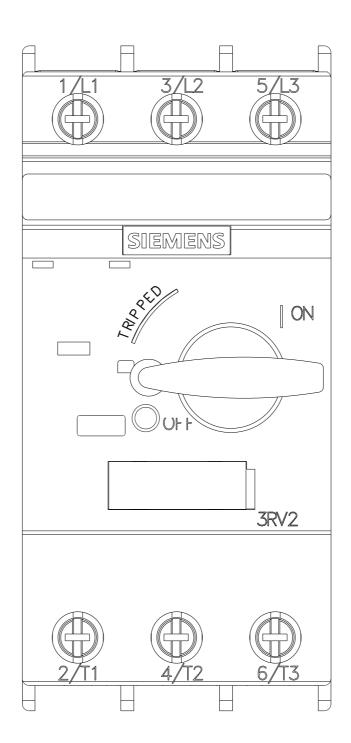
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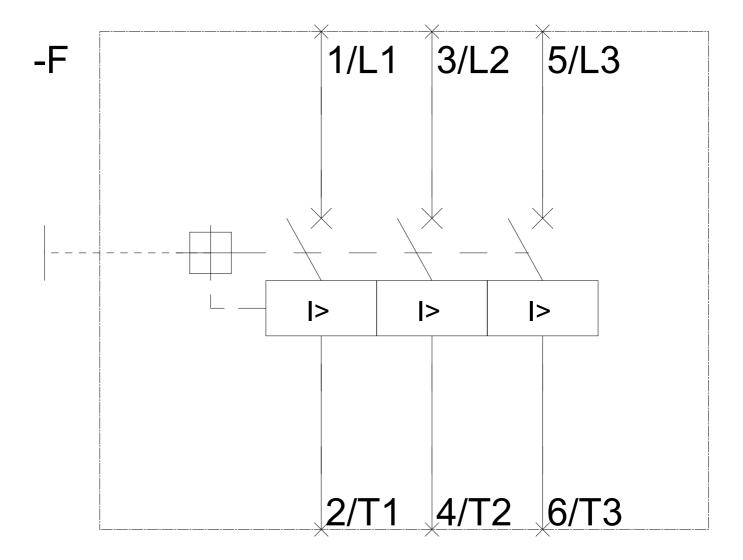
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-1GC10









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