SIEMENS

Data sheet

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3RV2311-1FC20

CIRCUIT-BREAKER SZ S00, FOR STARTER COMBINATION, RATED CURRENT 5A, N-RELEASE 65A, SPRING-L. 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	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	5 A
Operating current	
● at AC-3	
— at 400 V rated value	5 A
Operating power	
● at AC-3	
— at 230 V rated value	1 100 W
— at 400 V rated value	2 200 W
— at 500 V rated value	2 200 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
Number of CO contacts	
 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	5 A
• at 600 V rated value	5 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.167 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 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	3 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 400 V	gL/gG 32 A
• at 500 V	gL/gG 32 A
● at 690 V	gL/gG 25 A

Mounting position	any	
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715	
Height	106 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 circuit 	No	
Type of electrical connection		
 for main current circuit 	spring-loaded 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 (0,5 4 mm²)	
— finely stranded with core end processing	2x (0.5 2.5 mm²)	
 finely stranded without core end processing 	2x (0.5 2.5 mm²)	
 at AWG conductors for main contacts 	2x (20 12)	
Design of screwdriver shaft	Diameter 3 mm	

afety related data				
310 value				
 with high demand rate acc. to SN 	31920	5 000		
roportion of dangerous failures				
 with low demand rate acc. to SN 3 	31920	50 %		
 with high demand rate acc. to SN 	31920	50 %		
ailure rate [FIT]				
 with low demand rate acc. to SN 3 	31920	50 FIT		
1 value for proof test interval or service EC 61508	e life acc. to	10 y		
isplay version				
 for switching status 		Handle		
ertificates/approvals				
General Product Approval				Declaration o Conformity
			FHI	
CCC CSA			EHC	EG-Konf.
Test Certificates	Shipping A	Approval	LHL	EG-Konf.
	Shipping A ABS	Approval	LRS	EG-Konf.
Test CertificatesType TestSpecial TestCertificates/TestCertificate	ANCAN BURE * OF SHIPPURS	Approval	Lloyd's Kegister	
Test CertificatesType Test Certificates/TestSpecial Test CertificateReportCertificate	ABS	BUREAU VERITAS	Lloyd's Kegister	

urther information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

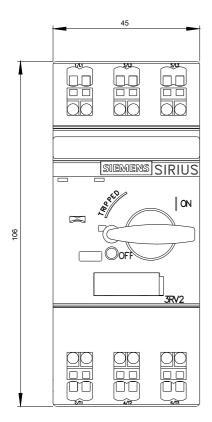
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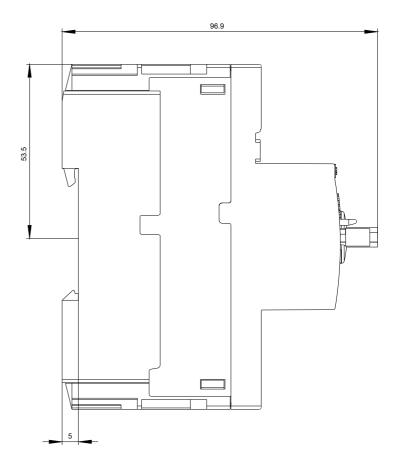
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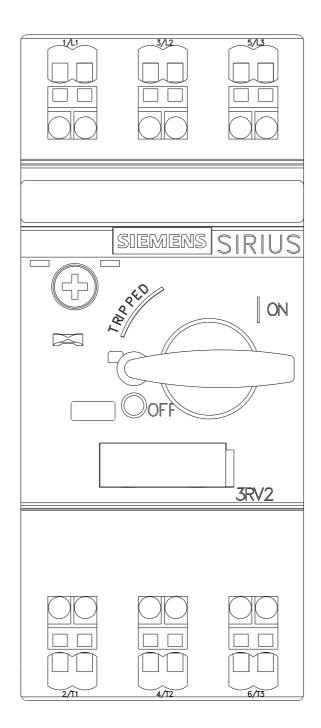
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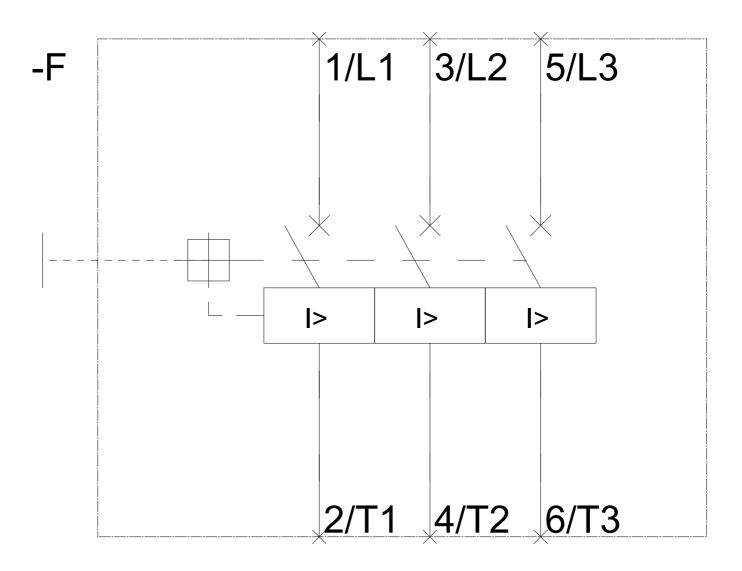
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-1FC20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-1FC20&lang=en









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