SIEMENS

Data sheet

3RV2111-1DA10

CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, W. OVERLOAD RELAY FUNCTION A-RELEASE 2.2...3.2A, N-RELEASE42A, SCREW CONNECTION, STANDARD SW. CAPACITY



product brandname	SIRIUS			
Product designation	Circuit breaker			
Design of the product	For motor protection with overload relay function			
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			
 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
Type of protection	Increased safety
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
Temperature compensation	-20 +60 °C
Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current- dependent overload release	2.2 3.2 A
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	3.2 A
Operating current	
● at AC-3	
— at 400 V rated value	3.2 A
Operating power	
● at AC-3	
— at 230 V rated value	550 W
— at 400 V rated value	1 100 W
— at 500 V rated value	1 500 W
— at 690 V rated value	2 200 W
Operating frequency	
● at AC-3 maximum	15 1/h
Auxiliary circuit	
Design of the auxiliary switch	laterally
Number of NC contacts	
 for auxiliary contacts 	0
Number of NO contacts	

 for auxiliary contacts 	0
Number of CO contacts	
 for auxiliary contacts 	0
Operating current of auxiliary contacts at AC-15	
• at 24 V	1.5 A
• at 230 V	1.5 A
Operating current of auxiliary contacts at DC-13	
• at 24 V	1 A
Protective and monitoring functions	
Product function	
 Ground fault detection 	No
 Phase failure detection 	Yes
Trip class	CLASS 10
Design of the overload release	thermal
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	10 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	10 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
JL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	3.2 A
• at 600 V rated value	3.2 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.1 hp
— at 230 V rated value	0.25 hp

— at 220/230 V rated value	0.75 hp		
	0.75 hp		
— at 460/480 V rated value	1.5 hp		
— at 575/600 V rated value	2 hp		
Contact rating of auxiliary contacts according to UL	C600 / R300		
Short-circuit protection			
Product function Short circuit protection	Yes		
Design of the short-circuit trip	magnetic		
Design of the fuse link			
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 6 A, quick: 10 A		
Design of the fuse link for IT network for short-circuit protection of the main circuit			
• at 400 V	gL/gG 25 A		
• at 500 V	gL/gG 32 A		
• at 690 V	gL/gG 25 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	65 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 	screw-type terminals			
 for auxiliary and control 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			
Type of connectable conductor cross-sections				
 for auxiliary contacts 				
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)			
Tightening torque				
 for main contacts with screw-type terminals 	0.8 1.2 N·m			
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m			
Design of screwdriver shaft	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 IEC 61508	10 у			
Display version				
• for switching status	Handle			
Certificates/approvals				

General Produ	ct Approval				Declaration of Conformity
	CSA		<u>KC</u>	EHC	EG-Konf.
Test Certificate	Test Certificates Shipping Approval				
<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	Special Test Certificate	ABS	BUREAU VERITAS	Lloyd's Register IRS	PRS
Shipping Appro	oval	other			
RINA	RMRS	Confirmation	Environmental Confirmations	VDE	Miscellaneous
Railway					
Vibration and Shock	(

Further information

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

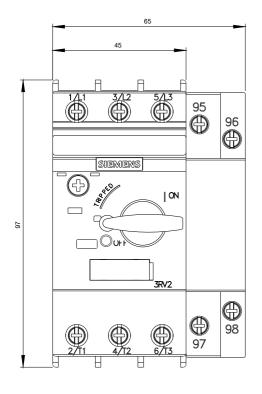
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2111-1DA10

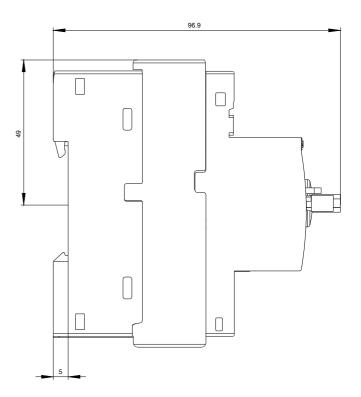
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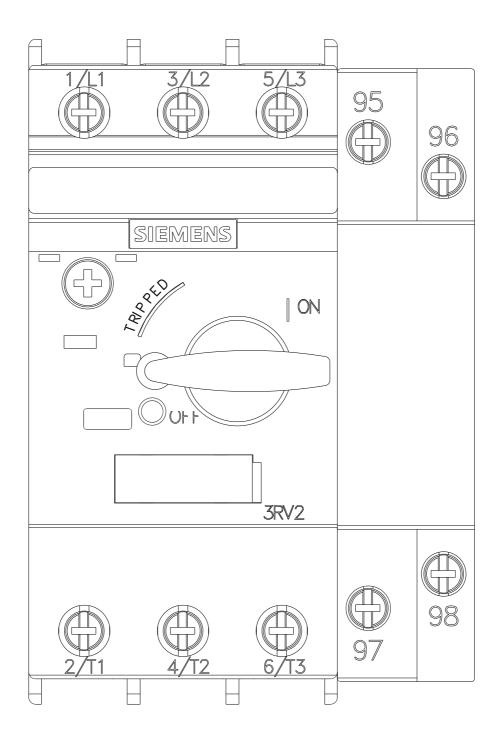
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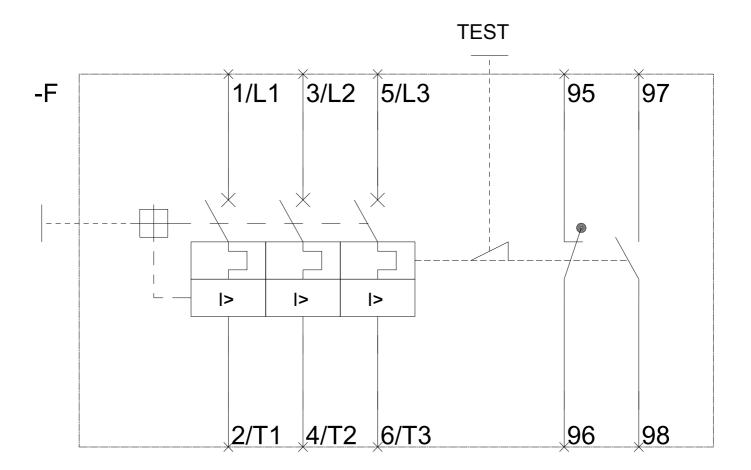
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-1DA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2111-1DA10&lang=en









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