SIEMENS

Data sheet

3RV2411-4AA10

CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROT. A-RELEASE 10...16A, N-RELEASE 286A, SCREW CONNECTION, STANDARD SW. CAPACITY



product brandname	SIRIUS		
Product designation	Circuit breaker		
Design of the product	For transformer protection		
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	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
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	10 16 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	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
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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	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 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	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

nstallation/ 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		
Nidth	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 	No		

circuit	NU
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
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	es	Shipping Appro	oval		
Type Test Certificates/Test <u>Report</u>	Special Test Certificate	ABS	BUREAU VERITAS	Lloyd's Register LRS	PRS
Shipping Appro	oval	other			
RINA	RMRS	Confirmation	Environmental Confirmations	VDE	Miscellaneous
Railway					
Vibration and Shock	<u><</u>				

Further information

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

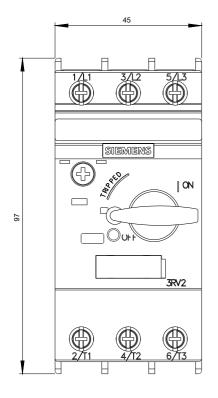
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2411-4AA10

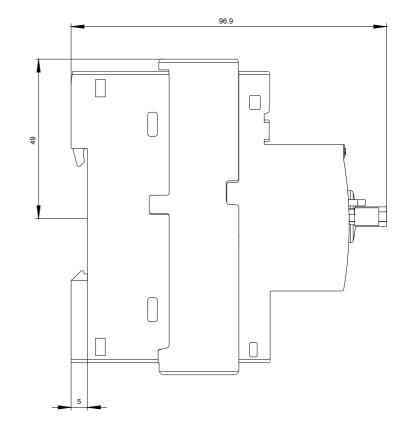
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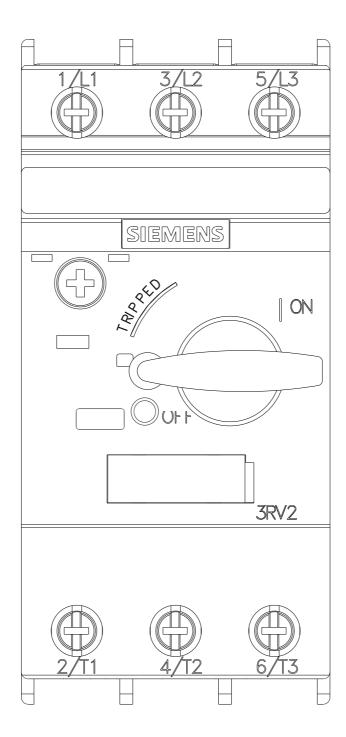
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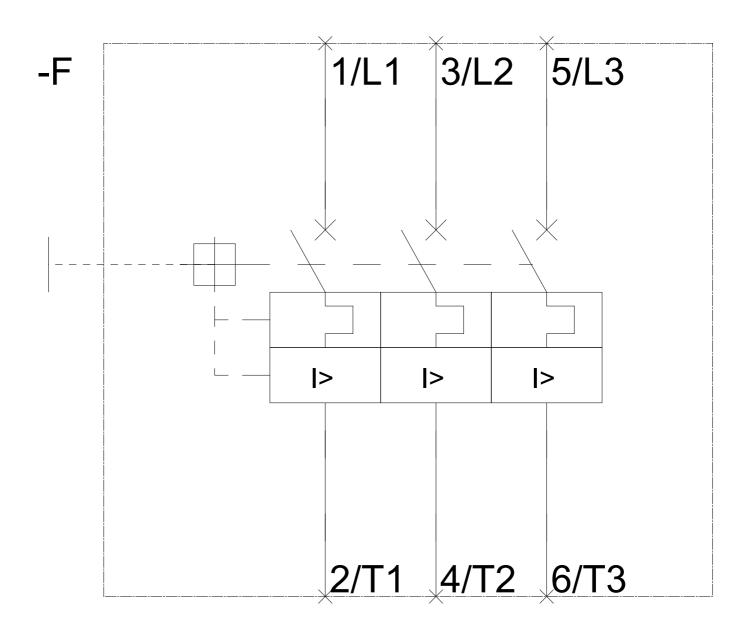
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-4AA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-4AA10&lang=en









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