SIEMENS

Data sheet 3RV2111-1AA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, W. OVERLOAD RELAY FUNCTION A-RELEASE 1.1...1.6A, N-RELEASE21A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name	SIRIUS		
Product designation	3RV2 circuit breaker		
General technical data:			
Size of contactor can be combined company-specific	S00		
Product expansion			
Auxiliary switch	Yes		
Active power loss total typical	6 W		
Insulation voltage			
 with degree of pollution 3 Rated value 	690 V		
Surge voltage resistance Rated value	6 kV		
Protection class IP			
• on the front	IP20		
of the terminal	IP20		
Mechanical service life (switching cycles)			
 of the main contacts typical 	100 000		
 of the auxiliary contacts typical 	100 000		
Electrical endurance (switching cycles)			
• typical	100 000		
Temperature compensation	-20 +60 °C		
Type of protection	Increased safety		

2 000 m

-20 ... +60 °C

maximum

Ambient temperature

• during operation

Installation altitude at height above sea level

during storage	-50 +80 °C
during transport	-50 +80 °C
Relative humidity during operation	10 95 %

Main circuit:				
Adjustable response value current of the current-	1.1 1.6 A			
dependent overload release				
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	1.6 A			
Operating current				
• at AC-3				
— at 400 V Rated value	1.6 A			
Operating power				
● at AC-3				
— at 230 V Rated value	250 W			
— at 400 V Rated value	550 W			
— at 500 V Rated value	750 W			
— at 690 V Rated value	1 100 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
Design of the auxiliary switch	laterally
Operating current of the auxiliary contacts at AC-15	
● at 24 V	1.5 A
● at 230 V	1.5 A
Operating current of the auxiliary contacts at DC-13	
● at 24 V	1 A

Protective and monitoring functions:			
Trip class	CLASS 10		
Design of the overload circuit breaker	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	100 kA
Maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V Rated value	100 kA
• with AC at 400 V Rated value	100 kA
• at AC at 500 V Rated value	100 kA
• at AC at 690 V Rated value	100 kA
Breaking capacity short-circuit current (Icn)	
• with 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
Response value current of the instantaneous short- circuit release	21 A
JL/CSA ratings:	
Full-load current (FLA) for three-phase AC motor	

UL/CSA ratings:	
Full-load current (FLA) for three-phase AC motor	
• at 480 V Rated value	1.6 A
• at 600 V Rated value	1.6 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V Rated value	0.1 hp
 for three-phase AC motor 	
— at 460/480 V Rated value	0.75 hp
— at 575/600 V Rated value	0.75 hp
Contact rating of the auxiliary contacts acc. to UL	C600 / R300

Short-circuit:		
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 500 V	gL/gG 20 A	
● at 690 V	gL/gG 16 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					
	No				
 removable terminal for auxiliary and control 	INO				
 removable terminal for auxiliary and control circuit 	INU				
-	INO				
circuit	screw-type terminals				
Type of electrical connection					
circuit Type of electrical connection • for main current circuit • for auxiliary and control current circuit Arrangement of electrical connectors for main current	screw-type terminals				
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• for main contacts

МЗ

• of the auxiliary and control contacts

М3

Safety related data:				
B10 value with high demand rate acc. to SN 31920	50 000			
Proportion of dangerous failures				
 with low demand rate acc. to SN 31920 	40 %			
• with high demand rate acc. to SN 31920	40 %			
T1 value for proof test interval or service life acc. to IEC 61508	10 y			

		nar		

Size of the circuit-breaker S00

Display:

Display version

for switching status

Handle

Certificates/ approvals:

General Product Approval			Declaration of Conformity	Test Certificates	
S	<u>KTL</u>	EHE	EG-Konf.	spezielle Prüfbescheinigunge <u>n</u>	Typprüfbescheinigu ng/Werkszeugnis

Shipping Approval













Shipping Approval

other





Bestätigungen

Umweltbestätigung



Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV21111AA10

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

 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RV21111AA10}}$



