SIEMENS

Data sheet 3RV2111-0KA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, W. OVERLOAD RELAY FUNCTION A-RELEASE 0.9...1.25A, N-RELEASE16A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

Comment to the size of details		
General technical data:		
Active power loss total typical	W	6
Insulation voltage		
 with degree of pollution 3 Rated value 	V	690
Shock resistance		
• acc. to IEC 60068-2-27		25g / 11 ms
Surge voltage resistance Rated value	kV	6
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	°C	-20 + 60
Size of contactor can be combined company-specific		S00
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Type of protection		Increased safety
Equipment marking		
• acc. to DIN EN 81346-2		Q

3	
	3

Adjustable response value current of the current-	Α	0.9 1.25
dependent overload release		
Operating voltage		
Rated value	V	690
 at AC-3 Rated value maximum 	V	690
Operating frequency Rated value	Hz	50 60
Operating current Rated value	Α	1.25
Operating current		
• at AC-3		
— at 400 V Rated value	Α	1.25
Operating power		
• at AC-3		
— at 230 V Rated value	W	180
— at 400 V Rated value	W	370
— at 500 V Rated value	W	370
— at 690 V Rated value	W	750
Operating frequency		
• at AC-3 maximum	1/h	15
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
Product expansion Auxiliary switch		Yes
Design of the auxiliary switch		laterally
Operating current of the auxiliary contacts at AC-15		

• for auxiliary contacts		0
Number of CO contacts		
• for auxiliary contacts		0
Product expansion Auxiliary switch		Yes
Design of the auxiliary switch		laterally
Operating current of the auxiliary contacts at AC-15		
● at 24 V	Α	1.5
● at 230 V	Α	1.5
Operating current of the auxiliary contacts at DC-13	_	
● at 24 V	Α	1
Protective and monitoring functions:		

Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker		thermal
Operational short-circuit current breaking capacity		
(Ics) with AC		
• at 240 V Rated value	kA	100
• at 400 V Rated value	kA	100
• at 500 V Rated value	kA	100
● at 690 V Rated value	kA	100
Maximum short-circuit current breaking capacity (Icu)		

 with AC at 240 V Rated value 	kA	100
 with AC at 400 V Rated value 	kA	100
● with AC at 500 V Rated value	kA	100
● with AC at 690 V Rated value	kA	100
Breaking capacity short-circuit current (Icn)		
• with 1 current path for DC at 150 V Rated value	kA	10
 with 2 current paths in series for DC at 300 V 	kA	10
Rated value		
 with 3 current paths in series for DC at 450 V 	kA	10
Rated value		
Response value current of the instantaneous short- circuit release	Α	16
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	A	1.25
● at 600 V Rated value	Α	1.25
yielded mechanical performance [hp]		
• for three-phase AC motor at 460/480 V Rated	metric	0.5
value	hp	0.5
 for three-phase AC motor at 575/600 V Rated value 	metric hp	0.5
Contact rating of the auxiliary contacts acc. to UL		C600 / R300
contact raining of the dustinary contacts acci. to of		0000711000
Short-circuit:		
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 500 V		gL/gG 16 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	mm	97
Width	mm	65
Depth	mm	96
Depth Required spacing	mm	96
	mm	96

— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— at the side	mm	30
— downwards	mm	50
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	30

Connections/ Terminals:		
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
Product function		
 removable terminal for auxiliary and control circuit 		No
Type of connectable conductor cross-section		
• 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)
• for AWG conductors for main contacts		2x (18 14), 2x 12
• 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)
• for AWG conductors for auxiliary contacts		2x (20 16), 2x (18 14)
Tightening torque		
• for main contacts with screw-type terminals	N·m	0.8 1.2
Design of screwdriver shaft		Diameter 5 to 6 mm
Design of the thread of the connection screw		
• for main contacts		M3
 of the auxiliary and control contacts 		M3

Safety related data:

D40 value with high demand rate and to CN 24000		50 000	
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	
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	50	
T1 value for proof test interval or service life acc. to IEC 61508	У	10	
Protection against electrical shock		finger-safe	
Mechanical data:			
Size of the circuit-breaker		S00	
Ambient conditions:			
Installation altitude at height above sea level	m	2 000	
maximum			
Ambient temperature			
 during operation 	°C	-20 + 60	
during storage	°C	-50 + 80	
 during transport 	°C	-50 + 80	
Relative humidity during operation	%	10 95	
Display:			
Display version			
		Handle	

General Product Approval

Declaration of Conformity

Test Certificates









Special Test Certificate Type Test
Certificates/Test
Report

Shipping Approval













Shipping Approval

other



Confirmation

Environmental Confirmations

VDE VDE

other

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=3RV21110KA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV21110KA10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV21110KA10&lang=en



