SIEMENS

Data sheet 3RV2011-0AA25



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 0.11...0.16A, N-RELEASE2.1A SPRING-L. CONNECTION STANDARD SW. CAPACITY W. TRANSVERSE AUX. SWITCH 1NO+1NC

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:		
Active power loss total typical	W	5
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

Main circuit:	
Number of poles for main current circuit	3

Adjustable response value current of the current-	Α	0.11 0.16	
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	0.16	
Operating current			
● at AC-3			
— at 400 V Rated value	Α	0.16	
Operating power			
• at AC-3			
— at 230 V Rated value	W	20	
— at 400 V Rated value	W	40	
— at 500 V Rated value	W	60	
— at 690 V Rated value	W	60	
Operating frequency			
• at AC-3 maximum	1/h	15	
Auxiliary circuit:			
Number of NC contacts			
 for auxiliary contacts 		1	
Number of NO contacts			
• for auxiliary contacts		1	
Number of CO contacts			
• for auxiliary contacts		0	
Product expansion Auxiliary switch		Yes	
Design of the auxiliary switch		transverse	
Operating current of the auxiliary contacts at AC-15			
● at 24 V	Α	2	
• at 120 V	Α	0.5	
● at 125 V	Α	0.5	
• at 230 V	Α	0.5	
Operating current of the auxiliary contacts at DC-13			
• at 24 V	Α	1	
● at 60 V	Α	0.15	
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	
		100	

• at 400 V Rated value

100

kA

● 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 Rated value 	kA	10
• with 3 current paths in series for DC at 450 V	kA	10
Rated value		
Response value current of the instantaneous short-	Α	2.1
circuit release		
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	Α	0.16
● at 600 V Rated value	Α	0.16
Contact rating of the auxiliary contacts acc. to UL		C300 / R300
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		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A
required		(short-circuit current lk < 400 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	106
Width	mm	45
Depth	mm	96
Required spacing		
with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	0
	mm	0
— at the side	mm	0

mm	0
mm	50
mm	30
mm	50
mm	0
mm	0
mm	50
mm	50
mm	30
	mm mm mm mm mm mm

Connections/ Terminals:	
Type of electrical connection	
for main current circuit	spring-loaded terminals
 for auxiliary and control current circuit 	spring-loaded 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 (0,5 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)
 for AWG conductors for main contacts 	2x (20 12)
• for auxiliary contacts	
— single or multi-stranded	2x (0,5 2,5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 1.5 mm²)
 for AWG conductors for auxiliary contacts 	2x (20 14)
Design of screwdriver shaft	Diameter 5 to 6 mm

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
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 2 000 m maximum Ambient temperature °C -20 ... +60 • during operation -50 ... +80 °C • during storage °C -50 ... +80 • during transport Relative humidity during operation % 10 ... 95

Display

Display version

• for switching status Handle

Certificates/ approvals:

General Product Approval

Declaration of Conformity

Test Certificates











Type Test
Certificates/Test
Report

Test Certificates

Shipping Approval

Declaration of the Compliance with the order

Special Test Certificate









GL

Shipping Approval



LRS







otherConfirmation

Environmental Confirmations

other



other

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=3RV20110AA25

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV20110AA25/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=3RV20110AA25&lang=en







