SIEMENS

Data sheet 3RV2011-0KA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.9...1.25A, N-RELEASE16A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

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		S0		
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	
Trainibor of poloci for main current on cure	, and the second	

dependent overload release	^	0.9 1.20
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
Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker		thermal
Operational short-circuit current breaking capacity		
(Ics) with AC	1.0	400
• 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 		10

0.9 ... 1.25

Adjustable response value current of the current-

 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 Rated value	kA	10
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	Α	1.25
● at 600 V Rated value	Α	1.25
yielded mechanical performance [hp]		
 for three-phase AC motor at 460/480 V Rated value 	metric hp	0.5
 for three-phase AC motor at 575/600 V Rated value 	metric hp	0.5
Chart aircuit		
Short-circuit: Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic
Design of the fuse link for IT network for short-circuit		magnetic
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	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
• 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
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
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

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:		

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

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1160	IWJ	10 h	٧.
	100	-	-

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

Special Test Certificate Declaration of the Compliance with the order









GL

Shipping Approval



LRS







other

Confirmation

Environmental Confirmations

other



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=3RV20110KA10

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

http://support.automation.siemens.com/WW/view/en/3RV20110KA10/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=3RV20110KA10&lang=en



