SIEMENS

Data sheet 3RV2011-1BA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 1.4...2A, N-RELEASE 26A, 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

dependent overload release	A	1.4 2
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	2
Operating current		
• at AC-3		
— at 400 V Rated value	Α	2
Operating power		
• at AC-3		
— at 230 V Rated value	W	370
— at 400 V Rated value	W	750
— at 500 V Rated value	W	750
— at 690 V Rated value	W	1 100
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		
• at 240 V Rated value	kA	100
• at 400 V Rated value	kA	100
• at 500 V Rated value	kA	100
at 600 V Dated value		10
 at 690 V Rated value 	kA	10
Maximum short-circuit current breaking capacity (Icu)	kA	10
	kA kA	100
Maximum short-circuit current breaking capacity (Icu)		
Maximum short-circuit current breaking capacity (Icu) • with AC at 240 V Rated value	kA	100
Maximum short-circuit current breaking capacity (Icu) with AC at 240 V Rated value with AC at 400 V Rated value	kA kA	100 100
Maximum short-circuit current breaking capacity (Icu) with AC at 240 V Rated value with AC at 400 V Rated value with AC at 500 V Rated value	kA kA kA	100 100 100

1.4 ... 2

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	А	26
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	Α	2
• at 600 V Rated value	Α	2
yielded mechanical performance [hp]		
 for single-phase AC motor at 230 V Rated value 	metric hp	0.125
 for three-phase AC motor at 460/480 V Rated value 	metric hp	0.75
• for three-phase AC motor at 575/600 V Rated value	metric hp	1
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 protection of the main circuit		
● at 400 V		gL/gG 25 A
● at 500 V		gL/gG 25 A
● at 690 V		gL/gG 20 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		0
	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:

Installation altitude at height above sea level maximum	m	2 000
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

• for switching status

Handle

General Product Approval

Declaration of Conformity

Test Certificates











Special Test Certificate

Test Certificates

Shipping Approval

Type Test Certificates/Test Report

Declaration of the Compliance with the order









GL

Shipping Approval



LRS







other

Environmental Confirmations

Confirmation

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=3RV20111BA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV20111BA10&lang=en



