SIEMENS

Data sheet

3RV2011-0CA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.18...0.25A, N-RELEASE3.3A SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name	SIRIUS	
Product designation	3RV2 circuit breaker	
General technical data:		
Active power loss total typical	5 W	
Insulation voltage		
 with degree of pollution 3 Rated value 	690 V	
Surge voltage resistance Rated value	6 kV	
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	
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	
Aain circuit:		
Number of poles for main current circuit	3	
Adjustable response value current of the current-	0.18 0.25 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	0.25 A
Operating current	
• at AC-3	
— at 400 V Rated value	0.25 A
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
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	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)	
 with AC at 240 V Rated value 	100 kA
 with AC at 400 V Rated value 	100 kA
 with AC at 500 V Rated value 	100 kA
 with AC at 690 V Rated value 	100 kA
Breaking capacity short-circuit current (Icn)	
 with 1 current path for DC at 150 V Rated value 	10 kA
 with 2 current paths in series for DC at 300 V Rated value 	10 kA
 with 3 current paths in series for DC at 450 V Rated value 	10 kA
Response value current of the instantaneous short- circuit release	3.3 A
UL/CSA ratings:	
Full-load current (FLA) for three-phase AC motor	
• at 480 V Rated value	0.25 A

• at 600 V	Rated value
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0.25 A

Short-circuit:	
Design of the short-circuit trip	magnetic
nstallation/ 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	45 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	
 removable terminal for auxiliary and control circuit 	No
Type of electrical connection	
• for main current circuit	screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
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
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 %
T1 value for proof test interval or service life acc. to IEC 61508	10 y
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	
 during operation 	-20 +60 °C
 during storage 	-50 +80 °C
 during transport 	
	-50 +80 °C
Relative humidity during operation	-50 +80 °C 10 95 %
Relative humidity during operation	
Relative humidity during operation Display:	



http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20110CA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV20110CA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV20110CA10&lang=en





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