SIEMENS

Data sheet 3RV2111-0CA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, W. OVERLOAD RELAY FUNCTION A-RELEASE 0.18...0.25A, N-RELEASE3.3A SCREW CONNECTION, STANDARD SW. CAPACITY

product areas as seen	
Product designation	3RV2 circuit breaker
General technical data:	
Size of contactor can be combined company-specific	S00
Product expansion	
Auxiliary switch	Yes
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
Protection class IP	
• on the front	IP20
• of the terminal	IP20
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
Type of protection	Increased safety

2 000 m

-20 ... +60 °C

SIRIUS

maximum

Ambient temperature

• during operation

Installation altitude at height above sea level

during storage	-50 +80 °C
 during transport 	-50 +80 °C
Relative humidity during operation	10 95 %

Main circuit:	
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 power	
• at AC-3	
— at 230 V Rated value	40 W
— at 400 V Rated value	60 W
— at 500 V Rated value	90 W
— at 690 V Rated value	120 W
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
Design of the auxiliary switch	laterally
Operating current of the auxiliary contacts at AC-15	
● at 24 V	1.5 A
● at 230 V	1.5 A
Operating current of the auxiliary contacts at DC-13	
● at 24 V	1 A

Protective and monitoring functions:	
Trip class	CLASS 10
Design of the overload circuit breaker	thermal
Operational short-circuit current breaking capacity	
(Ics) at 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)	
• at AC at 240 V Rated value	100 kA
• with AC at 400 V Rated value	100 kA
• at AC at 500 V Rated value	100 kA
• at AC at 690 V Rated value	100 kA
Breaking capacity short-circuit current (Icn)	
• with 1 current path at DC at 150 V Rated value	10 kA
 with 2 current paths in series at DC at 300 V Rated value 	10 kA
 with 3 current paths in series at DC at 450 V Rated value 	10 kA
Response value current of the instantaneous short-	3.3 A
circuit release	
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	0.25 A
Contact rating of the auxiliary contacts acc. to UL	C600 / R300
Short-circuit:	
Design of the short-circuit trip	magnetic
Design of the fuse link	
• for short-circuit protection of the auxiliary switch	fuse gL/gG: 6 A, quick: 10 A
required	
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	97 mm
Width	65 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

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Connections/ Terminals:	
Product function	
 removable terminal for auxiliary and control 	No
circuit	
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	Top and bottom
circuit	
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
Type of connectable conductor cross-section	
 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)
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:	
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

Mechanical data:

Size of the circuit-breaker

S00

Display:

Display version

• for switching status

Handle

Certificates/ approvals:

General Product Approval

Declaration of

Test Certificates







spezielle Prüfbescheinigunge n

Typprüfbescheinigu ng/Werkszeugnis

Shipping Approval





KTL





GL







Shipping Approval







Umweltbestätigung

Bestätigungen



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=3RV21110CA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV21110CA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV21110CA10&lang=en



