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 brandname	SIRIUS
Product designation	Circuit breaker
Design of the product	For motor protection with overload relay function
Product type designation	3RV2

General technical data	
Size of the circuit-breaker	S00
Size of contactor can be combined company-specific	S00, S0
Product extension	
Auxiliary switch	Yes
Power loss [W] total typical	5 W
Insulation voltage with degree of pollution 3 rated	690 V
value	
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 in networks with grounded star point between 	400 V
main and auxiliary circuit	
 in networks with grounded star point between 	400 V
main and auxiliary circuit	
Protection class IP	

• on the front	IP20
• of the terminal	IP20
Mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
Electrical endurance (switching cycles)	
• typical	100 000
Type of protection	Increased safety
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	Q
Ambient conditions	
Ambient temperature	
during operation	-20 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
Temperature compensation	-20 +60 °C
Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-	0.18 0.25 A
	31.5 III 5. <u>2</u> 5 I
dependent overload release	
Operating voltage	
Operating voltage • rated value	690 V
Operating voltage ■ rated value ■ at AC-3 rated value maximum	690 V 690 V
Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value	690 V 690 V 50 60 Hz
Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating current rated value	690 V 690 V
Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value	690 V 690 V 50 60 Hz
Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating current rated value	690 V 690 V 50 60 Hz
Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating current rated value Operating current	690 V 690 V 50 60 Hz
Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating current rated value Operating current • at AC-3	690 V 690 V 50 60 Hz 0.25 A
Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating current rated value Operating current • at AC-3 — at 400 V rated value	690 V 690 V 50 60 Hz 0.25 A
Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating current rated value Operating current • at AC-3 — at 400 V rated value Operating power	690 V 690 V 50 60 Hz 0.25 A
Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating current rated value Operating current • at AC-3 — at 400 V rated value Operating power • at AC-3	690 V 690 V 50 60 Hz 0.25 A
Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating current rated value Operating current • at AC-3 — at 400 V rated value Operating power • at AC-3 — at 230 V rated value	690 V 690 V 50 60 Hz 0.25 A

Auxiliary circuit	
Design of the auxiliary switch	laterally
Number of NC contacts	
 for auxiliary contacts 	0
Number of NO contacts	

120 W

15 1/h

- at 690 V rated value

Operating frequency

• at AC-3 maximum

• for auxiliary contacts	0
Number of CO contacts	
 for auxiliary contacts 	0
Operating current of auxiliary contacts at AC-15	
● at 24 V	1.5 A
● at 230 V	1.5 A
Operating current of auxiliary contacts at DC-13	
● at 24 V	1 A
Protective and monitoring functions	
Product function	
 Ground fault detection 	No
Phase failure detection	Yes
Trip class	CLASS 10
Design of the overload release	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
● at 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)	
• at 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
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 auxiliary contacts according to UL	C600 / R300
Short-circuit protection	
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 required

fuse gL/gG: 6 A, quick: 10 A

Mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rai 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

Connections/Terminals	
Product function	
 removable terminal for auxiliary and control circuit 	No
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 circuit	Top and bottom
Type of connectable conductor cross-sections	
• 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)
 at AWG conductors for main contacts 	2x (18 14), 2x 12

Type of connectable conductor cross-sections	
 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)
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)
Tightening torque	
 for main contacts with screw-type terminals 	0.8 1.2 N·m
• for auxiliary contacts with screw-type terminals	0.8 1.2 N·m
Design of screwdriver shaft	Diameter 5 to 6 mm

Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	5 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	50 %
 with high demand rate acc. to SN 31920 	50 %
Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	50 FIT
T1 value for proof test interval or service life acc. to IEC 61508	10 y
Display version	
• for switching status	Handle

Certificates/approvals

General Product Approval

Declaration of Conformity







KC





Test Certificates

Shipping Approval

Special Test Certificate Type Test
Certificates/Test
Report









Shipping Approval

other





Environmental Confirmations

Confirmation



Miscellaneous

Railway

Vibration and Shock

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2111-0CA10

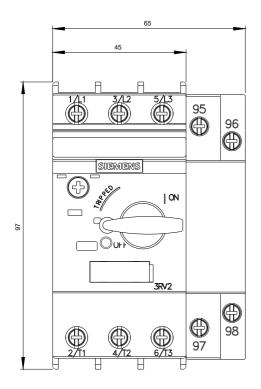
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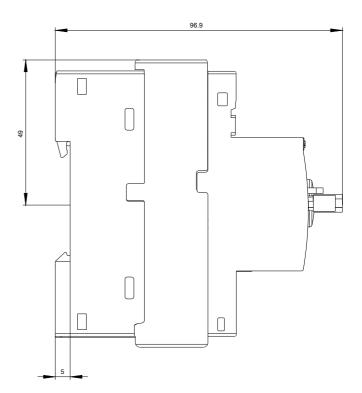
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2111-0CA10

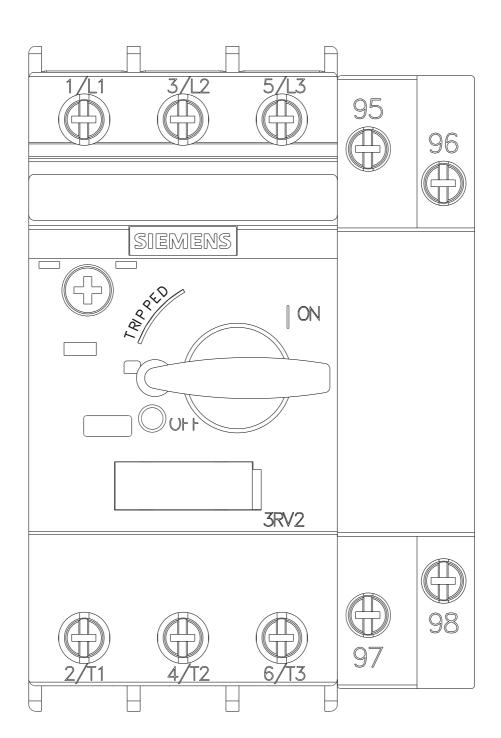
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

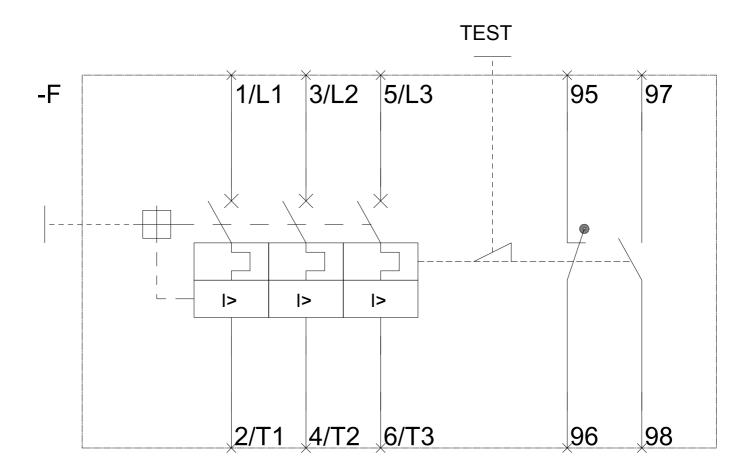
https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-0CA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2111-0CA10&lang=en









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