# **SIEMENS**

Data sheet 3RV2111-0GA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, W. OVERLOAD RELAY FUNCTION A-RELEASE 0.45...0.63A, N-RELEASE8.2A 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 value	690 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	400 V
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	400 V
Protection class IP	

	IDOO
• on the front	IP20
of the terminal	IP20
Mechanical service life (switching cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	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-	0.45 0.63 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	0.63 A
Operating current	
• at AC-3	
— at 400 V rated value	0.63 A
Operating power	
• at AC-3	
— at 230 V rated value	90 W
— at 400 V rated value	180 W
— at 500 V rated value	180 W
— at 690 V rated value	250 W
Operating frequency	
• at AC-3 maximum	15 1/h

Auxiliary circuit	
Design of the auxiliary switch	laterally
Number of NC contacts	
<ul> <li>for auxiliary contacts</li> </ul>	0
Number of NO contacts	

• for auxiliary contacts	0
Number of CO contacts	
<ul> <li>for auxiliary contacts</li> </ul>	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
<ul> <li>with 2 current paths in series at DC at 300 V rated value</li> </ul>	10 kA
<ul> <li>with 3 current paths in series at DC at 450 V rated value</li> </ul>	10 kA
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	0.63 A
• at 600 V rated value	0.63 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	

<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 6 A, quick: 10 A
Design of the fuse link for IT network for short-circuit protection of the main circuit	
● at 690 V	gL/gG 6 A

nstallation/ mounting/ dimensions	
any	
screw and snap-on mounting onto 35 mm standard mounting rail	
according to DIN EN 60715	
97 mm	
65 mm	
96 mm	
0 mm	
0 mm	
50 mm	
50 mm	
0 mm	
0 mm	
0 mm	
50 mm	
30 mm	
50 mm	
0 mm	
0 mm	
50 mm	
50 mm	
30 mm	

Connections/Terminals	
Product function	
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>	No
Type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-sections	
• for main contacts	

2x (0,75 2,5 mm²), 2x 4 mm²
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
2x (18 14), 2x 12
2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
2x (20 16), 2x (18 14)
0.8 1.2 N·m
0.8 1.2 N·m
Diameter 5 to 6 mm

Safety related data	
B10 value	
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	5 000
Proportion of dangerous failures	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	50 %
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	50 %
Failure rate [FIT]	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	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**

Type Test
Certificates/Test
Report

Special Test
Certificate









#### **Shipping Approval**

## other





Confirmation

Environmental Confirmations



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=3RV2111-0GA10

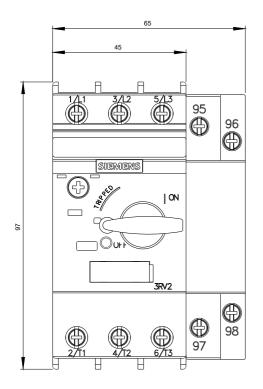
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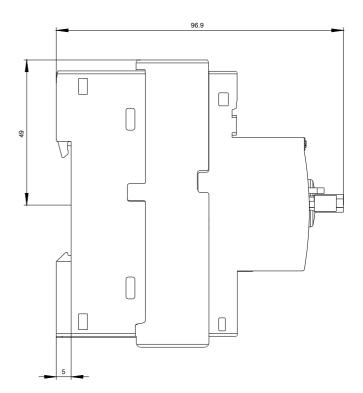
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2111-0GA10}\\$ 

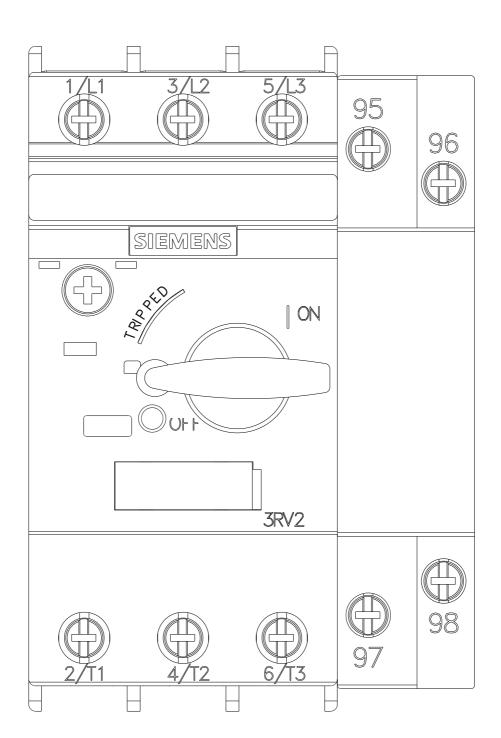
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

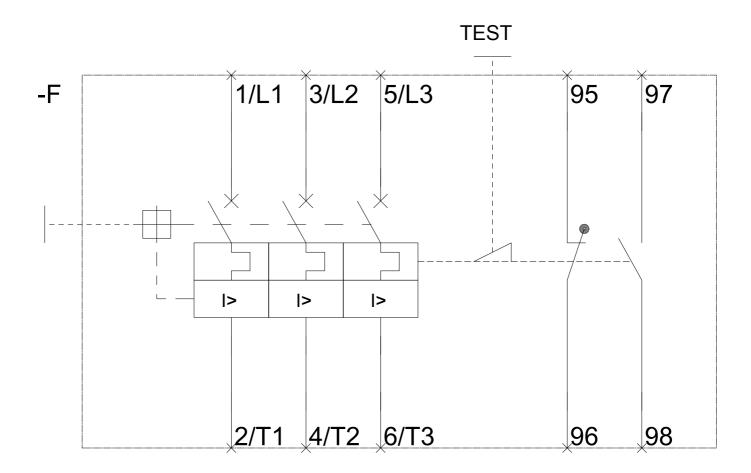
https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-0GA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2111-0GA10&lang=en









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