# **SIEMENS**

Data sheet 3RV2011-0GA10

CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 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
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	

• 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	
Number of NC contacts	
• for auxiliary contacts	0
Number of NO contacts	0
<ul> <li>for auxiliary contacts</li> </ul>	0

### Number of CO contacts 0 • for auxiliary contacts Protective and monitoring functions Product function No • Ground fault detection • Phase failure detection Yes Trip class CLASS 10 Design of the overload release thermal Operational short-circuit current breaking capacity (Ics) at AC 100 kA • 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 Maximum short-circuit current breaking capacity (Icu) 100 kA • 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 Breaking capacity short-circuit current (Icn) 10 kA • 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 UL/CSA ratings Full-load current (FLA) for three-phase AC motor 0.63 A • at 480 V rated value 0.63 A • at 600 V rated value Short-circuit protection **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 690 V gL/gG 6 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	97 mm	
Width	45 mm	

Depth	96 mm	
Required spacing		
<ul><li>with side-by-side mounting</li></ul>		
— forwards	0 mm	
— Backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
— at the side	0 mm	
<ul><li>for grounded parts</li></ul>		
— 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		
	No	
Product function  ● removable terminal for auxiliary and control		
Product function  • removable terminal for auxiliary and control circuit  Type of electrical connection  • for main current circuit	screw-type terminals	
Product function  • removable terminal for auxiliary and control circuit  Type of electrical connection  • for main current circuit  Arrangement of electrical connectors for main current		
Product function  • removable terminal for auxiliary and control circuit  Type of electrical connection  • for main current circuit  Arrangement of electrical connectors for main current circuit	screw-type terminals	
Product function  • removable terminal for auxiliary and control circuit  Type of electrical connection  • for main current circuit  Arrangement of electrical connectors for main current circuit  Type of connectable conductor cross-sections	screw-type terminals	
Product function  ■ removable terminal for auxiliary and control circuit  Type of electrical connection  ■ for main current circuit  Arrangement of electrical connectors for main current circuit  Type of connectable conductor cross-sections  ■ for main contacts	screw-type terminals	
Product function  • removable terminal for auxiliary and control circuit  Type of electrical connection  • for main current circuit  Arrangement of electrical connectors for main current circuit  Type of connectable conductor cross-sections  • for main contacts  — single or multi-stranded	screw-type terminals  Top and bottom	
Product function  ■ removable terminal for auxiliary and control circuit  Type of electrical connection  ■ for main current circuit  Arrangement of electrical connectors for main current circuit  Type of connectable conductor cross-sections  ■ for main contacts	screw-type terminals  Top and bottom  2x (0,75 2,5 mm²), 2x 4 mm²	
Product function  • removable terminal for auxiliary and control circuit  Type of electrical connection  • for main current circuit  Arrangement of electrical connectors for main current circuit  Type of connectable conductor cross-sections  • for main contacts  — single or multi-stranded  — finely stranded with core end processing	screw-type terminals  Top and bottom  2x (0,75 2,5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
Product function  • removable terminal for auxiliary and control circuit  Type of electrical connection  • for main current circuit  Arrangement of electrical connectors for main current circuit  Type of connectable conductor cross-sections  • for main contacts  — single or multi-stranded  — finely stranded with core end processing  • at AWG conductors for main contacts	screw-type terminals  Top and bottom  2x (0,75 2,5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
Product function  • removable terminal for auxiliary and control circuit  Type of electrical connection  • for main current circuit  Arrangement of electrical connectors for main current circuit  Type of connectable conductor cross-sections  • for main contacts  — single or multi-stranded  — finely stranded with core end processing  • at AWG conductors for main contacts  Tightening torque	screw-type terminals  Top and bottom  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	
Product function         • removable terminal for auxiliary and control circuit  Type of electrical connection         • for main current circuit  Arrangement of electrical connectors for main current circuit  Type of connectable conductor cross-sections         • for main contacts             — single or multi-stranded             — finely stranded with core end processing         • at AWG conductors for main contacts  Tightening torque         • for main contacts with screw-type terminals	screw-type terminals  Top and bottom  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  0.8 1.2 N·m	
Product function         • removable terminal for auxiliary and control circuit  Type of electrical connection         • for main current circuit  Arrangement of electrical connectors for main current circuit  Type of connectable conductor cross-sections         • for main contacts             — single or multi-stranded             — finely stranded with core end processing             • at AWG conductors for main contacts  Tightening torque         • for main contacts with screw-type terminals  Design of screwdriver shaft	screw-type terminals  Top and bottom  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  0.8 1.2 N·m	
Product function	screw-type terminals  Top and bottom  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  0.8 1.2 N·m	
Product function	screw-type terminals  Top and bottom  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  0.8 1.2 N·m  Diameter 5 to 6 mm	

• with high demand rate acc. to SN 31920	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 For use in hazardous locations











For use in	Declaration of	Test Certificates	Shipping Approval
hazardous	Conformity		
locations			



**IECE**x



Type Test
Certificates/Test
Report

Special Test Certificate

KC





## **Shipping Approval**



LRS







other

Confirmation

Environmental Confirmations

## other Railway



Miscellaneous

Vibration and Shock

### Further information

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

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

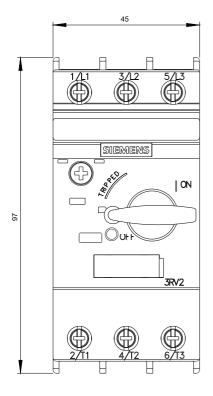
Industry Mall (Online ordering system)

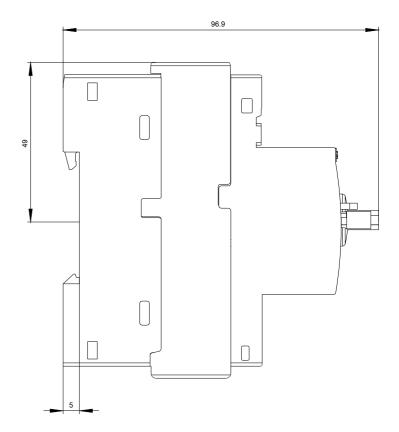
 $\underline{ https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-0GA10} \\$ 

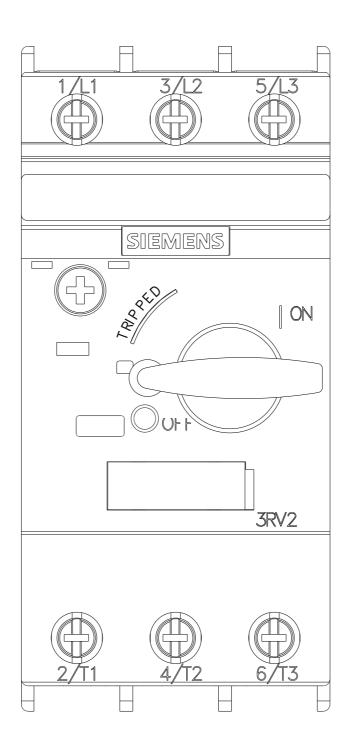
Cax online generator

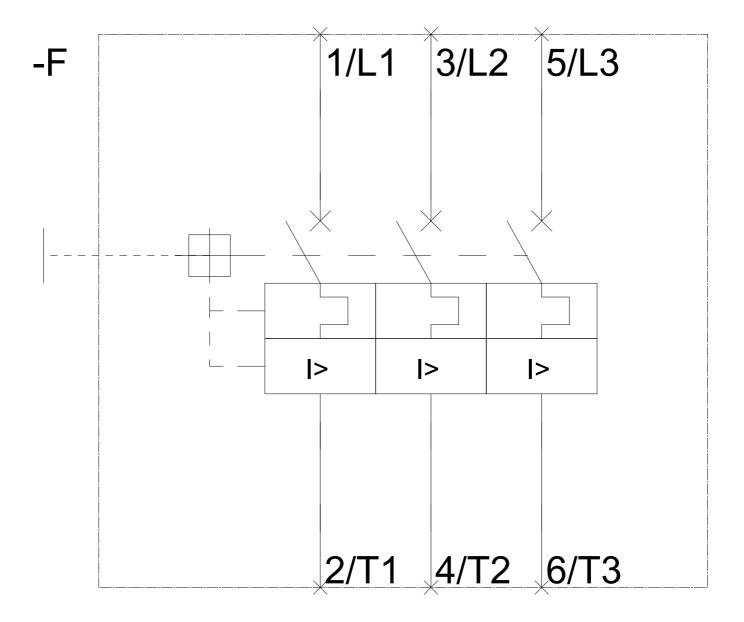
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0GA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-0GA10&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-0GA10&lang=en</a>









last modified: 06/20/2017