## **SIEMENS**

Data sheet 3RV2111-0AA10

SIRIUS





Circuit breaker size S00 for motor protection, CLASS 10 with overload relay function A-release 0.11...0.16 A N-release 2.1 A screw terminal Standard switching capacity



product brand name	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] for rated value of the current		
<ul> <li>at AC in hot operating state</li> </ul>	5.5 W	
at AC in hot operating state per pole	1.8 W	
insulation voltage with degree of pollution 3 at AC rated value	690 V	
surge voltage resistance rated value	6 kV	
shock resistance according to IEC 60068-2-27	25g / 11 ms	
mechanical service life (operating cycles)		
<ul> <li>of the main contacts typical</li> </ul>	100 000	
of auxiliary contacts typical	100 000	
electrical endurance (operating cycles) typical	100 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	10/01/2009	
SVHC substance name	Lead - 7439-92-1	
Weight	0.36 kg	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul> <li>during operation</li> </ul>	-20 +60 °C	
during storage	-50 +80 °C	
during transport	-50 +80 °C	
relative humidity during operation	10 95 %	
Environmental footprint		
Environmental Product Declaration(EPD)	Yes	
global warming potential [CO2 eq] total	74.698 kg	
global warming potential [CO2 eq] during manufacturing	1.98 kg	
global warming potential [CO2 eq] during sales	0.134 kg	
global warming potential [CO2 eq] during operation	72.7 kg	
global warming potential [CO2 eq] after end of life	-0.116 kg	
Siemens Eco Profile (SEP)	Siemens EcoTech	

Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	0.11 0.16 A
type of voltage for main current circuit	AC
operating voltage	
• rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.16 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	0.16 A
at AC-3e at 400 V rated value	0.16 A
operating power	
• at AC-3	
— at 230 V rated value	0 kW
— at 400 V rated value	0.04 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
• at AC-3e	
— at 230 V rated value	0 kW
— at 400 V rated value	0.04 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	laterally
type of voltage for auxiliary and control circuit	AC/DC
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	1 F A
<ul><li>at 24 V</li><li>at 230 V</li></ul>	1.5 A 1.5 A
operational current of auxiliary contacts at DC-13	1.5 A
• 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
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
operating 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
response value current of instantaneous short-circuit trip unit	2.1 A
UL/CSA ratings	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
	0.16 A
full-load current (FLA) for 3-phase AC motor	0.16 A 0.16 A 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
nstallation/ mounting/ dimensions	33
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm
width	65 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
• for grounded parts at 400 V	V IIIII
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
for live parts at 400 V	V IIIII
— downwards	30 mm
— upwards	30 mm
— upwards — at the side	9 mm
	3 Hill
<ul> <li>for grounded parts at 500 V</li> <li>— downwards</li> </ul>	30 mm
	30 mm
— upwards — at the side	9 mm
at the side     for live parts at 500 V	3 Hill
downwards	30 mm
	30 mm
— upwards — at the side	9 mm
	9 111111
<ul><li>for grounded parts at 690 V</li><li>— downwards</li></ul>	50 mm
— upwards	50 mm
— upwards — backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	O IIIIII
— downwards	50 mm
	50 mm
— upwards	0 mm
<ul><li>— backwards</li><li>— at the side</li></ul>	30 mm
— at the side — forwards	0 mm
— forwards  Connections/ Terminals	V IIIII
type of electrical connection	corow type terminals
for main current circuit     for auxiliany and control circuit	screw-type terminals
for auxiliary and control circuit  Arrangement of electrical connectors for main current.	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
• for main contacts	
— solid or 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 cables for main contacts	2x (18 14), 2x 12
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	
- finely stranded with core end processing  for AWG cables for auxiliary contacts	2x (20 16) 2x (18 14)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
for AWG cables for auxiliary contacts     tightening torque	
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)  0.8 1.2 N·m  0.8 1.2 N·m

size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
• for main contacts	M3
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Safety related data	
product function suitable for safety function	Yes
suitability for use	
<ul> <li>safety-related switching on</li> </ul>	No
<ul> <li>safety-related switching OFF</li> </ul>	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
T1 value	
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	10 a
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Display	
display version for switching status	Handle
Approvals Certificates	
Conoral Braduct Approval	

## **General Product Approval**









<u>KC</u>



General Product Approval

**Test Certificates** 

Maritime application



Type Test Certificates/Test Report

Special Test Certificate







Maritime application

other







Confirmation

**Miscellaneous** 



other Railway

Environment



Special Test Certificate

Confirmation







Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2111-0AA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2111-0AA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-0AA10

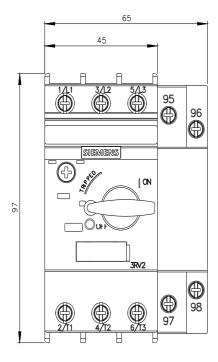
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

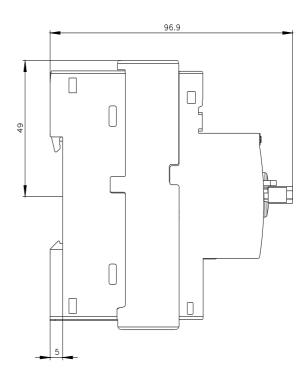
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2111-0AA10&lang=en

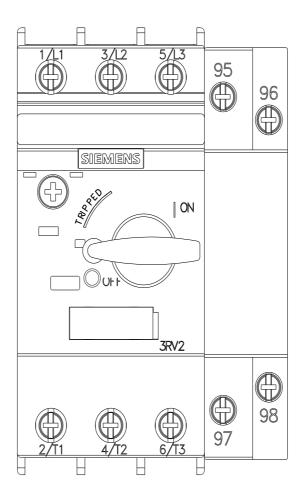
Characteristic: Tripping characteristics, I2t, Let-through current

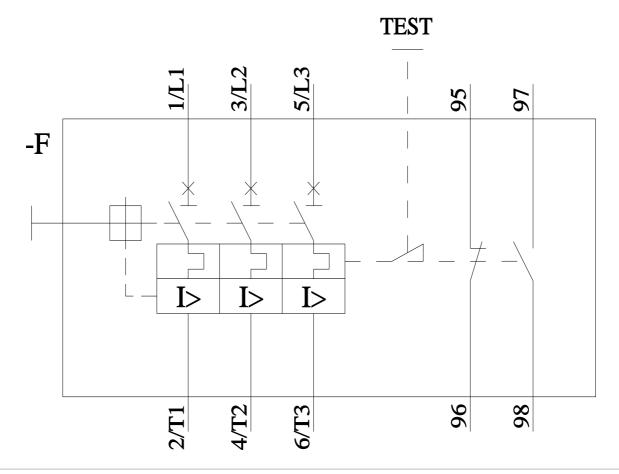
https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-0AA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2111-0AA10&objecttype=14&gridview=view1









last modified:

5/16/2025