SIEMENS

product brand name

Data sheet 3RV2011-1AA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.1...1.6 A N-release 21 A screw terminal Standard switching capacity



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] for rated value of the current		
 at AC in hot operating state 	7.25 W	
at AC in hot operating state per pole	2.4 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)		
 of the main contacts typical 	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	0.344 kg	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
 during operation 	-20 +60 °C	
during storage	-50 +80 °C	
during transport	-50 +80 °C	
relative humidity during operation	10 95 %	
Main circuit		
number of poles for main current circuit	3	
adjustable current response value current of the current- dependent overload release	1.1 1.6 A	
operating voltage		
• rated value	20 690 V	
 at AC-3 rated value maximum 	690 V	
 at AC-3e rated value maximum 	690 V	

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operating frequency rated value	50 60 Hz
operational current rated value	1.6 A
operational current	1.07
at AC-3 at 400 V rated value	1.6 A
at AC-3e at 400 V rated value	1.6 A
operating power	1.071
• at AC-3	
— at 230 V rated value	0.3 kW
— at 400 V rated value	0.55 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
• at AC-3e	
— at 230 V rated value	0.3 kW
— at 400 V rated value	0.55 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
operating frequency	1.1 KVV
• at AC-3 maximum	15 1/h
at AC-3 maximum at AC-3e maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
•	Ma
ground fault detection phase failure detection	No Yes
phase failure detection Trip class	CLASS 10
trip class	
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 240 V rated value at AC at 400 V rated value	100 kA 100 kA
at AC at 400 V rated value 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 at 500 V rated value 	100 kA 100 kA
at 690 V rated value at 690 V rated value	
response value current of instantaneous short-circuit trip unit	100 kA
<u> </u>	21 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	404
at 480 V rated value at 600 V rated value	1.6 A
at 600 V rated value Violded manhanical perfermance [hp]	1.6 A
yielded mechanical performance [hp]	
for single-phase AC motor at 330 V rated value.	0.4 hp
— at 230 V rated value	0.1 hp
• for 3-phase AC motor	4 hm
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	0.8 hp
Short-circuit protection	V
product function short circuit protection	Yes
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	magnetic
• at 500 V	gL/gG 20 A
• at 690 V	gL/gG 16 A
Installation/ mounting/ dimensions	3-3-7-7-1
mounting position	any
fastening method	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm



width	45 mm
depth	97 mm
required spacing	97 111111
with side-by-side mounting at the side	0 mm
-	0 111111
• for grounded parts at 400 V	30 mm
— downwards	
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	20
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 500 V	00
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main 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	
— 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
tightening torque	
for main contacts with screw-type terminals	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
for main contacts	M3
Safety related data	
product function suitable for safety function	Yes
suitability for use	
safety-related switching on	No
safety-related switching OFF	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	40.7
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	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
V.V=V	



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	
 for proof test interval or service life according to IEC 61508 	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	
Comment Broadwat American	

General Product Approval







Confirmation



<u>KC</u>

General Product Approval

For use in hazardous locations

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>



Marine / Shipping











Confirmation

other

other Railway **Environment**

Miscellaneous



Special Test Certificate

Confirmation



Siemens



Environment

Environmental Confirmations

Information on the packaging

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

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=3RV2011-1AA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1AA10

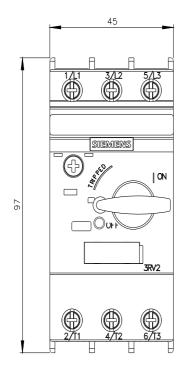
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

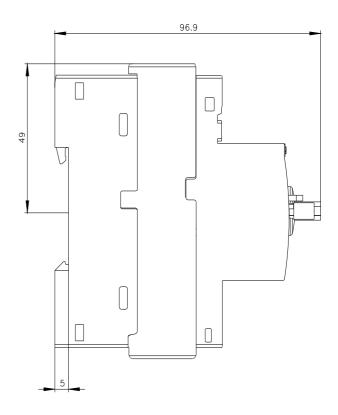
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1AA10

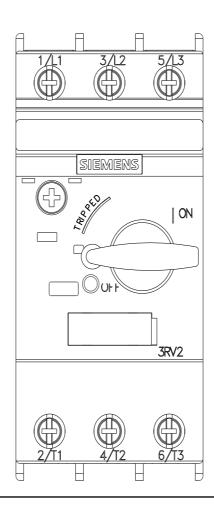
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1AA10&lang=en

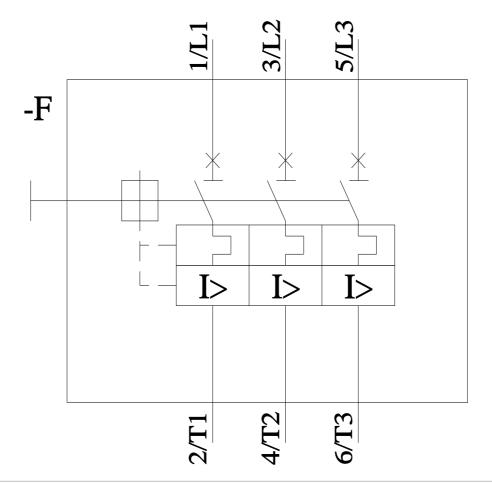


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