## **SIEMENS**

Data sheet 3RV2011-1DA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 2.2...3.2 A N release 42 A screw terminal Standard switching capacity



design of the product Fc product type designation 3F General technical data	Circuit breaker for motor protection RV2
design of the product Fc product type designation 3F General technical data	·
product type designation 3F General technical data	·
General technical data	
size of the circuit-breaker So	
	300
size of contactor can be combined company-specific So	800, S0
product extension auxiliary switch	es
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 69	90 V
surge voltage resistance rated value 6	kV
shock resistance according to IEC 60068-2-27 25	5g / 11 ms
mechanical service life (operating cycles)	
• of the main contacts typical	00 000
• of auxiliary contacts typical	00 000
electrical endurance (operating cycles) typical	00 000
reference code according to IEC 81346-2 Q	1
Substance Prohibitance (Date)	0/01/2009
SVHC substance name	ead - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum 2	000 m
ambient temperature	
• during operation -2	20 +60 °C
• during storage -5	50 +80 °C
• during transport -5	50 +80 °C
relative humidity during operation 10	0 95 %
Main circuit	
number of poles for main current circuit 3	
adjustable current response value current of the current- dependent overload release	.2 3.2 A
operating voltage	
• rated value 20	0 690 V
	00.1/
• at AC-3 rated value maximum 69	90 V
	90 V 90 V

operational current rated value 3.2 A operational current	
- at AC 2 at 400 \/ rated value	
• at AC-3 at 400 V rated value  3.2 A	
at AC-3e at 400 V rated value     3.2 A	
operating power	
• at AC-3	
— at 230 V rated value 0.6 kW	
— at 400 V rated value 1.1 kW	
— at 500 V rated value 1.5 kW	
— at 690 V rated value 2.2 kW	
• at AC-3e	
— at 230 V rated value 0.6 kW	
— at 400 V rated value 1.1 kW	
— at 500 V rated value 1.5 kW	
— at 690 V rated value 2.2 kW	
operating frequency	
• at AC-3 maximum 15 1/h	
• 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 CO contacts for auxiliary contacts 0	
Protective and monitoring functions	
product function	
• ground fault detection No	
• phase failure detection Yes	
trip class CLASS 1	0
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 10 kA	
operating short-circuit current breaking capacity (lcs) 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 10 kA	
response value current of instantaneous short-circuit trip unit 42 A	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value 3.2 A	
• at 600 V rated value 3.2 A	
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value 0.1 hp	
— at 230 V rated value 0.25 hp	
• for 3-phase AC motor	
— at 200/208 V rated value 0.5 hp	
— at 220/230 V rated value 0.75 hp	
— at 460/480 V rated value 2 hp	
— at 575/600 V rated value 2 hp	
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 400 V gL/gG 25	A
• at 500 V gL/gG 32	
• at 690 V gL/gG 25	A
Installation/ mounting/ dimensions	

mounting position	any
fastening method	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	
with side-by-side mounting at the side	0 mm
• for grounded parts at 400 V	V IIIII
— downwards	30 mm
	30 mm
— upwards	
— at the side	9 mm
• for live parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for live parts at 500 V</li> </ul>	
— 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	O Hilli
type of electrical connection	
• for main current circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
• for main contacts	
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	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	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920      with high demand rate according to SN 31920	50 %
with high demand rate according to 3N 31920	OO 70

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	

## **General Product Approval**







Confirmation



<u>KC</u>

General Product Approval

For use in hazardous locations

**Test Certificates** 

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping











Miscellaneous

other

other

Railway

Environment

Confirmation



Special Test Certificate

Confirmation







## Environment

Environmental Confirmations

## Further information

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=3RV2011-1DA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1DA10

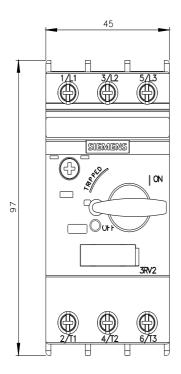
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

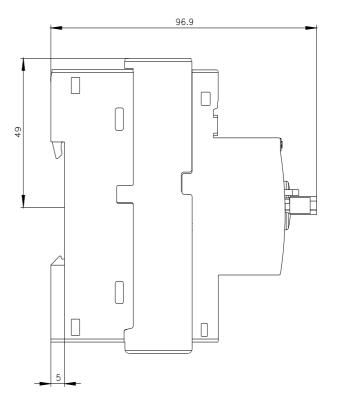
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1DA10

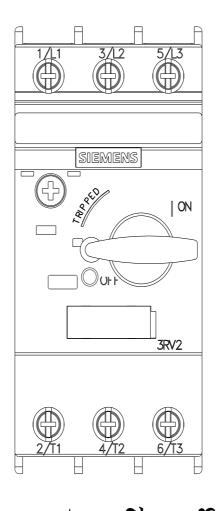
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RV2011-1DA10&lang=en

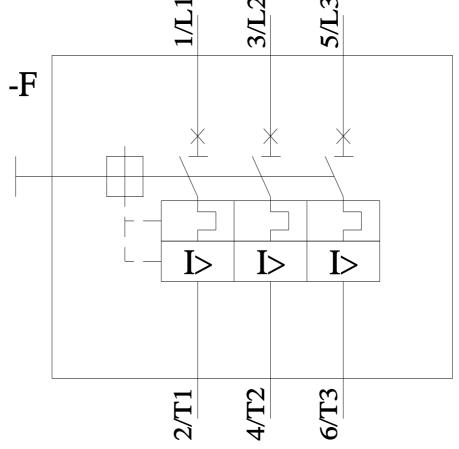
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1DA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1DA10&objecttype=14&gridview=view1









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