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



product brand name	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] 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	0.348 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 %	
Environmental footprint		
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	2.2 3.2 A
operating voltage	
• rated value	20 690 V
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operating requestory rated value	3.2 A
operational current	0.27
at AC-3 at 400 V rated value	3.2 A
at AC-3e at 400 V rated value	3.2 A
operating power	0.271
• 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	13 1/11
	0
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	C .
product function	No
product function • ground fault detection	No You
product function	Yes
product function	Yes CLASS 10
product function	Yes
product function	Yes CLASS 10 thermal
product function	Yes CLASS 10 thermal
product function	Yes CLASS 10 thermal 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA
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product function	Yes CLASS 10 thermal 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 10 kA 10 kA 10 kA 42 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 10 kA 10 kA 10 kA 100 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 10 kA 10 kA 10 kA 42 A
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 10 kA 10 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 102 kA 103 kA 104 kA 105 kA 105 kA 106 kA 107 kA 107 kA 107 kA 107 kA 107 kA
product function	Yes CLASS 10 thermal 100 kA 10 hA 10
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 102 kA 103 kA 104 kA 105 kA 105 kA 106 kA 107 kA 107 kA 107 kA 107 kA 107 kA
product function	Yes CLASS 10 thermal 100 kA 10 hA
product function	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 10 kA 100 kA 100 kA 100 kA 100 kA 100 kA 00 kA 100 kA 00 kA
product function	Yes CLASS 10 thermal 100 kA 42 A 3.2 A 3.2 A 3.2 A 0.1 hp 0.25 hp 0.75 hp
product function	Yes CLASS 10 thermal 100 kA 100 hA 1
product function	Yes CLASS 10 thermal 100 kA 42 A 3.2 A 3.2 A 3.2 A 0.1 hp 0.25 hp 0.75 hp

magnetic
gL/gG 25 A
gL/gG 32 A
gL/gG 25 A
g1.g0 1071
any
screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
97 mm
45 mm
97 mm
0 mm
30 mm
30 mm
9 mm
30 mm
30 mm
9 mm
30 mm
30 mm
9 mm
30 mm
30 mm
9 mm
50 mm
50 mm
0 mm
30 mm
0 mm
F0
50 mm
50 mm 0 mm
0 mm 30 mm
30 mm 0 mm
V IIIII
screw-type terminals
Top and bottom
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
Pozidriv size 2
M3

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 	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	
 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	
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



Siemens EcoTech



Environment

Environmental Confirmations

Further information

Information on the packaging

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

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

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,...)

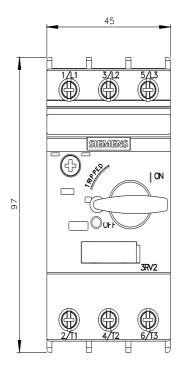
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1DA10&lang=en

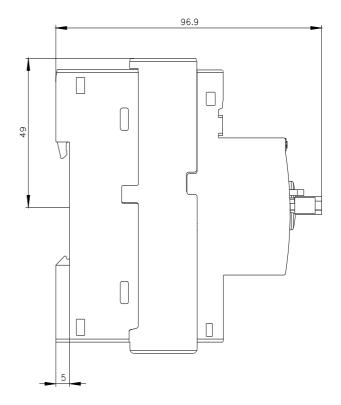
Characteristic: Tripping characteristics, I2t, Let-through current

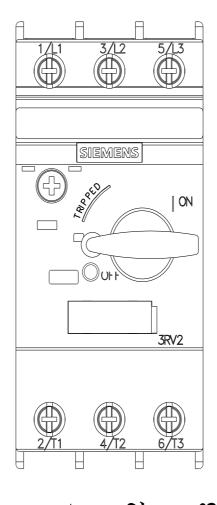
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1DA10/char

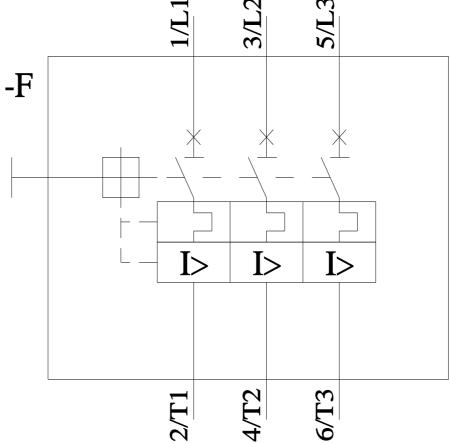
Further characteristics (e.g. electrical endurance, switching frequency)

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