SIEMENS

Data sheet 3RV2011-0KA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.9...1.25 A N-release 16 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	0.344 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 %
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-	0.9 1.25 A
dependent overload release	5.5 (LEO / L
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
operational current rated value	1.25 A
operational current	
 at AC-3 at 400 V rated value 	1.25 A
at AC-3e at 400 V rated value	1.25 A
operating power	
• at AC-3	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.37 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.8 kW
• at AC-3e	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.37 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.8 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	
product function • ground fault detection	No
product function • ground fault detection • phase failure detection	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
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product function	Yes CLASS 10 thermal 100 kA 101 kA 101 kA 101 kA 102 kA 103 kA 104 kA 105 kA 105 kA 106 kA
product function	Yes CLASS 10 thermal 100 kA 101 kA 101 kA 101 kA 101 kA 101 kA 101 kA 102 kA 103 kA 104 kA 105 kA 106 kA 107 kA 108 kA 109 kA 109 kA 109 kA 109 kA 109 kA 109 kA
product function	Yes CLASS 10 thermal 100 kA 101 kA 101 kA 101 kA 102 kA 103 kA 104 kA 105 kA 105 kA 106 kA
product function	Yes CLASS 10 thermal 100 kA
product function	Yes CLASS 10 thermal 100 kA 1100 kA 1
product function	Yes CLASS 10 thermal 100 kA 101 kA 100 kA
product function	Yes CLASS 10 thermal 100 kA 1100 kA 1
product function	Yes CLASS 10 thermal 100 kA 1100 kA

• at 690 V	gL/gG 16 A
nstallation/ 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 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for live parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 500 V 	
— 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
onnections/ 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
afety related data	
product function suitable for safety function	Yes
suitability for use	
safety-related switching on	No
safety-related switching OFF	Yes
· · · · · · · · · · · · · · · · · · ·	10 a
service life maximum	10 d
service life maximum test wear-related service life necessary	Yes

emand rate according to SN 31920 40 %	
lemand rate according to SN 31920 50 %	
nigh demand rate according to SN 31920 5 000	
with low demand rate according to SN 50 FIT	
ording to ISO 13849-1 3	
ng according to ISO 13849-2 necessary Yes	
pe according to IEC 61508-2 Type A	
est interval or service life according to IEC 10 a	
IP on the front according to IEC 60529 IP20	
n on the front according to IEC 60529 finger-safe, for vertical contact from the	ne front
or switching status Handle	
cates	
pe according to ISO 13849-2 necessary Yes Type A Set interval or service life according to IEC 10 a IP20 In on the front according to IEC 60529 IP30 IP40 IP40 IP40 IP40 IP40 IP40 IP40 IP4	ne front

General Product Approval







Confirmation





For use in hazardous locations

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping









Miscellaneous

other

Confirmation

Railway Environment other



Special Test Certificate

Confirmation



EcoTech



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=3RV2011-0KA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0KA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0KA10

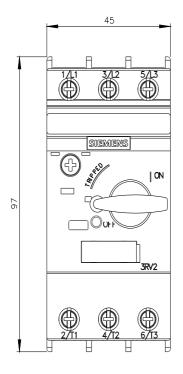
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0KA10&lang=en

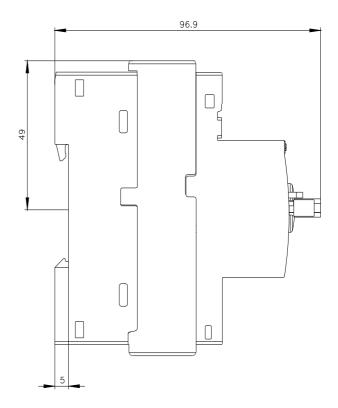
Characteristic: Tripping characteristics, I2t, Let-through current

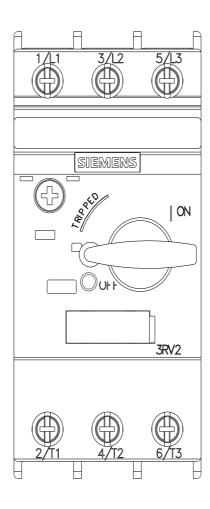
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0KA10/char

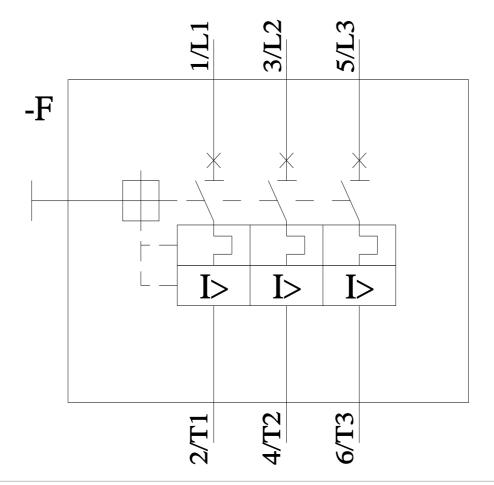
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0KA10&objecttype=14&gridview=view1









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