SIEMENS

Data sheet 3RV2011-0AA10



Circuit breaker size S00 for motor protection, CLASS 10 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
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 	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
maximum permissible voltage for safe isolation in networks with grounded star point	
 between main and auxiliary circuit 	400 V
 between main and auxiliary circuit 	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
of auxiliary contacts typical	100 000
electrical endurance (switching cycles) typical	100 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-20 +60 °C
ambient temperature during storage	-50 +80 °C
ambient temperature during transport	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the	0.11 0.16 A

690 V	
690 V	
50 60 Hz	
0.16 A	
0.16 A	
20 W	
40 W	
60 W	
60 W	
15 1/h	
0	
0	
0	
No	
Yes	
CLASS 10	
thermal	
400 4	
100 kA	
400 1 A	
100 kA	
2.1 A	
0.16 A	
0.16 A	
Yes	
magnetic	
any	
screw and snap-on mounting onto 35 mm standard mounting rail	
according to DIN EN 60715	
97 mm	
45 mm	
97 mm	
30 mm	
30 mm	
9 mm	
9 111111	
9 11111	
30 mm	



		locations
General Product Approval		hazardous
		For use in
Certificates/ approvals		
display version for switching status	Handle	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	
protection class IP on the front acc. to IEC 60529	IP20	
T1 value for proof test interval or service life acc. to IEC 61508	10 y	
with low demand rate acc. to SN 31920 The value for proof test interval or convice life acc. to	50 FIT	
failure rate [FIT]		
with high demand rate acc. to SN 31920	50 %	
 with low demand rate acc. to SN 31920 	50 %	
proportion of dangerous failures		
with high demand rate acc. to SN 31920	5 000	
B10 value		
Safety related data		
for main contacts	M3	
design of the thread of the connection screw		
size of the screwdriver tip	Pozidriv 2	
design of screwdriver shaft	Diameter 5 to 6 mm	
tightening torque for main contacts with screw-type terminals	0.8 1.2 N·m	
at AWG cables for main contacts	2x (18 14), 2x 12	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²	
• for main contacts		
type of connectable conductor cross-sections		
circuit		
arrangement of electrical connectors for main current	Top and bottom	
• for main current circuit	screw-type terminals	
control circuit type of electrical connection		
product function removable terminal for auxiliary and	No	
Connections/ Terminals		
— forwards	0 mm	
— at the side	30 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
 for live parts at 690 V 		
— forwards	0 mm	
— at the side	30 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
● for grounded parts at 690 V		
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
• for live parts at 500 V		
— at the side	9 mm	
— upwards	30 mm	
— downwards	30 mm	
 for grounded parts at 500 V 		













For use in hazardous **locations**

Declaration of Conformity

Test Certificates

<u>KC</u>

Marine / Shipping



Miscellaneous



Special Test <u>Certificate</u>

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Confirmation



Confirmation

Vibration and Shock

Further information

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=3RV2011-0AA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0AA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0AA10

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0AA10\&lang=en}}$

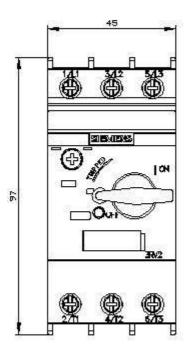
Characteristic: Tripping characteristics, I2t, Let-through current

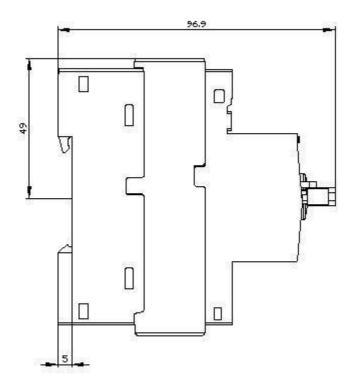
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0AA10/char

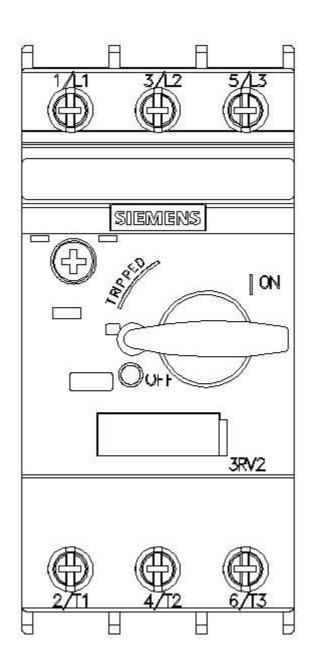
Further characteristics (e.g. electrical endurance, switching frequency)

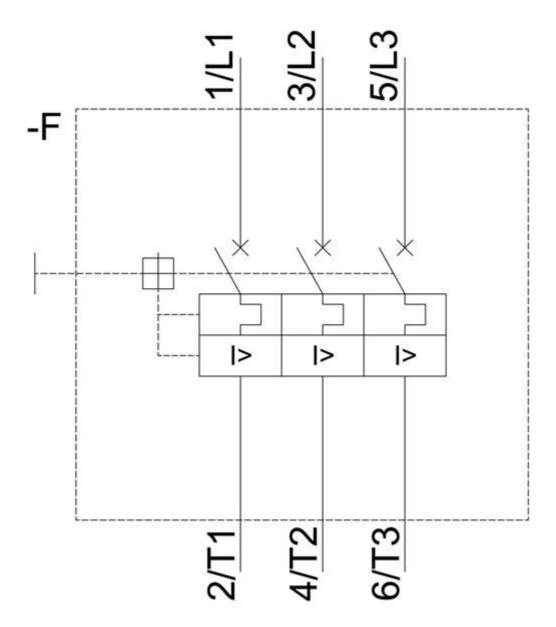
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0AA10&objecttype=14&gridview=view1











last modified: 12/15/2020 ௴