## **SIEMENS**

Data sheet 3RV2011-0JA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.7...1 A N-release 13 A screw terminal Standard switching capacity

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product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection 3RV2
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	
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	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)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (operating 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-50 +80 °C
<ul> <li>during transport</li> </ul>	-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	0.7 1 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	1 A
-	

operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	1 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	1 A
operating power	
• at AC-3	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.25 kW
<ul><li>at 500 V rated value</li></ul>	0.4 kW
— at 690 V rated value	0.6 kW
• at AC-3e	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.25 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.6 kW
operating frequency	
<ul> <li>at AC-3 maximum</li> </ul>	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 10
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	100 kA
operating short-circuit current breaking capacity (lcs)	
at AC	
<ul><li>at 240 V rated value</li></ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
<ul> <li>at 500 V rated value</li> </ul>	100 kA
<ul> <li>at 690 V rated value</li> </ul>	100 kA
response value current of instantaneous short-circuit trip	13 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	1 A
<ul> <li>at 600 V rated value</li> </ul>	1 A
yielded mechanical performance [hp]	
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 575/600 V rated value	0.5 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 500 V	gL/gG 10 A
● at 690 V	gL/gG 10 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	
<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm

B10 value  • with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with low demand rate according to SN 31920  failure rate [FIT]  • with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  display version for switching status  Certificates/ approvals  General Product Approval	For use in hazard- ous locations
B10 value  • with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT]  • with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  display version for switching status  5 000  50 %  50 FIT  10 y  IP20  IP20  finger-safe, for vertical contact from the front Handle	
with high demand rate according to SN 31920     proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920     with low demand rate according to SN 31920     failure rate [FIT]     with low demand rate according to SN 31920     T1 value for proof test interval or service life according to IEC 61508     protection class IP on the front according to IEC 60529     touch protection on the front according to IEC 60529      finger-safe, for vertical contact from the front	
B10 value  • with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT]  • with low demand rate according to SN 31920  for the standard rate according to SN 31920  for the standard rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529	
B10 value  • with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT]  • with low demand rate according to SN 31920  failure rate [FIT]  • with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC IP20	
with high demand rate according to SN 31920     proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920     with high demand rate according to SN 31920     failure rate [FIT]     with low demand rate according to SN 31920     T1 value for proof test interval or service life according to	
■ with high demand rate according to SN 31920 5 000  proportion of dangerous failures  ■ with low demand rate according to SN 31920 50 %  ■ with high demand rate according to SN 31920 50 %  failure rate [FIT]	
■ with high demand rate according to SN 31920 5 000  proportion of dangerous failures  ■ with low demand rate according to SN 31920 50 %  ■ with high demand rate according to SN 31920 50 %	
■ With high demand rate according to SN 31920 5 000  proportion of dangerous failures  • with low demand rate according to SN 31920 50 %	
B10 value  ◆ with high demand rate according to SN 31920  proportion of dangerous failures  5 000	
B10 value  ◆ with high demand rate according to SN 31920 5 000	
B10 value	
• for main contacts M3	
design of the thread of the connection screw	
size of the screwdriver tip  Pozidriv size 2	
design of screwdriver shaft  Diameter 5 to 6 mm	
◆ for main contacts with screw-type terminals     ○.8 1.2 N·m	
tightening torque	
• 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	
arrangement of electrical connectors for main current circuit Top and bottom	
3,	
type of electrical connection  • for main current circuit screw-type terminals	
Connections/ Terminals	
<ul><li>— at the side</li><li>— forwards</li><li>30 mm</li><li>0 mm</li></ul>	
— 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	
— at the side 9 mm	
— upwards 30 mm	
— downwards 30 mm	
• for live parts at 400 V	
— at the side 9 mm	
— upwards 30 mm	
— downwards 30 mm	
for grounded parts at 400 V	





Confirmation







For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



## Marine / Shipping













other

Railway

Confirmation



Vibration and Shock

Confirmation

## **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=3RV2011-0JA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0JA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0JA10

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

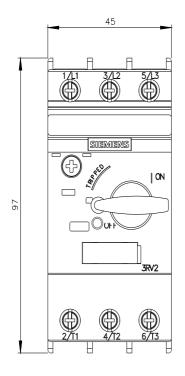
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-0JA10&lang=en

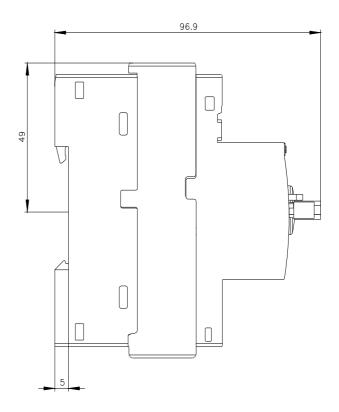
Characteristic: Tripping characteristics, I2t, Let-through current

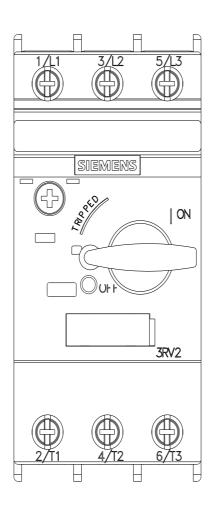
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0JA10/char

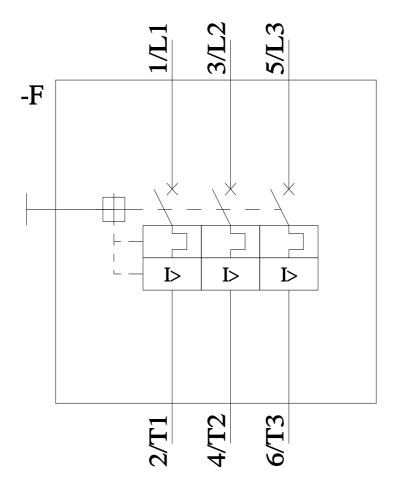
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0JA10&objecttype=14&gridview=view1









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