SIEMENS

Data sheet 3RV2011-0JA20



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.7...1 A N-release 13 A Spring-type 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
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
reference code according to IEC 81346-2 Substance Prohibitance (Date)	Q 10/01/2009
Substance Prohibitance (Date)	
Substance Prohibitance (Date) Ambient conditions	10/01/2009
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum	10/01/2009
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature	10/01/2009 2 000 m
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	10/01/2009 2 000 m -20 +60 °C
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage	10/01/2009 2 000 m -20 +60 °C -50 +80 °C
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport	10/01/2009 2 000 m -20 +60 °C -50 +80 °C -50 +80 °C
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation	10/01/2009 2 000 m -20 +60 °C -50 +80 °C -50 +80 °C
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit	10/01/2009 2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-	10/01/2009 2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release	10/01/2009 2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	10/01/2009 2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.7 1 A
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value	10/01/2009 2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.7 1 A
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum	10/01/2009 2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.7 1 A
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum	10/01/2009 2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.7 1 A 20 690 V 690 V

 at AC-3 at 400 V rated value 	1 A
at AC-3e at 400 V rated value	1 A
operating power	
• at AC-3	
— 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
• 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	45.47
• 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 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 (Ics) 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	100 kA
response value current of instantaneous short-circuit trip unit	13 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	1 A
at 600 V rated value	1 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— 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	106 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
-	O TITLE
• for arounded parts at 400 V	
 for grounded parts at 400 V downwards 	30 mm

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	10 a IP20 finger-safe, for vertical contact from the front Handle For use in hazardous locations
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	10 a IP20 finger-safe, for vertical contact from the front
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	10 a IP20 finger-safe, for vertical contact from the front
T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	10 a IP20
T1 value for proof test interval or service life according to IEC 61508	10 a
T1 value for proof test interval or service life according to IEC	
with low demand rate according to SN 31920	
	50 FIT
failure rate [FIT]	
 with high demand rate according to SN 31920 	50 %
with low demand rate according to SN 31920	50 %
proportion of dangerous failures	
with high demand rate according to SN 31920	5 000
B10 value	
Safety related data	
size of the screwdriver tip	3,0 x 0,5 mm
design of screwdriver shaft	Diameter 3 mm
for AWG cables for main contacts	2x (20 12)
— finely stranded without core end processing	2x (0.5 2.5 mm²)
finely stranded with core end processing	2x (0.5 2.5 mm²)
— solid or stranded	2x (0,5 4 mm²)
• for main contacts	
type of connectable conductor cross-sections	
arrangement of electrical connectors for main current circuit	Top and bottom
for main current circuit	spring-loaded terminals
type of electrical connection	
Connections/ Terminals	
— forwards	0 mm
— at the side	30 mm
— upwards — backwards	0 mm
— downwards — upwards	50 mm
— downwards	50 mm
for live parts at 690 V	VIIIII
— at the side — forwards	0 mm
— at the side	30 mm
— upwards — backwards	0 mm
— downwards — upwards	50 mm
— downwards	50 mm
for grounded parts at 690 V	V IIIII
— at the side	9 mm
— downwards — upwards	30 mm
for live parts at 500 V— downwards	30 mm
	3 11111
— upwards — at the side	9 mm
— downwards	30 mm
for grounded parts at 500 V	30 mm
— at the side	9 mm
— upwards	
— downwards	30 mm 30 mm
• for live parts at 400 V	20 mm
— at the side	9 mm
•	
— upwards	30 mm



Confirmation









Declaration of Conformity Test Certificates Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

other









Confirmation



Railway

Confirmation Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RV2011-0JA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0JA20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0JA2

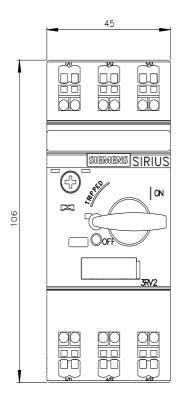
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

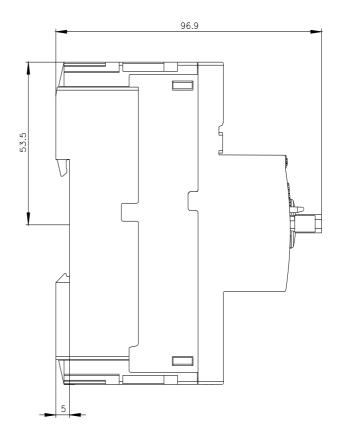
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0JA20&lang=en

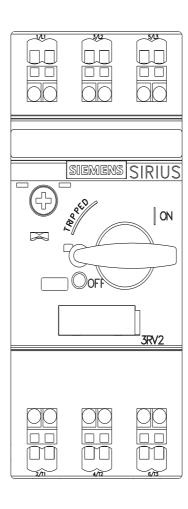
Characteristic: Tripping characteristics, I2t, Let-through current

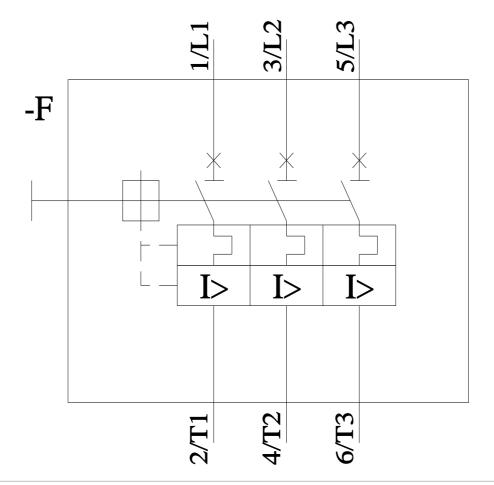
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0JA20/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0JA20&objecttype=14&gridview=view1









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