SIEMENS

Data sheet 3RV2011-0KA20



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.9...1.25 A N-release 16 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
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	0.9 1.25 A

current-dependent overload release	
operating voltage rated value	690 V
operating voltage at AC-3 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
operating power at AC-3	
 at 230 V rated value 	180 W
 at 400 V rated value 	370 W
 at 500 V rated value 	370 W
 at 690 V rated value 	750 W
operating frequency at AC-3 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
breaking capacity operating short-circuit current (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
breaking capacity maximum short-circuit current (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
response value current of instantaneous short-circuit trip unit	16 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	1.25 A
at 600 V rated value	1.25 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 460/480 V rated value	0.5 hp
— 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	1/ 0 40 4
• at 500 V	gL/gG 16 A
• at 690 V	gL/gG 16 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height	106 mm
width	45 mm
depth	97 mm
required spacing	



General Product Approval		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	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		
size of the screwdriver tip	3,0 x 0,5 mm	
design of screwdriver shaft	Diameter 3 mm	
at 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 4 mm) 2x (0.5 2.5 mm²)	
solid or stranded	2x (0,5 4 mm²)	
type of connectable conductor cross-sections • for main contacts		
type of connectable conductor cross-sections		
arrangement of electrical connectors for main current	Top and bottom	
for main current circuit	spring-loaded terminals	
type of electrical connection		
control circuit		
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	O IIIIII	
— at the side — forwards	0 mm	
— packwards — at the side	0 mm 30 mm	
— upwards — backwards	50 mm 0 mm	
— downwards	50 mm	
for grounded parts at 690 V	50 mm	
— 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	3 11111	
— upwards — at the side	9 mm	
— downwards	30 mm 30 mm	
• for grounded parts at 400 V	20	
• for grounded parts at 400 V		









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For use in
hazardous
locations

Declaration of Conformity

Test Certificates

Marine / Shipping





Miscellaneous

Type Test **Certificates/Test** Report

Special Test Certificate



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=3RV2011-0KA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0KA20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0KA20

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0KA20&lang=en

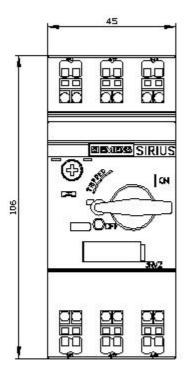
Characteristic: Tripping characteristics, I2t, Let-through current

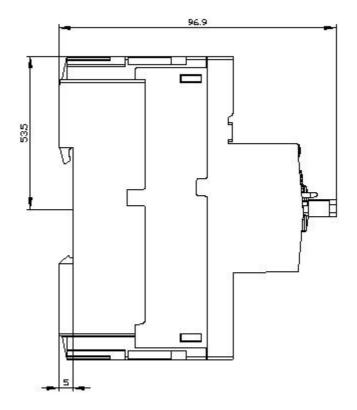
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0KA20/char

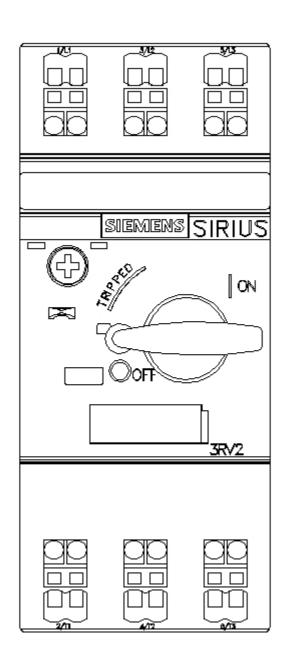
Further characteristics (e.g. electrical endurance, switching frequency)

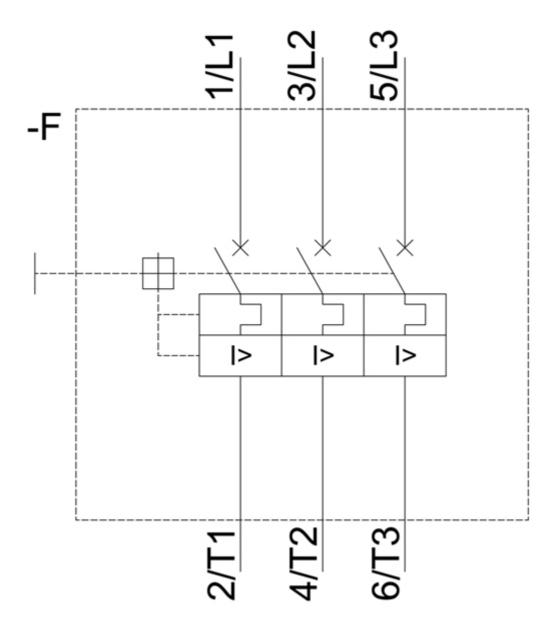
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0KA20&objecttype=14&gridview=view1











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