SIEMENS

Data sheet

3RV2011-0FA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.35...0.5 A N-release 6.5 A screw terminal Standard switching capacity

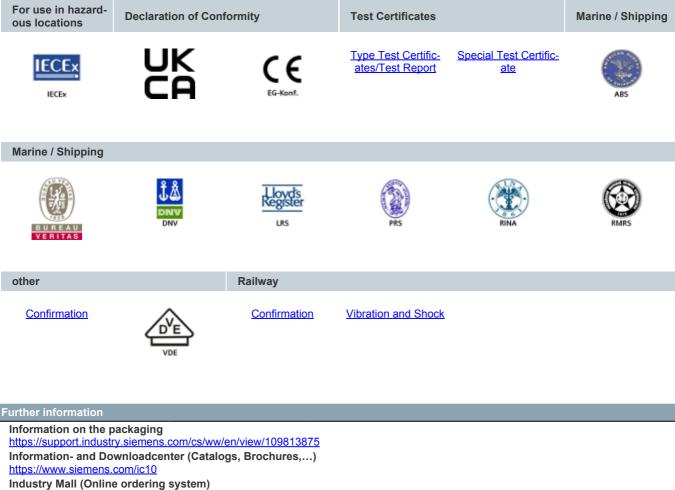
4/17 6/15	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power 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
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
Substance Prohibitance (Date)	10/01/2009
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 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the	0.35 0.5 A
current-dependent overload release	
operating voltage	20 200 1/
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	0.5 A

operational current	
 at AC-3 at 400 V rated value 	0.5 A
 at AC-3e at 400 V rated value 	0.5 A
operating power	
• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.12 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.2 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.12 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.2 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	
 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	
al AC	
e at 240 V rated value	100 kA
• at 240 V rated value	100 kA
at 400 V rated value	100 kA
 at 400 V rated value at 500 V rated value 	100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 	100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip 	100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit 	100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit 	100 kA 100 kA 100 kA
at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor	100 kA 100 kA 100 kA 6.5 A
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 	100 kA 100 kA 100 kA 6.5 A 0.5 A
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 	100 kA 100 kA 100 kA 6.5 A
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 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection product function short circuit protection 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A Yes
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 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A Yes magnetic
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit at 690 V 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A Yes
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A Yes magnetic
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit at 690 V 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A Yes magnetic
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit at 690 V Installation/ mounting/ dimensions 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A Yes magnetic gL/gG 4 A
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method 	100 kA 100 kA 6.5 A 0.5 A 0.5 A Yes magnetic gL/gG 4 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A 7 Ves magnetic gL/gG 4 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height width 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A Yes magnetic gL/gG 4 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A Yes magnetic gL/gG 4 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A Ves magnetic gL/gG 4 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm 97 mm
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting at the side 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A Yes magnetic gL/gG 4 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height with side-by-side mounting at the side for grounded parts at 400 V 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A 0.5 A 0.5 A 2.5 A Yes magnetic gL/gG 4 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm 97 mm 0 mm
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height with side-by-side mounting at the side for grounded parts at 400 V — downwards 	100 kA 100 kA 100 kA 6.5 A 0.5 A
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height with side-by-side mounting at the side for grounded parts at 400 V 	100 kA 100 kA 100 kA 6.5 A 0.5 A 0.5 A 0.5 A 0.5 A 2.5 A Yes magnetic gL/gG 4 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm 97 mm 0 mm

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General Product Approval	For use in hazard ous locations
ertificates/ approvals	
touch protection on the front according to IEC 60529 display version for switching status	finger-safe, for vertical contact from the front Handle
protection class IP on the front according to IEC 60529	IP20
 with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 	50 FIT 10 a
failure rate [FIT]	
• with high demand rate according to SN 31920	50 %
 proportion of dangerous failures with low demand rate according to SN 31920 	50 %
with high demand rate according to SN 31920 properties of dangerous failures	5 000
B10 value	
afety related data	
• for main contacts	M3
design of the thread of the connection screw	
design of screwdriver shaft size of the screwdriver tip	Diameter 5 to 6 mm Pozidriv size 2
• for main contacts with screw-type terminals	0.8 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 mm ²), 2x (0.75 2.5 mm ²)
- solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²
 type of connectable conductor cross-sections for main contacts 	
circuit	
arrangement of electrical connectors for main current	Top and bottom
for main current circuit	screw-type terminals
type of electrical connection	
connections/ Terminals	0 mm
— at the side — forwards	30 mm 0 mm
— backwards	0 mm
— upwards	50 mm
— downwards	50 mm
• for live parts at 690 V	
— forwards	0 mm
— backwards — at the side	0 mm 30 mm
— upwards	50 mm
— downwards	50 mm
 for grounded parts at 690 V 	
— at the side	9 mm
— upwards	30 mm
 Hor live parts at 500 V — downwards 	30 mm
 at the side for live parts at 500 V 	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

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Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0FA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0FA10

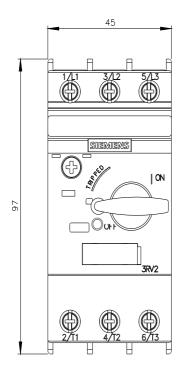
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0FA10&lang=en</u>

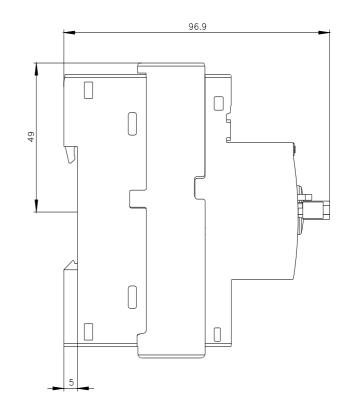
Characteristic: Tripping characteristics, I²t, Let-through current

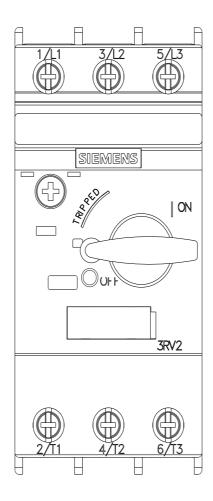
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Further characteristics (e.g. electrical endurance, switching frequency)

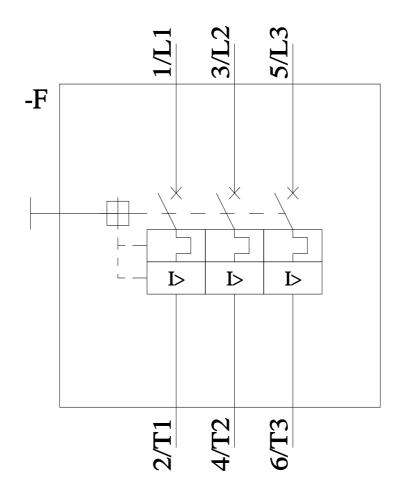
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