SIEMENS

Data sheet

3RV2011-0CA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.18...0.25 A N-release 3.3 A screw terminal Standard switching capacity

2/11 2/12 6/13	
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 current-dependent overload release	0.18 0.25 A
operating voltage	
 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	0.25 A

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operational current	0.05 A
 at AC-3 at 400 V rated value at AC-3e at 400 V rated value 	0.25 A
	0.25 A
operating power • at AC-3	
 at AC-3 — at 230 V rated value 	0 kW
- at 400 V rated value	0.06 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
• at AC-3e	
— at 230 V rated value	0 kW
— at 400 V rated value	0.06 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 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 (lcu)	
 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	3.3 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	0.25 A
• at 600 V rated value	0.25 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
haireh4	60715 07 mm
height	97 mm
width	45 mm
depth required spacing	97 mm
with side-by-side mounting at the side	0 mm
 for grounded parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for live parts at 400 V 	
 for live parts at 400 v — downwards 	30 mm
	30 mm 30 mm

at the side 9 mm • for grounded parts at 500 V 30 mm upwards 30 mm upwards 30 mm at the side 9 mm • for live parts at 500 V	
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forwards 0 mm • for live parts at 690 V 50 mm downwards 50 mm upwards 50 mm backwards 0 mm at the side 30 mm forwards 0 mm	
for live parts at 690 V downwards upwards backwards mm backwards mm at the side forwards mm Connections/ Terminals	
downwards 50 mm upwards 50 mm backwards 0 mm at the side 30 mm forwards 0 mm	
upwards 50 mm backwards 0 mm at the side 30 mm forwards 0 mm	
backwards 0 mm at the side 30 mm forwards 0 mm	
at the side 30 mm forwards 0 mm Connections/ Terminals	
- forwards 0 mm Connections/ Terminals	
Connections/ Terminals	
turne et electricel composition	
type of electrical connection	
for main current circuit screw-type terminals	
arrangement of electrical connectors for main current Top and bottom	
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded 2x (0,75 2,5 mm ²), 2x 4 mm ²	
$- \text{ finely stranded with core end processing} \qquad 2x (0.7 \dots 2.5 \text{mm}^2), 2x (0.75 \dots 2.5 \text{mm}^2)$	
at AWG cables for main contacts 2x (18 14), 2x 12	
tightening torque	
• for main contacts with screw-type terminals 0.8 1.2 N·m	
design of screwdriver shaft Diameter 5 to 6 mm	
size of the screwdriver tip Pozidriv size 2	
design of the thread of the connection screw	
• for main contacts M3	
Safety related data	
• with high demand rate according to SN 31920 5 000	
proportion of dangerous failures	
 with low demand rate according to SN 31920 with high demand rate according to SN 31920 50 % 	
failure rate [FIT] • with low demand rate according to SN 31920 50 FIT	
T1 value for proof test interval or service life according to IEC 61508 10 a	
protection class IP on the front according to IEC IP20	
60529	
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	
display version for switching status Handle	
Certificates/ approvals	
For use	e in hazard-
General Product Approval ous loc	
	-
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	ATEX
For use in hazard-	/ Shinning
For use in hazard- ous locationsDeclaration of ConformityTest CertificatesMarine	/ Shipping

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IECEx	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS			
Marine / Shipping					other			
B UREAU VERITAS		Lloyd's Register urs	PRS	RINA	<u>Confirmation</u>			
other	Railway							
VDE	<u>Confirmation</u>	<u>Vibration and Shock</u>						
Further information								
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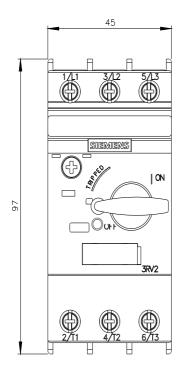
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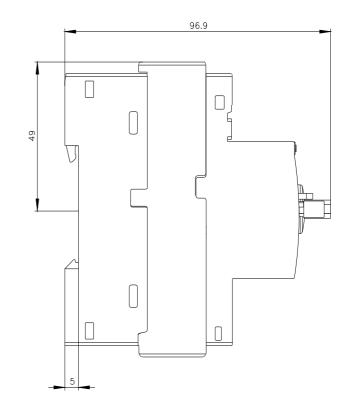
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0CA10

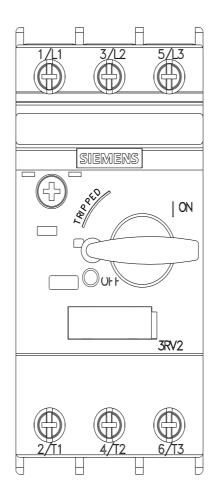
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0CA10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0CA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0CA10&objecttype=14&gridview=view1

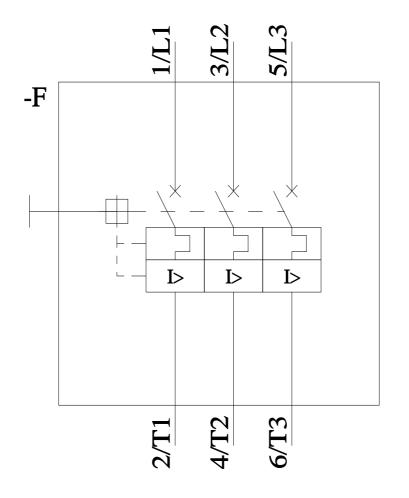






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