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

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
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
Substance Prohibitance (Date)	01.10.2009 00:00:00
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
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	

adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operational current rated value at 300 V rated value at 500 V rated value operating frequency at AC-3 maximum 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts oproduct function • ground fault detection • ground fault detection • ground fault detection ves card of the overload release breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 680 V rated value • at 600 V r		
current-dependent ovarload release operating voltage	number of poles for main current circuit	3
operating voltage * rated value * at AC-3 rated value maximum operating frequency rated value operating frequency rated value operational current at AC-3 operating power at AC-3 * at 230 V rated value * at 400 V rated value * at 400 V rated value * at 500 V rated value * at 500 V rated value * one summer of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts * operating frequency at AC-3 maximum Auxiliary circuit To contacts for auxiliary contacts operating frequency at AC-3 maximum Auxiliary circuit To contacts for auxiliary contacts operating frequency at AC-3 maximum Auxiliary circuit To contacts for auxiliary contacts operating frequency at AC-3 maximum Auxiliary circuit To contacts for auxiliary contacts operating frequency at AC-3 maximum Auxiliary circuit To contacts for auxiliary contacts operating frequency at AC-3 maximum Auxiliary circuit To contacts for auxiliary contacts operating frequency at AC-3 maximum Auxiliary circuit To contacts for auxiliary contacts operating frequency at AC-3 maximum Auxiliary circuit To contacts for auxiliary contacts operating frequency at AC-3 operating frequency		U.18 U.25 A
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operating power at AC-3 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated va	_ ·	
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Protective and monitoring functions product function • ground fault detection • phase failure detection • phase failure detection Yes trip class CLASS 10 design of the overload release breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 690 V rated value • at 690 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 490 V rated value • at AC at 690 V rated value • at AC at 690 V rated value 100 kA 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		
product function • ground fault detection • phase failure detection Yes CLASS 10 design of the overload release breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at AC at 240 V rated value breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value 100 kA breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value 100 kA • 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 • at AC at 690 V rated value 100 kA 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 2.25 A • at 600 V rated value 0.25 A • at 600 V rated value 100 kA Possible of the short-circuit protection product function short circuit protection yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position		0
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full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 5.25 A Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position any	·	
 at 480 V rated value at 600 V rated value 0.25 A Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position 0.25 A Yes magnetic 	UL/CSA ratings	
 at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position any 	full-load current (FLA) for 3-phase AC motor	
Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position any	• at 480 V rated value	0.25 A
product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position Any	• at 600 V rated value	0.25 A
product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position Any	Short-circuit protection	
design of the short-circuit trip magnetic Installation/ mounting/ dimensions any		Yes
Installation/ mounting/ dimensions mounting position any		
mounting position any		
		any
		·
according to DIN EN 60715		according to DIN EN 60715
height 97 mm width 45 mm	-	
depth 97 mm	•	37 111111
required spacing		
• for grounded parts at 400 V		
— downwards 30 mm		
— upwards 30 mm	•	
— at the side 9 mm		9 mm
• for live parts at 400 V	● for live parts at 400 V	
— downwards 30 mm	— downwards	30 mm

— upwards	30 mm
— at the side	9 mm
 for grounded parts at 500 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for live parts at 500 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	No
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
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 2
design of the thread of the connection screw	
for main contacts	M3
Safety related data	
B10 value	
with high demand rate acc. to SN 31920	5 000
proportion of dangerous failures	
with low demand rate acc. to SN 31920	50 %
with high demand rate acc. to SN 31920	50 %
failure rate [FIT]	
with low demand rate acc. to SN 31920	50 FIT
T1 value for proof test interval or service life acc. to IEC 61508	10 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle
Certificates/ approvals	
General Product Approval	For use in hazardous locations
- PP	. 5. 200 11 11221 2020 10021010













Declaration of Conformity

Test Certificates

Marine / Shipping



UK Declaration of Conformity Special Test Certificate Type Test Certificates/Test Report





Marine / Shipping

other











Confirmation

other

Railway



Confirmation

Vibration and Shock

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=3RV2011-0CA10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2011-0CA10}$

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

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, ...)

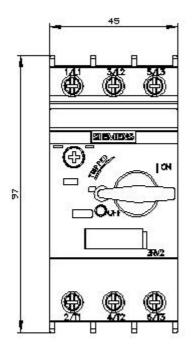
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0CA10&lang=en

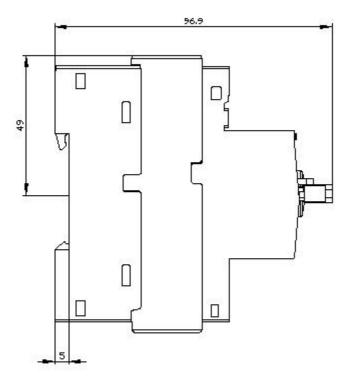
Characteristic: Tripping characteristics, I2t, Let-through current

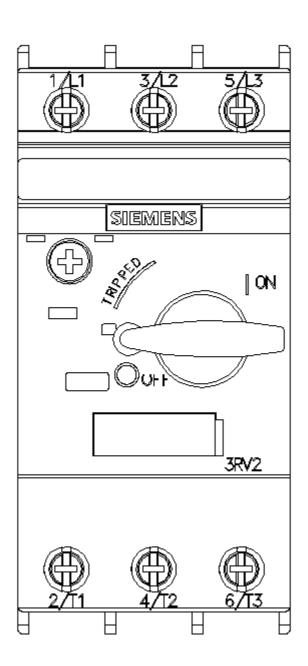
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0CA10/char

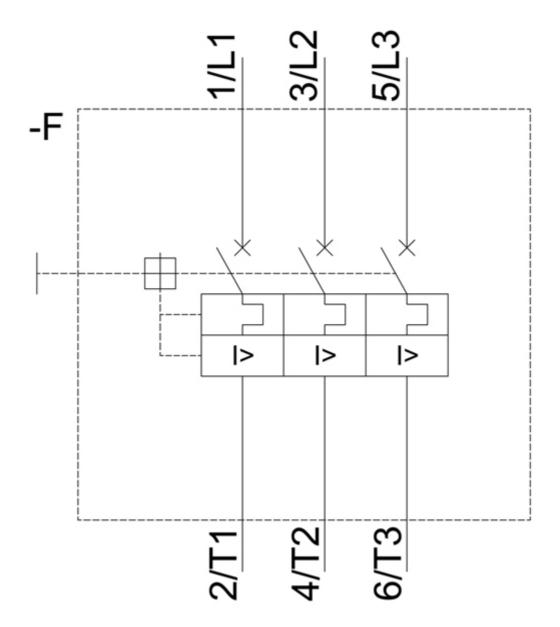
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0CA10&objecttype=14&gridview=view1









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