SIEMENS

Data sheet 3RV2011-0CA40



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.18...0.25 A N-release 3.3 A ring cable lug connection Standard switching capacity

SIRIUS		
Circuit breaker		
For motor protection		
3RV2		
General technical data		
S00		
S00, S0		
Yes		
5.5 W		
1.8 W		
690 V		
6 kV		
25g / 11 ms		
100 000		
100 000		
100 000		
Ex II (2) GD		
DMT 02 ATEX F 001		
Q		
10/01/2009		
2 000 m		
-20 +60 °C		
-50 +80 °C		
-50 +80 °C		
10 95 %		
3		
0.18 0.25 A		
20 690 V		
690 V		
690 V		

operating frequency reted value	50 60 Hz
operating frequency rated value	50 60 Hz 0.25 A
operational current	U.20 A
operational current • at AC-3 at 400 V rated value	0.25 A
	0.25 A 0.25 A
at AC-3e at 400 V rated value	0.20 \(\cappa\)
operating power ● at AC-3	
at AC-3— at 230 V rated value	0 kW
at 230 V rated value at 400 V rated value	0.06 kW
— at 400 V rated value — at 500 V rated value	0.06 kW 0.1 kW
— at 500 V rated value — at 690 V rated value	0.1 kW
at AC-3e	
● at AC-3e — at 230 V rated value	0 kW
— at 200 V rated value — at 400 V rated value	0.06 kW
— at 500 V rated value	0.1 kW
— at 500 V rated value — at 690 V rated value	0.1 kW
operating frequency	
at AC-3 maximum	15 1/h
at AC-3 maximum at AC-3e maximum	15 1/h
Auxiliary circuit	
	0
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	0
	•
Protective and monitoring functions	
product function	No
ground fault detection phase failure detection	No Voc
phase failure detection trip class	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value	100 kA
 at AC at 400 V rated value at AC at 500 V rated value 	100 kA 100 kA
at AC at 500 V rated valueat AC at 690 V rated value	100 KA 100 KA
at AC at 690 V rated value breaking capacity operating short-circuit current (Ics)	TOU IV
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	3.3 A
unit	
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 standard mounting rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
• for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm

— at the side	9 mm
 for live parts at 400 V 	
— 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	
type of electrical connection	
for main current circuit	Ring cable lug connection
for auxiliary and control circuit	ring terminal lug connection
arrangement of electrical connectors for main current	Top and bottom
circuit	4
tightening torque	
 for main contacts for ring cable lug 	0.8 1.2 N·m
for auxiliary contacts for ring cable lug	1.2 0.8 N·m
outer diameter of the usable ring cable lug maximum	7.5 mm
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	size 2 and Pozidriv 2
design of the thread of the connection screw	
 for main contacts 	M3
 of the auxiliary and control contacts 	M3
Safety related data	
B10 value	
 with high demand rate according to SN 31920 	5 000
proportion of dangerous failures	
proportion of dangerous failureswith low demand rate according to SN 31920	50 %
	50 % 50 %
with low demand rate according to SN 31920	
with low demand rate according to SN 31920with high demand rate according to SN 31920	
with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT]	50 %
with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to	50 % 50 FIT
with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] 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	50 % 50 FIT 10 y
with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] 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	50 % 50 FIT 10 y IP00
with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] 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 display version for switching status	50 % 50 FIT 10 y IP00



Confirmation





<u>KC</u>



For use in hazardous locations

Declaration of Conformity

Test Certificates







Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

Confirmation

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=3RV2011-0CA40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0CA40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0CA40

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0CA40&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0CA40/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0CA40&objecttype=14&gridview=view1

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