SIEMENS

Data sheet 3RV2011-0FA40



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.35...0.5 A N-release 6.5 A ring cable lug connection 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
shock resistance according 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 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	0.35 0.5 A
operating voltage	
• rated value	20 690 V
 at AC-3 rated value maximum 	690 V
• at AC-3e rated value maximum	690 V

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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
breaking capacity maximum short-circuit current (Icu)	thermal
• 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 at AC at 500 V rated value	100 kA
at AC at 690 V rated value	100 kA
breaking capacity operating short-circuit current (Ics) at AC	TOO IN
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	6.5 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	0.5 A
• at 600 V rated value	0.5 A
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	
● at 690 V	gL/gG 4 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	97 mm
width	45 mm
depth	97 mm
required spacing	

for grounded parts at 400 V	00
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	20
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
for grounded parts at 500 V	20 mm
— downwards	30 mm 30 mm
— upwards — at the side	9 mm
• for live parts at 500 V	9 111111
— downwards	30 mm
— upwards	30 mm
— upwards — at the side	9 mm
for grounded parts at 690 V	3 111111
— 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	
type of electrical connection • for main current circuit	Ring cable lug connection
for main current circuit	Ring cable lug connection ring terminal lug connection
	Ring cable lug connection ring terminal lug connection Top and bottom
for main current circuit for auxiliary and control circuit	ring terminal lug connection
for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current	ring terminal lug connection
for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit	ring terminal lug connection
for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit tightening torque for main contacts for ring cable lug for auxiliary contacts for ring cable lug	ring terminal lug connection Top and bottom
for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit tightening torque for main contacts for ring cable lug for auxiliary contacts for ring cable lug outer diameter of the usable ring cable lug maximum	ring terminal lug connection Top and bottom 0.8 1.2 N·m
for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit tightening torque for main contacts for ring cable lug for auxiliary contacts for ring cable lug outer diameter of the usable ring cable lug maximum design of screwdriver shaft	ring terminal lug connection Top and bottom 0.8 1.2 N·m 1.2 0.8 N·m 7.5 mm Diameter 5 to 6 mm
for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit tightening torque for main contacts for ring cable lug for auxiliary contacts for ring cable lug outer diameter of the usable ring cable lug maximum design of screwdriver shaft size of the screwdriver tip	ring terminal lug connection Top and bottom 0.8 1.2 N·m 1.2 0.8 N·m 7.5 mm
for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit tightening torque for main contacts for ring cable lug for auxiliary contacts for ring cable lug outer diameter of the usable ring cable lug maximum design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw	ring terminal lug connection Top and bottom 0.8 1.2 N·m 1.2 0.8 N·m 7.5 mm Diameter 5 to 6 mm size 2 and Pozidriv 2
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for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit tightening torque for main contacts for ring cable lug for auxiliary contacts for ring cable lug outer diameter of the usable ring cable lug maximum design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts of the auxiliary and control contacts Safety related data B10 value with high demand rate according to SN 31920	ring terminal lug connection Top and bottom 0.8 1.2 N·m 1.2 0.8 N·m 7.5 mm Diameter 5 to 6 mm size 2 and Pozidriv 2
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Confirmation



<u>KC</u>



For use in hazardous locations

Declaration of Conformity

Test Certificates









Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













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=3RV2011-0FA40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0FA40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0FA40

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

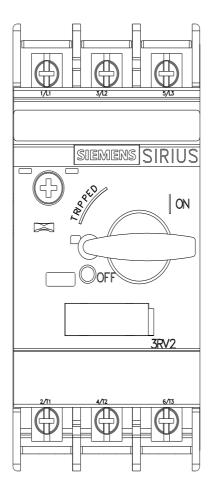
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0FA40&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0FA40/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0FA40&objecttype=14&gridview=view1



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