# **SIEMENS**

Data sheet 3RV2011-0EA40



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.28...0.4 A N-release 5.2 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	
<ul> <li>at AC in hot operating state</li> </ul>	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)	
<ul> <li>of the main contacts typical</li> </ul>	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	
<ul><li>during operation</li></ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-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	0.28 0.4 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V

operating frequency rated value	50 60 Hz
operational current rated value	0.4 A
operational current	
at AC-3 at 400 V rated value	0.4 A
at AC-3e at 400 V rated value	0.4 A
operating power	0.471
• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.09 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	0.09 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	No
ground fault detection     phase failure detection	Yes
phase failure detection	CLASS 10
trip class	
design of the overload release	thermal
<ul> <li>breaking capacity maximum short-circuit current (Icu)</li> <li>at AC at 240 V rated value</li> </ul>	100 kA
at AC at 240 V rated value     at AC at 400 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 value     at AC at 690 V rated value	100 KA 100 kA
breaking capacity operating short-circuit current (Ics)	100 KA
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	5.2 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	0.4 A
• at 600 V rated value	0.4 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
	Tang dable lag connection
for auxiliary and control circuit	ring terminal lug connection
for auxiliary and control circuit  arrangement of electrical connectors for main current	ring terminal lug connection
for auxiliary and control circuit     arrangement of electrical connectors for main current circuit	ring terminal lug connection  Top and bottom
arrangement of electrical connectors for main current	
arrangement of electrical connectors for main current circuit	
arrangement of electrical connectors for main current circuit tightening torque	Top and bottom
arrangement of electrical connectors for main current circuit  tightening torque  • for main contacts for ring cable lug	Top and bottom  0.8 1.2 N·m
arrangement of electrical connectors for main current circuit  tightening torque  • for main contacts for ring cable lug  • for auxiliary contacts for ring cable lug	Top and bottom  0.8 1.2 N⋅m  1.2 0.8 N⋅m
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	Top and bottom  0.8 1.2 N⋅m  1.2 0.8 N⋅m  7.5 mm
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	Top and bottom  0.8 1.2 N⋅m  1.2 0.8 N⋅m  7.5 mm  Diameter 5 to 6 mm
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	Top and bottom  0.8 1.2 N⋅m  1.2 0.8 N⋅m  7.5 mm  Diameter 5 to 6 mm
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	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
arrangement of electrical connectors for main current circuit  tightening torque	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  M3
arrangement of electrical connectors for main current circuit  tightening torque	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  M3
arrangement of electrical connectors for main current circuit  tightening torque	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  M3
arrangement of electrical connectors for main current circuit  tightening torque	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  M3  M3
arrangement of electrical connectors for main current circuit  tightening torque	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  M3  M3
arrangement of electrical connectors for main current circuit  tightening torque	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  M3 M3
arrangement of electrical connectors for main current circuit  tightening torque	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  M3 M3  M3
arrangement of electrical connectors for main current circuit  tightening torque	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  M3 M3  M3
arrangement of electrical connectors for main current circuit  tightening torque	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  M3  M3  5 000
arrangement of electrical connectors for main current circuit  tightening torque	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  M3  M3  5 000  50 %  50 %  50 FIT
arrangement of electrical connectors for main current circuit  tightening torque	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  M3 M3  5 000  50 % 50 % 50 FIT 10 y
arrangement of electrical connectors for main current circuit  tightening torque	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  M3 M3  5 000  50 % 50 % 50 FIT 10 y IP00
arrangement of electrical connectors for main current circuit  tightening torque	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  M3 M3  5 000  50 % 50 % 50 FIT 10 y  IP00



Confirmation









#### 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



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=3RV2011-0EA40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0EA40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0EA40

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

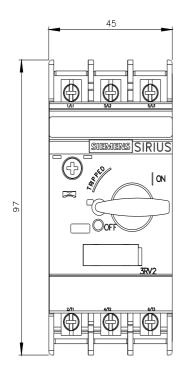
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-0EA40&lang=en

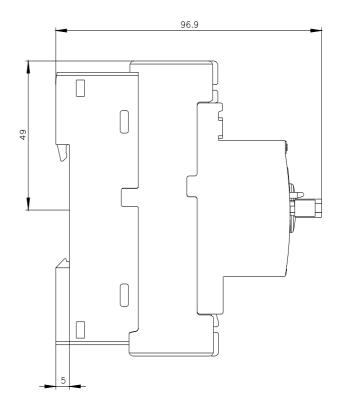
Characteristic: Tripping characteristics, I2t, Let-through current

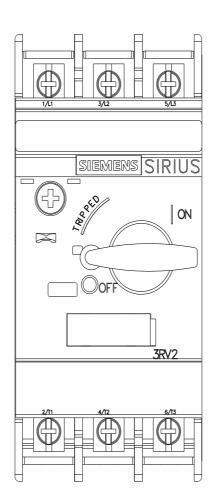
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0EA40/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0EA40&objecttype=14&gridview=view1







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