# **SIEMENS**

Data sheet 3RV2011-0JA40



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.7...1 A N-release 13 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>	7.25 W
at AC in hot operating state per pole	2.4 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	0.7 1 A
operating voltage	
<ul> <li>rated value</li> </ul>	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

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operating frequency rated value	50 60 Hz
operational current rated value	1 A
operational current  • at AC-3 at 400 V rated value	4.0
	1.4
at AC-3e at 400 V rated value	1 A
operating power	
• at AC-3	0.01111
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.25 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.6 kW
• at AC-3e	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.25 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.6 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)	themai
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     at AC at 690 V rated value	100 kA
breaking capacity operating short-circuit current (Ics) at AC	TOU NA
at 240 V rated value	100 kA
at 400 V rated value	100 kA
at 500 V rated value     at 500 V rated value	100 kA
at 690 V rated value     at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip	13 A
unit	10 /
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	1 A
at 600 V rated value	1 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 575/600 V rated value	0.5 hp
Short-circuit protection	
	Voc
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 500 V	gL/gG 10 A
• at 690 V	gL/gG 10 A
Installation/ mounting/ dimensions	3-3-1011
-	any.
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
	according to Diff Life out to

height	97 mm
width	45 mm
depth	97 mm
•	97 11111
required spacing	
• for grounded parts at 400 V	20
— 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
<ul> <li>for live parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
<ul><li>for live parts at 690 V</li></ul>	
— 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
- 101 main our one official	Tring capic rag connection
for auxiliary and control circuit	ring terminal lug 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
for auxiliary and control circuit     arrangement of electrical connectors for main current circuit     tightening torque	ring terminal lug connection  Top and bottom
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 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  0.8 1.2 N·m  1.2 0.8 N·m
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  1.2 0.8 N·m  7.5 mm
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 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  Diameter 5 to 6 mm
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
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	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
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	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
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	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
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	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  M3  M3
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  M3  M3
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  proportion of dangerous failures     with low 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  M3  M3
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  proportion of dangerous failures     with high demand rate according to SN 31920     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  M3  M3  5 000
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  proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920  failure rate [FIT]	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  M3  M3  M3
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  proportion of dangerous failures     with low demand rate according to SN 31920  failure rate [FIT]     with low 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  M3  M3  5 000  50 %  50 %  50 FIT
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  proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920  failure rate [FIT]	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  M3  M3  M3  5 000
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  proportion of dangerous failures     with low 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	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  M3  M3  5 000  50 %  50 %  50 FIT
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  proportion of dangerous failures     with low 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	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  M3  M3  5 000  50 %  50 FIT  10 y

### Certificates/ approvals

#### **General Product Approval**

For use in hazardous locations



Confirmation









For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certificate



## 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=3RV2011-0JA40

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2011-0JA40}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0JA40

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

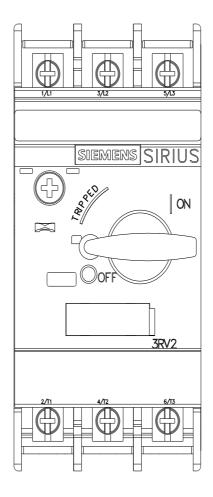
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-0JA40&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0JA40/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0JA40&objecttype=14&gridview=view1



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