## **SIEMENS**

Data sheet 3RV2011-0DA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.22...0.32 A N-release 4.2 A screw terminal Standard switching capacity



•	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
<ul> <li>at AC in hot operating state per pole</li> </ul>	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 (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
of auxiliary contacts typical	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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
number of poles for main current circuit	0.00
adjustable current response value current of the current- dependent overload release	0.22 0.32 A
adjustable current response value current of the current-	0.22 0.32 A
adjustable current response value current of the current- dependent overload release	20 690 V
adjustable current response value current of the current- dependent overload release operating voltage	
adjustable current response value current of the current- dependent overload release operating voltage • rated value	20 690 V

operational current rated value	0.32 A
operational current	0.02 A
operational current  • at AC-3 at 400 V rated value	0.32 A
at AC-3 at 400 V rated value      at AC-3e at 400 V rated value	0.32 A
	0.32 A
operating power  • at AC-3	
— at 230 V rated value	0 kW
— at 400 V rated value	0.09 kW
	0.1 kW
— at 500 V rated value — at 690 V rated value	0.1 kW
• at AC-3e	U. I RVV
— at 230 V rated value	0 kW
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
operating frequency	U. 1 KVV
• 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
maximum short-circuit current breaking capacity (Icu)	Wild High
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
operating short-circuit current breaking capacity (Ics) 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 unit	4.2 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	0.32 A
at 600 V rated value	0.32 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 DIN rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
• 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
— upwards — backwards	0 mm
— at the side	30 mm
— at the side — forwards	0 mm
1 1 1 1	O IIIIII
Connections/ Terminals	
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
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for 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 size 2
design of the thread of the connection screw	
for main contacts	M3
Safety related data	
product function suitable for safety function	Yes
product function suitable for safety function suitability for use	Yes
· · · · · · · · · · · · · · · · · · ·	Yes No
suitability for use	
suitability for use • safety-related switching on	No
suitability for use  • safety-related switching on  • safety-related switching OFF	No Yes
suitability for use  • safety-related switching on  • safety-related switching OFF service life maximum	No Yes 10 a
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary	No Yes 10 a
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures	No Yes 10 a Yes
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920	No Yes 10 a Yes
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920	No Yes 10 a Yes 40 % 50 %
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920	No Yes 10 a Yes 40 % 50 % 5 000
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849	No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1	No Yes 10 a Yes 40 % 50 % 5 000
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary	No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1	No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary	No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508	No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  T1 value  • for proof test interval or service life according to IEC	No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  T1 value  • for proof test interval or service life according to IEC 61508	No Yes 10 a Yes 40 % 50 % 5 000 50 FIT  3 Yes
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety	No Yes 10 a Yes 40 % 50 % 5 000 50 FIT  3 Yes  Type A
suitability for use  • safety-related switching on  • safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  T1 value  • for proof test interval or service life according to IEC 61508	No Yes 10 a Yes 40 % 50 % 5 000 50 FIT  3 Yes

touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front

Display

display version for switching status

Handle

Approvals Certificates

## **General Product Approval**





Confirmation





<u>KC</u>

General Product Approval

For use in hazardous locations

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report Special Test Certificate



Marine / Shipping











**Miscellaneous** 

other

other

Railway

**Environment** 

Confirmation



Special Test Certificate Confirmation







**Environment** 

Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RV2011-0DA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0DA10

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA10

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

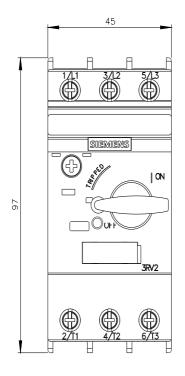
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-0DA10&lang=en

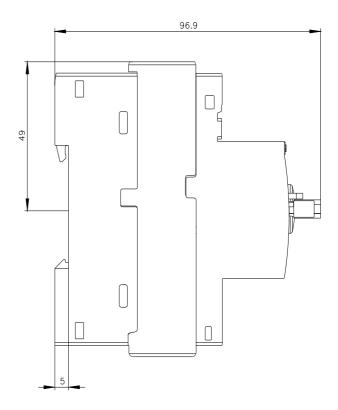
Characteristic: Tripping characteristics, I²t, Let-through current

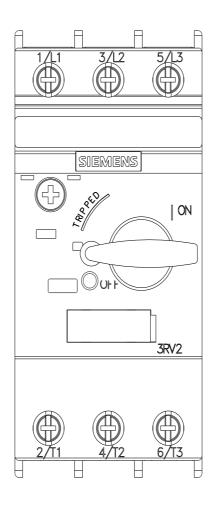
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA10/char

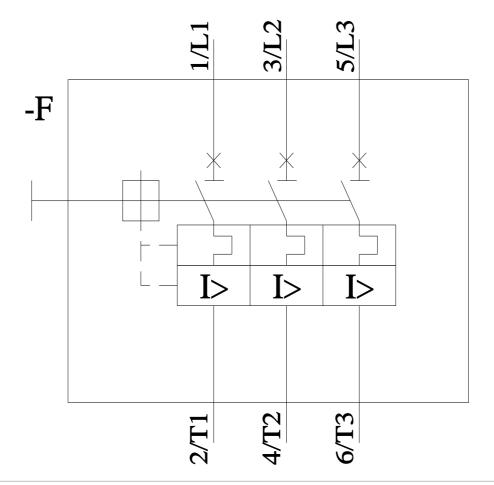
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0DA10&objecttype=14&gridview=view1









last modified: 4/12/2024 🖸