SIEMENS

Data sheet 3RV1011-1DA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 2.2...3.2 A N release 42 A Screw terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	OTT I
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	165
at AC in hot operating state	7.25 W
at AC in hot operating state 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
mechanical service life (operating cycles)	O NV
of the main contacts typical	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)	01/01/2013
SVHC substance name	Lead - 7439-92-1
Ambient conditions	Leau - 7435-52-1
installation altitude at height above sea level maximum	2 000 m
ambient temperature	2 000 111
during operation	-20 +60 °C
	-50 +80 °C
during storageduring transport	-50 +80 °C
relative humidity during operation	10 95 %
lain circuit	10 93 /0
	3
number of poles for main current circuit	2.2 3.2 A
adjustable current response value current of the current- dependent overload release	Z.Z J.Z M
operating voltage	
rated value	20 690 V
• at AC-3 rated value maximum	690 V
• at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
	0.0.4
operational current rated value	3.2 A
operational current rated value operational current	3.2 A
•	3.2 A 3.2 A

operating power	
• at AC-3	
— at 230 V rated value	0.6 kW
— at 400 V rated value	1.1 kW
— at 500 V rated value	1.5 kW
— at 690 V rated value	2.2 kW
• at AC-3e	
— at 230 V rated value	0.6 kW
— at 400 V rated value	1.1 kW
— at 500 V rated value	1.5 kW
— at 690 V rated value	2.2 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	TO THE
number of CO contacts for auxiliary contacts	0
·	· ·
Protective and monitoring functions	
product function	N-
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)	
 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 	3 kA
at AC at 690 V rated value	2 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 	3 kA
 at 690 V rated value 	2 kA
response value current of instantaneous short-circuit trip unit	42 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	3.2 A
• at 600 V rated value	3.2 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.1 hp
— at 230 V rated value	0.25 hp
for 3-phase AC motor	
— at 200/208 V rated value	0.5 hp
— at 220/230 V rated value	0.75 hp
— at 460/480 V rated value	2 hp
— at 400/460 V rated value — at 575/600 V rated value	2 hp
	2 TIP
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 240 V	none required
• at 400 V	gL/gG 40 A
● at 500 V	gL/gG 35 A
• at 690 V	gL/gG 35 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	90 mm
width	45 mm
depth	75 mm
· ·	

required spacing	
 for grounded parts at 400 V 	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
 for live parts at 400 V 	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for grounded parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for live parts at 500 V	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for grounded parts at 690 V	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
• for live parts at 690 V	V
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— at the side — forwards	0 mm
Connections/ Terminals	O IIIIII
type of electrical connection	access to the action and access to the acces
• for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
type of connectable conductor cross-sections • for main contacts	
• for main contacts	2x (0.5 1.5 mm²). 2x (0.75 2.5 mm²). 2x (1 4 mm²)
for main contacts — solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²) 2x (0.5 1,5 mm²), 2x (0,75 2,5 mm²)
 for main contacts — solid or stranded — finely stranded with core end processing 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections	
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded	
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 Yes
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 Yes
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 Yes
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 Yes No Yes 10 a
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 Yes
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 Yes No Yes 10 a Yes
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function 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	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 Yes No Yes 10 a Yes
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function 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	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 Yes No Yes 10 a Yes
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function 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	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 Yes No Yes 10 a Yes 40 % 50 % 5 000
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function 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 failure rate [FIT] with low demand rate according to SN	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 Yes No Yes 10 a Yes
for main contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function 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	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Pozidriv size 2 M3 Yes No Yes 10 a Yes 40 % 50 % 5 000

device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Display	
display version for switching status	Rocker switch
Approvals Certificates	

General Product Approval

Confirmation









<u>KC</u>

General Product Approval

For use in hazardous locations

Test Certificates

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other

Railway **Environment**

Confirmation

Miscellaneous



Special Test Certific-<u>ate</u>

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=3RV1011-1DA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1DA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1DA10

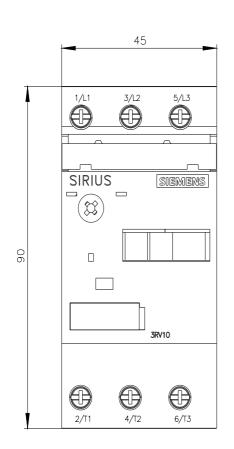
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

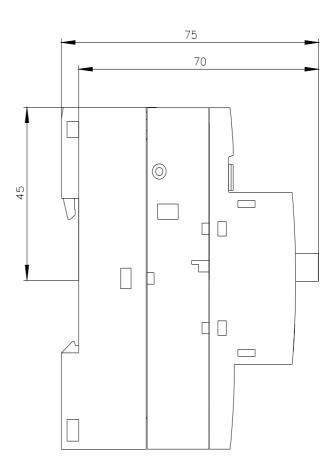
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1DA10&lang=en

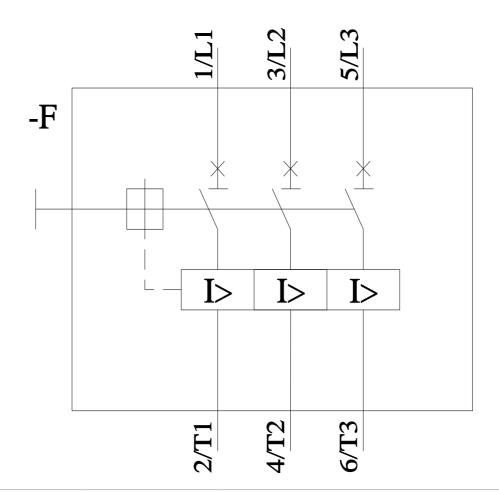
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1DA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1DA10&objecttype=14&gridview=view1







last modified: 4/12/2024 🖸

