SIEMENS

Data sheet 3RV1011-1JA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 7...10 A N release 130 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	
size of the circuit-breaker	\$00
size of contactor can be combined company-specific	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	100
at AC in hot operating state	9.25 W
at AC in hot operating state per pole	3.1 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)	
of the main contacts typical	100 000
of auxiliary contacts typical	100 000
electrical endurance (operating 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)	01/01/2013
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	7 10 A
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
operational current rated value	10 A
operational current	
• at AC-3 at 400 V rated value	10 A

## An AC. at 200 V rated value	at AC-3e at 400 V rated value	10 A
# ## AC-3		IU A
		0.0144
		7.5 KW
— at 900 V rated value operating frequency		
operating frequency in at AC-3 maximum in the Max		
al AC-3 maximum al AC-3 maximum 15 1/h Auxiliary circiuit number of CO contacts for auxiliary contacts Protective and monitoring functions product function • ground fault detection • phase failure detection • phase failure detection • Yes CLASS 10 design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC of SO V rated value • at AC of SO V rated value • at AC of V rated value • at 500 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated value • 5 hp • at 800 V rated value • at 800 V rated value • at 800 V rated value • 5 hp • at 800 V rated value • at 800 V		7.5 kW
author yorcuit number of CO contacts for auxiliary contacts product function		
Auxiliary circuit number of CO contacts for auxiliary contacts product function • ground fault detection • product function • ground fault detection • product fault fau		
number of CO contacts for auxiliary contacts Protective and monitoring functions		15 1/h
Protective and monitoring functions product function • ground fault detection • ground fault detection • product function • product function • product function • prophase failure detection • phase failure detection • Yes CLASS 10 design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 v rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 900 v rated value • at AC at 900 V rated value • at 300 V rated value • at 500 V rated value • at 500 V rated value • at 800 V rated value • at 200 V rated value • at 800 V		
product function • ground fault detection • phase fallur detection • phase fallur detection • provided fallur		0
e ground fault detection Yes trip class CLASS 10 design of the overload release them all t		
• phase failure detection	•	
trip class design of the overload release maximum short-circuit current breaking capacity (icu) at AC at 240 V rated value at AC at 240 V rated value at AC at 590 V rated value at AC at 590 V rated value at AC at 690 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 600 V rated value bridded mechanical performance [tp] at 600 V rated value at 200 V rated value at 200 V rated value bridded mechanical performance [tp] at 600 V rated value at 200 V rated value at 200 V rated value bridded mechanical performance [tp] at 600 V rated value at 200 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value at 200 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] at 600 V rated value bridded mechanical performance [tp] bridded mechanical performance [tp] bridded mec	ground fault detection	
design of the overload release maximum short-circuit current broaking capacity (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value 2	phase failure detection	
maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value 100 kA at AC at 240 V rated value 50 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 100 kA at 240 V rated value 13 kA at 4500 V rated value 3 kA at 500 V rated value 3 kA at 690 V rated value 13 kA at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 130 A UL/CSA ratings 10 A full-load current (FLA) for 3-phase AC motor 10 A at 460 V rated value 10 A vielded mechanical performance [hp] 10 A for single-phase AC motor 1.5 hp -at 200/208 V rated value 1.5 hp for 3-phase AC motor 2 hp -at 200/208 V rated value 3 hp -at 450/400 V rated value 5 hp -at 450/400 V rated value 5 hp -at 450/600 V rated value 7.5 hp Short-circuit protection <td>trip class</td> <td>CLASS 10</td>	trip class	CLASS 10
at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 600 V rated value at 700 V rated value at 700 V rated value at 200 V rated value at 575000 V rated value at 575000 V rated value at 6500 V rated value at 6500 V rated value at 700 V rated value at 6500 V rat	design of the overload release	thermal
	maximum short-circuit current breaking capacity (Icu)	
* at AC at 500 V rated value * at AC at 500 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 13 kA * at 500 V rated value 3 kA * at 600 V rated value 2 kA * at 600 V rated value 3 kA * at 600 V rated value 2 kA response value current of instantaneous short-circuit trip unit 100 kA * at 600 V rated value 100 kA * at 480 V rated value 100 kA * at 480 V rated value 100 kA * at 600 V rated value 100 kA * at 100 V rated value 100 kB	 at AC at 240 V rated value 	100 kA
e at AC at 690 V rated value 2 kA	 at AC at 400 V rated value 	50 kA
operating short-circuit current breaking capacity (lcs) at AC at 240 V rated value at 400 V rated value 3 kA at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 130 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 10 A at 690 V rated value 10 A at 690 V rated value 10 A yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 10 A yielded mechanical performance [hp] for 3-phase AC motor - at 230 V rated value 1.5 hp for 3-phase AC motor - at 200/238 V rated value 2 hp - at 220/230 V rated value 5 hp - at 575/600 V rated value 5 hp - at 575/600 V rated value 5 hp - at 575/600 V rated value 5 hp - at 460,480 V rated value 7.5 hp Short-circuit protection product function short circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 4500 V • at 690 V	 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 500 V rated value at 500 V rated value 2 kA response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 10 A yielded mechanical performance [hp] of or single-phase AC motor - at 110/120 V rated value 10 A yielded mechanical value 10 A yielded me	at 240 V rated value	100 kA
at 690 V rated value response value current of instantaneous short-circuit trip unit UL/GSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 10 A for single-phase AC motor - at 110/120 V rated value 1.5 hp for 3-phase AC motor - at 200/208 V rated value 2 hp - at 220/230 V rated value 3 hp - at 220/230 V rated value 5 hp - at 460/480 V rated value 5 hp - at 575/600 V rated value 5 hp - at 575/600 V rated value 7.5 hp Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 440 V at 450 V at 500 V at 600 V at	 at 400 V rated value 	13 kA
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • of single-phase AC motor — at 110/120 V rated value • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • at 220/230 V rated value — at 220/230 V rated value — at 480/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — by the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 400 V • at 400 V • at 500 V • at 500 V • at 500 V • at 500 V • at 600 V Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height	at 500 V rated value	3 kA
Short-circuit protection Yes	at 690 V rated value	2 kA
full-load current (FLA) for 3-phase AC motor at 480 V rated value to A at 600 V rated value 10 A for single-phase AC motor — at 110/120 V rated value 1.5 hp for single-phase AC motor — at 230 V rated value 1.5 hp for 3-phase AC motor — at 220/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 3 hp — at 575/600 V rated value 5 hp — at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V at 400 V gL/gG 80 A at 400 V at 690 V Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height	response value current of instantaneous short-circuit trip unit	130 A
	UL/CSA ratings	
• at 600 V rated value 10 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 0.5 hp — at 230 V rated value 1.5 hp • for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 5 hp — at 575/600 V rated value 7.5 hp Short-circuit protection product function short circuit protection 4 yes design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 1.5 hp • for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 5 hp — at 575/600 V rated value 7.5 hp Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 600 V at 500 V • at 600 V Installation/ mounting/ dimensions mounting position fastening method height 90 mm	 at 480 V rated value 	10 A
for single-phase AC motor — at 110/120 V rated value	at 600 V rated value	10 A
- at 110/120 V rated value 0.5 hp - at 230 V rated value 1.5 hp • for 3-phase AC motor - at 200/208 V rated value 2 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp 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 240 V • at 400 V • at 400 V • at 400 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height 90 mm	yielded mechanical performance [hp]	
- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value 2 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 400 V • at 400 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height 1.5 hp 1.5 hp 1.5 hp 1.5 hp 2 hp 3 hp 5 hp 7.5 hp Short-circuit protection Yes magnetic yes al 400 A gL/gG 80 A gL/gG 80 A gL/gG 63 A gL/gG 50 A Installation/ mounting/ dimensions mounting position fastening method height 90 mm	 for single-phase AC motor 	
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value Product function short circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 240 V at 400 V at 400 V be at 500 V at 690 V gL/gG 63 A gL/gG 50 A st 690 V Installation/ mounting/ dimensions mounting position fastening method height at 240 M screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height	— at 110/120 V rated value	0.5 hp
- at 200/208 V rated value 2 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp 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 240 V gL/gG 80 A • at 400 V gL/gG 63 A • at 500 V gL/gG 50 A • at 690 V gL/gG 50 A Installation/ mounting/ dimensions mounting position fastening method height 90 mm	— at 230 V rated value	1.5 hp
- at 220/230 V rated value 5 hp - at 460/480 V rated value 7.5 hp 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 240 V gL/gG 80 A • at 400 V gL/gG 63 A • at 500 V gL/gG 50 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	• for 3-phase AC motor	
- at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp 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 240 V gL/gG 80 A • at 400 V gL/gG 63 A • at 500 V gL/gG 50 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	— at 200/208 V rated value	2 hp
- at 575/600 V rated value 7.5 hp Short-circuit protection product function short circuit protection 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 at 400 V at 500 V at 500 V at 690 V Installation/ mounting/ dimensions mounting position fastening method height 7.5 hp 7.5 hp 7.5 hp 7.5 hp 7.5 hp Agustian in protection Yes magnetic gL/gG 80 A gL/gG 80 A gL/gG 63 A gL/gG 63 A gL/gG 50 A gL/gG 50 A screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height	— at 220/230 V rated value	3 hp
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height Pes Magnetic Yes magnetic gL/gG 80 A gL/gG 80 A gL/gG 63 A gL/gG 63 A gL/gG 50 A gL/gG 50 A gL/gG 50 A screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height	— at 460/480 V rated value	5 hp
product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height Yes magnetic Yes magnetic gL/gG 80 A gL/gG 80 A gL/gG 63 A gL/gG 63 A gL/gG 50 A screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	— at 575/600 V rated value	7.5 hp
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height magnetic magnetic magnetic magnetic gL/gG 80 A gL/gG 80 A gL/gG 63 A gL/gG 50 A gL/gG 50 A any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height	Short-circuit protection	
design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height magnetic magnetic magnetic magnetic gL/gG 80 A gL/gG 80 A gL/gG 63 A gL/gG 50 A gL/gG 50 A screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	product function short circuit protection	Yes
design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height gL/gG 80 A gL/gG 63 A gL/gG 50 A gL/gG 50 A gL/gG 50 A publication/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	<u> </u>	magnetic
 at 240 V at 400 V at 500 V at 690 V gL/gG 50 A at 690 V gL/gG 50 A Installation/ mounting/ dimensions mounting position fastening method height gL/gG 50 A gL/gG 63 A gL/gG 50 A	design of the fuse link for IT network for short-circuit	
at 400 V but at 500 V but at 500 V but at 690 V but at 6	protection of the main circuit	
at 500 V but at 690 V control of the steeling method fastening method height gL/gG 50 A gL/gG 50 A gL/gG 50 A g	• at 240 V	gL/gG 80 A
● at 690 V Installation/ mounting/ dimensions mounting position fastening method height purple gL/gG 50 A gL/gG 50 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 90 mm	● at 400 V	
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	● at 500 V	gL/gG 50 A
mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 90 mm	• at 690 V	gL/gG 50 A
fastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height90 mm	Installation/ mounting/ dimensions	
height 90 mm	mounting position	any
<u> </u>	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width 45 mm	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	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection • for main current circuit	corough was townshools
arrangement of electrical connectors for main current	screw-type terminals Top and bottom
circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
tightening torque	
for main contacts with screw-type terminals	0.8 1.2 N·m
for auxiliary contacts with screw-type terminals	0.8 1.2 N·m
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	M2
• for main contacts	M3
Safety related data B10 value	
with high demand rate according to SN 31920	5 000
proportion of dangerous failures	
with low demand rate according to SN 31920	50 %
with high demand rate according to SN 31920 with high demand rate according to SN 31920	50 %
failure rate [FIT]	
with low demand rate according to SN 31920	50 FIT
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 version for switching status	Rocker switch
Certificates/ approvals	
General Product Approval	For use in hazardous locations











Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

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





Marine / Shipping











Miscellaneous

other

other

Railway

Confirmation



Special Test Certificate

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RV1011-1JA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1JA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1JA10

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

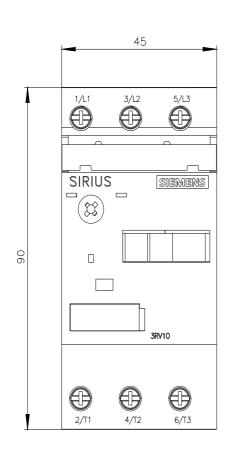
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1JA10&lang=en

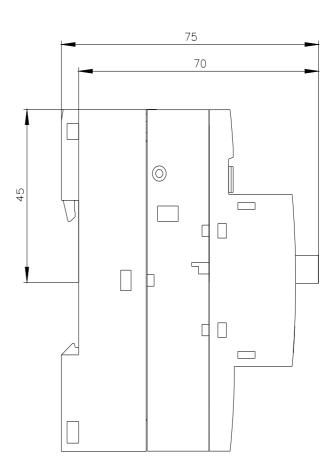
Characteristic: Tripping characteristics, I2t, Let-through current

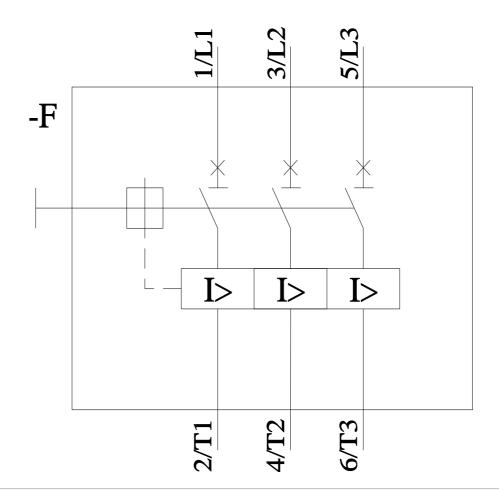
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1JA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1JA10&objecttype=14&gridview=view1







last modified: 11/21/2022 🖸

