SIEMENS

Data sheet 3RV1011-0EA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.28...0.4 A N-release 5.2 A Screw terminal Standard switching capacity with transverse auxiliary switch 1 NO+1 NC

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	S00
size of contactor can be combined company-specific	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	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
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
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	0.28 0.4 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	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	
• at AC-3	

at 230 V rated value		
at 500 V rated value		
— at 800 V rated value — at 200 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — 22 kW operating frequency ■ at AC-3 maximum — 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts ■ 1 ■ number of NC contacts for auxiliary contacts ■ note ■ 1 ■ number of NC contacts for auxiliary contacts ■ note ■ 1 ■ number of NC contacts for auxiliary contacts ■ note ■ 1 ■ number of NC contacts for auxiliary contacts ■ note ■ 1 ■ number of NC contacts for auxiliary contacts ■ note ■ 1 ■ number of NC contacts for auxiliary contacts ■ note ■ 1 ■ number of NC contacts for auxiliary contacts ■ note ■ number of NC contacts for auxiliary contacts ■ note ■ number of NC contacts for auxiliary contacts ■ note ■ number of NC contacts for auxiliary contacts at AC-15 ■ note ■ number of NC contacts for auxiliary contacts at C-15 ■ number of NC contacts for auxiliary contacts at C-15 ■ number of NC contacts for auxiliary contacts at DC-13 ■ number of NC contacts for auxiliary contacts at DC-13 ■ number of NC contacts for auxiliary contacts at DC-13 ■ number of NC contacts for auxiliary contacts at DC-13 ■ number of NC contacts for auxiliary contacts at DC-13 ■ number of NC contacts for auxiliary contacts at DC-13 ■ number of NC contacts for auxiliary contacts at DC-13 ■ number of NC contacts for auxiliary contacts at DC-13 ■ number of NC contact for auxiliary contacts at DC-13 ■ number of NC contact for auxiliary contacts at DC-13 ■ number of NC contact for auxiliary contacts at DC-13 ■ number of NC contact for auxiliary contacts at DC-13 ■ number of NC contact for auxiliary contacts at DC-13 ■ number of NC contact for auxiliary contacts at DC-13 ■ number of NC contact for auxiliary contacts at DC-13 ■ number of NC contact for auxiliary contacts at DC-13 ■ number of NC contact for auxiliary contacts at DC-13 ■ number of NC contact for auxiliary contacts at DC-13 ■ number of NC contact	— at 400 V rated value	0.09 kW
earl ArC-3e	— at 500 V rated value	0.2 kW
— at 230 V rated value — at 500 V rated value — at 600 V rated valu	— 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
— al 690 / rated value operating frequency • alt AC-3 mistimum • alt A	— at 500 V rated value	0.2 kW
operating frequency • at AC-3 emaximum • at		0.2 kW
al AC-3 maximum al AC-3 maximum ber of NC contacts for auxiliary contacts note number of NC contacts for auxiliary contacts 2		0.2 (()
auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts onote number of NC contacts for auxiliary contacts onote number of NO contacts for auxiliary contacts onote number of CO contacts for auxiliary contacts onote number of CO contacts for auxiliary contacts operational current of auxiliary contacts of a contact of auxiliary contacts at AC-15 old 24 V old 110 V old 1120 V old 1120 V old 1120 V operational current of auxiliary contacts at DC-13 old 24 V old 100 V operational current of auxiliary contacts at DC-13 old 24 V old 100 V operational current of auxiliary contacts at DC-13 old 24 V old 100 V operational current of auxiliary contacts at DC-13 old 24 V old 100 V operational current of auxiliary contacts at DC-13 old 24 V old 100 V operational current of auxiliary contacts at DC-13 old 24 V old 100 V operational current of auxiliary contacts at DC-13 old 24 V old 100 V operational current of auxiliary contacts at DC-13 old 24 V old 100 V operational current of auxiliary contacts at DC-13 old 24 V old 100 V old 24 V old 100 V old 24 V old 100 V old 25 V old 26 V old 27		15 1/b
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ground fault detection	Protective and monitoring functions	
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at AC at 500 V rated value at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 240 V rated value at 600 V rated value built UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value built C300 / R300 Short-circuit protection product function short circuit protection design of the fuse link for short-circuit protection of the susiliary switch required 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 None required None required		
at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 400 V rated value at 400 V rated value at 690 V rated value 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 at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V none required None required		
operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value		
at AC at 240 V rated value 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 UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value At 690 V rated value At 890 V rated value		100 KA
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value 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 at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) at 240 V at 400 V		
* at 400 V rated value * at 500 V rated value * at 690 V rated value * at 690 V rated value 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 * at 600 V rated value * ontact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link * for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit * at 240 V* * at 400 V* **Total Value		100 kA
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 at 480 V rated value at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V none required None required None required 		3.2 A
 at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V none required None required None required 	full-load current (FLA) for 3-phase AC motor	3.2 A
contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V C300 / R300 Yes magnetic fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) None required None required		3.2 A
Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic design of the fuse link • for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V None required None required	at 480 V rated value	0.4 A
product function short circuit protection design of the short-circuit trip magnetic of r short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit of at 240 V at 400 V required None required None required		0.4 A
product function short circuit protection design of the short-circuit trip magnetic of r short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit of at 240 V of at 400 V of the short-circuit protection of the auxiliary switch required None required None required	• at 600 V rated value	0.4 A 0.4 A
design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V magnetic magnetic fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) None required None required	at 600 V rated value contact rating of auxiliary contacts according to UL	0.4 A 0.4 A
design of the fuse link • for short-circuit protection of the auxiliary switch required 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 fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) None required None required	at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	0.4 A 0.4 A C300 / R300
 for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) none required None required 	at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection	0.4 A 0.4 A C300 / R300
required 400 Å) design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V none required • at 400 V None required	at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip	0.4 A 0.4 A C300 / R300
design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V None required	at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link	0.4 A 0.4 A C300 / R300 Yes magnetic
 at 240 V at 400 V none required None required 	at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link	0.4 A 0.4 A C300 / R300 Yes magnetic fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk <
• at 400 V None required	at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit	0.4 A 0.4 A C300 / R300 Yes magnetic fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk <
	at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link of ro short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit	0.4 A 0.4 A C300 / R300 Yes magnetic fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
at 500 V None required	at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V	0.4 A 0.4 A C300 / R300 Yes magnetic fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) none required
·	 at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V 	0.4 A 0.4 A C300 / R300 Yes magnetic fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) none required None required
• at 690 V None required	 at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for short-circuit protection of the auxiliary switch required 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 	0.4 A 0.4 A C300 / R300 Yes magnetic fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) none required None required None required

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	00
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
for grounded parts at 500 V— downwards	20 mm
	20 mm
— upwards — at the side	9 mm
for live parts at 500 V	9 Hilli
— 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	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
for main contacts	0 (0 5 4 5 2) 0 (0 5 5 0 5 2)
— 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	2v (0.5
solid or stranded tightening torque	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
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	
• for main contacts	M3
of the auxiliary and control contacts	M3
Safety related data	
B10 value	
	5 000
 with high demand rate according to SN 31920 proportion of dangerous failures 	0 000
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]	00 /0
with low demand rate according to SN 31920	50 FIT
- WILL TOW GOTHANG TALE ACCORDING TO ON 3 1320	VVIII

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

display version for switching status

IP20

finger-safe, for vertical contact from the front

Certificates/ approvals

General Product Approval

For use in hazardous locations

Confirmation











Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate Type Test Certificates/Test Report





Marine / Shipping











Miscellaneous

other

other

Railway

Confirmation



Special Test Certificate

Further information

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=3RV1011-0EA15

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV1011-0EA15}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0EA15

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

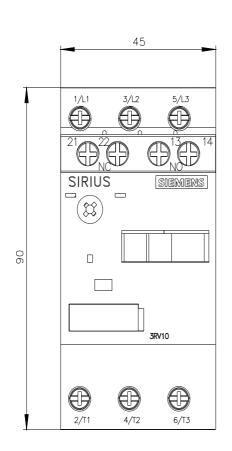
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0EA15&lang=en

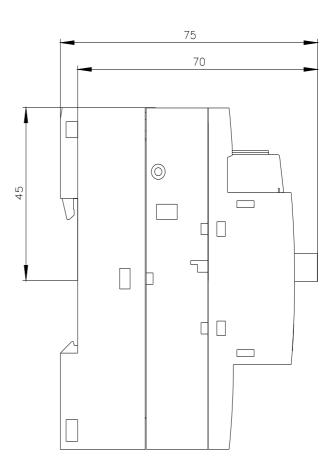
Characteristic: Tripping characteristics, I2t, Let-through current

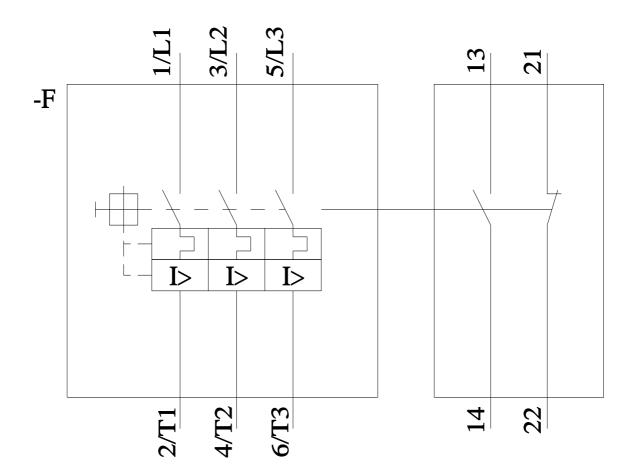
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0EA15/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0EA15&objecttype=14&gridview=view1







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