SIEMENS

Data sheet 3RV1011-0KA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.9...1.25 A N-release 16 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	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
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	0.9 1.25 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	1.25 A
operational current	
 at AC-3 at 400 V rated value 	1.25 A

at AC-3e at 400 V rated value	1.25 A
operating power	
• at AC-3	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.37 kW
— at 500 V rated value	0.6 kW
— at 690 V rated value	0.8 kW
• at AC-3e	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.37 kW
— at 500 V rated value	0.6 kW
— at 690 V rated value	0.8 kW
operating frequency	0.0 KH
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	10 1/11
	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	No
ground fault detection	No Var
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 	100 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 	100 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	16 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	1.25 A
at 600 V rated value	1.25 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	0.5 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the short-circuit trip	
protection of the main circuit	
• at 240 V	none required
• at 400 V	gL/gG 20 A
• at 500 V	gL/gG 16 A
• at 690 V	gL/gG 16 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
	45 mm
depth	75 11111
required spacing	
• for grounded parts at 400 V	20 mm
— downwards — upwards	20 mm 20 mm
	(1) (1)(1)

at the side		
downwards	— at the side	9 mm
- upwards	 for live parts at 400 V 	
- sit the side	— downwards	20 mm
• for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — upwards — at the side • for grounded parts at 800 V — downwards — at the side • for grounded parts at 800 V — downwards — at the side • for grounded parts at 800 V — downwards — upwards — upwards — upwards — backwards — on mm — at the side — for live parts at 800 V — downwards • for live parts at 800 V — downwards • for live parts at 800 V — downwards • for live parts at 800 V — downwards • for live parts at 800 V — downwards • for live parts at 800 V — downwards • for live parts at 800 V — downwards • for live parts at 800 V — downwards • for live parts at 800 V — downwards • for live parts at 800 V — downwards • for live parts at 800 V — downwards — upwards — upward	— upwards	20 mm
downwards upwards upwards of live parts at 500 V downwards upwards upwards upwards upwards upwards upwards downwards downwards downwards downwards downwards downwards downwards downwards upwards upwards upwards upwards upwards backwards upwards downwards of rive parts at 690 V downwards at the side for live parts at 690 V downwards upwards	— at the side	9 mm
upwards	 for grounded parts at 500 V 	
* of the parts at 500 V * downwards	— downwards	20 mm
	— upwards	20 mm
- downwards - upwards - at the side 9 mm • for grounded parts at 890 V - downwards 20 mm - upwards 20 mm - downwards 20 mm - backwards 0 mm - backwards 0 mm - forwards 20 mm - forwards 20 mm - forwards 9 mm • for live parts at 690 V - downwards 20 mm - upwards 20 mm - upwards 9 mm - upwards 9 mm - towards 0 mm - towards 0 mm - at the side 9 mm - forwards 0 mm - at the side 9 mm - forwards 0 mm - rorwards 0 mm - at the side 9 mm - forwards 10 mm - forwards 10 mm - forwards 20 mm - forwards 10 mm - forwards 10 mm - forwards 20 mm - towards 10 mm - forwards 10 mm - forwards 20 mm - forwards 10 mm - forwards 20 mm - forwards 10 mm - forwards 20 mm - forwards 20 mm - forwards 20 mm - forwards 20 mm - forwards 2	— at the side	9 mm
upwards	 for live parts at 500 V 	
- at the side	— downwards	20 mm
• for grounded parts at 680 V — downwards — upwards — backwards — at the side — forwards — forwards • for live parts at 690 V — downwards — forwards • for live parts at 690 V — downwards — upwards — upwards — upwards — upwards — backwards — backwards — at the side — forwards — on mm — forwards — on mm — forwards — on mm — forwards — on mm Connections/Torminals Veps of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main current circuit - solid or stranded — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — solid or stranded • for auxiliary contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for main contexts with screw-type terminals • for main contacts • for main contacts with screw-type terminals • for suskilary contacts	— upwards	20 mm
- downwards	— at the side	9 mm
- upwards	• for grounded parts at 690 V	
backwards at the side forwards for live parts at 690 V downwards upwards backwards backwards backwards backwards at the side forwards on mm backwards on mm	— downwards	20 mm
- at the side	— upwards	20 mm
- for live parts at 690 V - downwards - upwards - upwards - backwards - on mm - backwards - on mm - forwards - on mm - forwards - on mm - forwards - for main current circuit - selid or stranded - for main contacts - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for auxiliary contacts with screw-type terminals - solid or stranded - for auxiliary contacts - solid or stranded - for auxiliary contacts - solid or stranded - for for main current circuit - solid or stranded - for selid in the main contacts - solid or stranded - for selid in stranded - for selid in stranded - for for main contacts with screw-type terminals - for for main contacts - for for main contacts - for for main contacts - for for m	— backwards	0 mm
- for live parts at 690 V - downwards - upwards - upwards - backwards - on mm - backwards - on mm - forwards - on mm - forwards - on mm - forwards - for main current circuit - selid or stranded - for main contacts - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for auxiliary contacts with screw-type terminals - solid or stranded - for auxiliary contacts - solid or stranded - for auxiliary contacts - solid or stranded - for for main current circuit - solid or stranded - for selid in the main contacts - solid or stranded - for selid in stranded - for selid in stranded - for for main contacts with screw-type terminals - for for main contacts - for for main contacts - for for main contacts - for for m		
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- backwards - at the side - forwards - forwards - forwards - formains type of electrical connection • for main current circuit type of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - solid or strander - solid or		
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failure rate [FIT] • with low demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status Certificates/ approvals	 with low demand rate according to SN 31920 	50 %
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protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status Certificates/ approvals	failure rate [FIT]	
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	 with low demand rate according to SN 31920 	50 FIT
display version for switching status Certificates/ approvals Rocker switch	protection class IP on the front according to IEC 60529	IP20
Certificates/ approvals		finger-safe, for vertical contact from the front
	touch protection on the front according to IEC 60529	
		Rocker switch
	display version for switching status	Rocker switch

Confirmation











Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other











Miscellaneous

other

Railway

Confirmation



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

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=3RV1011-0KA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0KA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0KA10

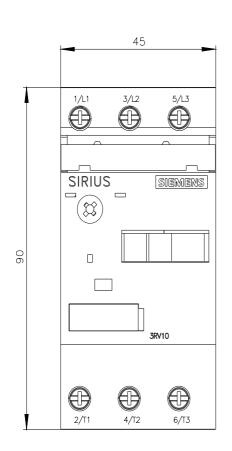
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

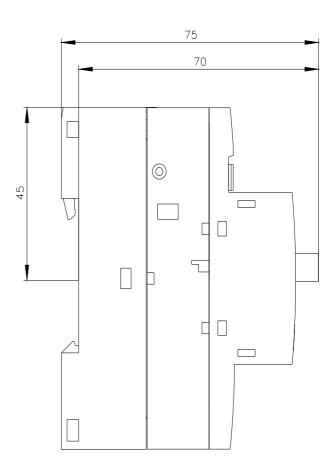
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0KA10&lang=en

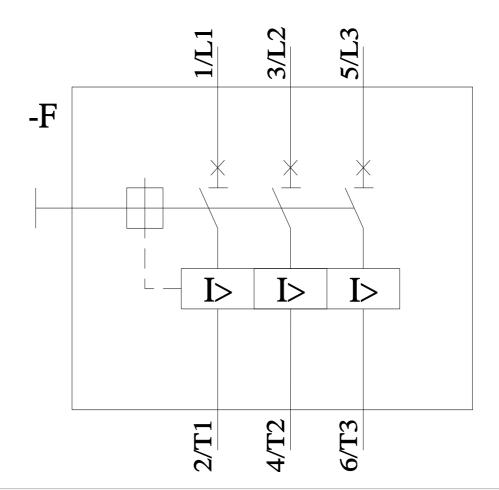
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0KA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0KA10&objecttype=14&gridview=view1







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