SIEMENS

Data sheet 3RV1011-0EA10



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

product designation design of the product product type designation 3RV1 General technical data size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch yes power loss [W] for rated value of the current at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value mechanical service life (operating cycles) of the main contacts typical of which will be contacted and the control of the current of protection according to ATEX directive 2014/34/EU getficial endurance (operating cycles) typical letectrical endurance (operating cycles) typical letectrical endurance (operating cycles) typical letectrical endurance (operating cycles) typical lype of protection according to ATEX directive 2014/34/EU getficiate of suitability according to ATEX directive 2014/34/EU getficiate of	product brand name	SIRIUS
product type designation General technical data size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch yes power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value mechanical service life (operating cycles) • of the main contracts typical • of auxiliary contacts typical • of operating cycles) (100 000 electrical endurance (operating cycles) (100 000 type of protection according to ATEX directive 2014/34/EU EXIL (2) GD certificate of suitability according to ATEX directive 2014/34/EU EXIL (2) GD certificate of suitability according to ATEX directive 2014/34/EU Certificate of suitability according to ATEX directive 2014/34/EU Ambient conditions installation altitude at height above sea level maximum • during operation • during storage • during transport • during transport relative humicity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • operating frequency rated value operational current and value operational current rated value operational current	product designation	Circuit breaker
Size of the circuit-breaker size of the circuit-breaker size of the circuit-breaker size of contactor can be combined company-specific S00 product extension auxiliary switch Yes power loss IWJ for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole 1.8 W insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value 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 Decretificate of suitabil	design of the product	For motor protection
size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical 100 000 1	product type designation	3RV1
size of contactor can be combined company-specific product extension auxiliary switch Power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value 6 kV mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 of protection according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU Substance Prohibitance (Date) Other Company of the Company of th	General technical data	
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at AC in hot operating state at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU Ambient conditions installation altitude at height above sea level maximum ambient temperature oluring operation oluring storage oluring transport elduring storage oluring transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage orated value at AC-3 rated value maximum operating frequency rated value operational current rated value operational current rated value operational current rated value operational current of the Carted value operational current rated value operational current operational current of the current operational current operational current of the current operational current operational current of the current operational current operational current operational current of the current operational current operational current operational current of the current operational current operational current of the current operational current operational current operational current of the current operational current operationa	product extension auxiliary switch	Yes
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insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU preference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature olduring operation olduring storage olduring storage olduring transport relative humidity during operation mumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage orated value operating voltage orated value at AC-3 rated value maximum operating frequency rated value operating frequency rated value operating frequency rated value operational current operational current of the kV mechanical service life (bV EX IV (2) GD EX IV (2) GD EX IV (2) GD CD (2) CD (2) CD (2) EX IV (2) GD CD (2) CD (2) CD (2) OD (3) ATEX F 001 TO 000 OD 000 OD 000 OD 000 EX IV (2) GD OD 000	 at AC in hot operating state 	5.5 W
surge voltage resistance rated value mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical lectrical endurance (operating cycles) typical type of protection according to ATEX directive 2014/34/EU 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 ambient temperature during operation - 40 during storage - 50 +80 °C - 60 "C	 at AC in hot operating state per pole 	1.8 W
mechanical service life (operating cycles) of the main contacts typical of the main contacts typical of auxiliary contacts typical lectrical endurance (operating cycles) typical type of protection according to ATEX directive 2014/34/EU EXII (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) Ambient conditions installation altitude at height above sea level maximum ambient temperature oldring operation during operation oldring storage oldring transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum operating frequency rated value operational current	insulation voltage with degree of pollution 3 at AC rated value	690 V
of the main contacts typical of auxiliary contacts typical loud 000 electrical endurance (operating cycles) typical type of protection according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU porticate of suitability according to EC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation during storage during transport elative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum at Coperations conditions 100 000 100 000 Extra C DATEX F 001 101 0000 101 00	surge voltage resistance rated value	6 kV
of auxiliary contacts typical electrical endurance (operating cycles) typical type of protection according to ATEX directive 2014/34/EU 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) Ambient conditions installation altitude at height above sea level maximum ambient temperature ouring storage during storage during transport relative humidity during operation mumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum at AC-3e rated value operational current rated value operational current rated value operational current rated value operational current rated value operational current rated value operational current rated value operational current rated value operational current rated value operational current out 20	mechanical service life (operating cycles)	
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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 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 operating voltage • rated value 20 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 0.4 A operational current rated value 0.4 A operational current rated value 0.4 A	type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
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installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operational current rated value operational current rated value operational current rated value operational current rated value operational current 2 000 m -20 +60 °C -50 +80 °	reference code according to IEC 81346-2	Q
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 during storage during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum at AC-3e rated value maximum operating frequency rated value operating frequency rated value operational current 	ambient temperature	
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relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 0.4 A	during storage	-50 +80 °C
Main circuit number of poles for main current circuit adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value 0.4 A operational current	during transport	-50 +80 °C
number of poles for main current circuit adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value 50 60 Hz operational current operational current over the current of the current of the current of the current over	relative humidity during operation	10 95 %
adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value 50 60 Hz operational current overational current	Main circuit	
dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value operational current	number of poles for main current circuit	3
 rated value at AC-3 rated value maximum at AC-3e rated value maximum operating frequency rated value operational current rated value operational current 	•	0.28 0.4 A
 at AC-3 rated value maximum at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value operational current 0.4 A 	operating voltage	
● at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 0.4 A operational current	rated value	20 690 V
operating frequency rated value 50 60 Hz operational current rated value 0.4 A operational current	• at AC-3 rated value maximum	690 V
operational current rated value 0.4 A operational current	at AC-3e rated value maximum	690 V
operational current	operating frequency rated value	50 60 Hz
	operational current rated value	0.4 A
• at AC-3 at 400 V 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	0.1 kW
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.2 kW
• at AC-3e	U.Z NVV
	0.4.14M
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.2 kW
operating frequency	
at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
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
	uiciiiai
maximum short-circuit current breaking capacity (Icu)	400 l.A
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	5.2 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	0.4 A
at 600 V rated value	0.4 A
Short-circuit protection	0.171
	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	
	None required
• at 500 V	None required
• at 690 V	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	·
·	20 mm
— downwards	
— upwards	20 mm

— at the side	9 mm
• for grounded parts at 500 V	5
— downwards	20 mm
	20 mm
— upwards	
— 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
— at the side — forwards	0 mm
Connections/ Terminals	Other
type of electrical connection	
for main current circuit	corou tuno torminale
	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 (0,5 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	
• 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 	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
т	
Confirmation	rnr rece (C)











Declaration of Conformity Test Certificates Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other











Confirmation

other

Railway

Miscellaneous



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=3RV1011-0EA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0EA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0EA10

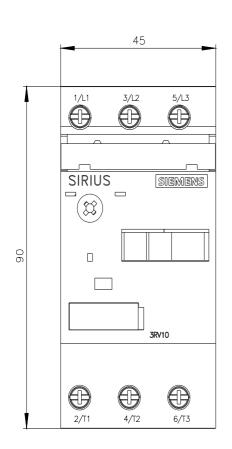
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

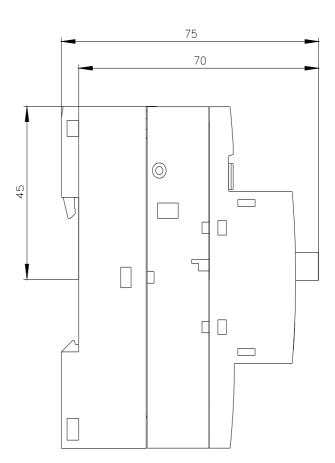
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0EA10&lang=en

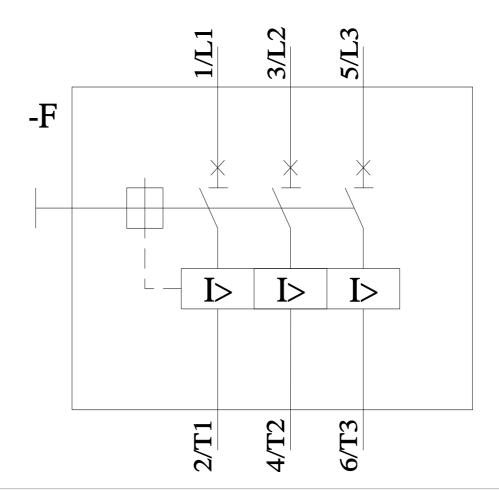
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0EA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0EA10&objecttype=14&gridview=view1







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