SIEMENS

Data sheet 3RV2011-1EA25



Circuit breaker size S00 for motor protection, CLASS 10 A-release 2.8...4 A N release 52 A Spring-type terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

SIRIUS product brand name product designation Circuit breaker design of the product For motor protection product type designation 3RV2 General technical data S00 size of the circuit-breaker size of contactor can be combined company-specific S00, S0 product extension auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state 7.25 W 24 W • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated 690 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 25g / 11 ms 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 Ex II (2) GD 2014/34/EU certificate of suitability according to ATEX directive **DMT 02 ATEX F 001** 2014/34/FU reference code according to IEC 81346-2 10/01/2009 **Substance Prohibitance (Date) Ambient conditions** installation altitude at height above sea level maximum 2 000 m ambient temperature -20 ... +60 °C · during operation -50 ... +80 °C during storage during transport -50 ... +80 °C relative humidity during operation 10 ... 95 % Main circuit number of poles for main current circuit adjustable current response value current of the 2.8 ... 4 A current-dependent overload release operating voltage rated value 20 ... 690 V 690 V • 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 4 A

operational current	
at AC-3 at 400 V rated value	4 A
at AC-3e at 400 V rated value	4 A
operating power	TA
• at AC-3	
— at 230 V rated value	0.8 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	3 kW
• at AC-3e	
— at 230 V rated value	0.8 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	3 kW
operating frequency	
 at AC-3 maximum 	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
● at 24 V	2 A
● at 120 V	0.5 A
● at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A
Protective and monitoring functions	
product function	L.
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)	100 kA
at AC at 400 V rated value at AC at 400 V rated value	100 KA 100 KA
 at AC at 400 V rated value at AC at 500 V rated value 	100 KA 100 KA
at AC at 300 V rated value at AC at 690 V rated value	6 kA
operating short-circuit current breaking capacity (Ics)	O NA
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	4 kA
response value current of instantaneous short-circuit trip	52 A
unit UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	4 A
at 480 V rated value at 600 V rated value	4 A 4 A
at 600 v rated value yielded mechanical performance [hp]	70
for single-phase AC motor	
— at 110/120 V rated value	0.13 hp
— at 230 V rated value	0.33 hp
• for 3-phase AC motor	
— at 200/208 V rated value	0.8 hp
— at 220/230 V rated value	0.75 hp
— at 460/480 V rated value	2 hp
— at 575/600 V rated value	3 hp
contact rating of auxiliary contacts according to UL	C300 / R300

Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	magnotio
for short-circuit protection of the auxiliary switch	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
required	lk < 400 A)
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 400 V	gL/gG 32 A
• at 500 V	gL/gG 32 A
• at 690 V	gL/gG 25 A
Installation/ mounting/ dimensions	<u> </u>
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	106 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
• for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 500 V	·
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— upwards — backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	O TIME
— downwards	50 mm
— upwards	50 mm
— upwards — backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded 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 4 mm²)
finely stranded with core end processing	2x (0.5 2.5 mm²)
— finely stranded without core end processing	2x (0.5 2.5 mm²)
at AWG cables for main contacts	2x (20 12)
type of connectable conductor cross-sections	(,)
• for auxiliary contacts	
— solid or stranded	2x (0.5 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²)
intery character with core one processing	

- finely stranded without core end processing

• at AWG cables for auxiliary contacts

design of screwdriver shaft size of the screwdriver tip

2x (0.5 ... 1.5 mm²) 2x (20 ... 14) Diameter 3 mm 3,0 x 0,5 mm

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
with high demand rate according to SN 31920
50 %

failure rate [FIT]

with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

display version for switching status

10 a IP20

50 FIT

finger-safe, for vertical contact from the front Handle

Certificates/ approvals

General Product Approval

For use in hazardous locations

Confirmation





<u>KC</u>





For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



IECEx





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping







LRS





Confirmation

other

other

Railway



Confirmation

Vibration and Shock

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=3RV2011-1EA25

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1EA25

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

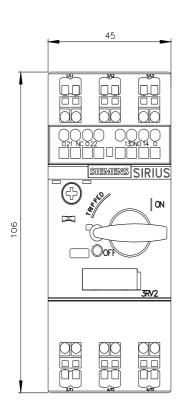
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1EA25

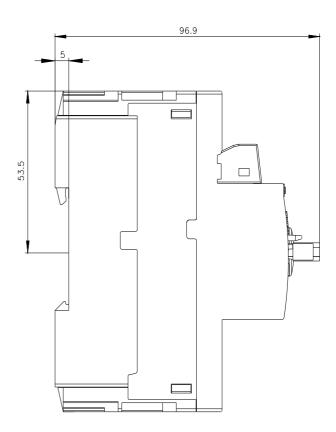
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1EA25&lang=en

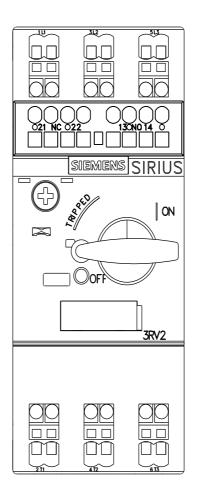
Characteristic: Tripping characteristics, I2t, Let-through current

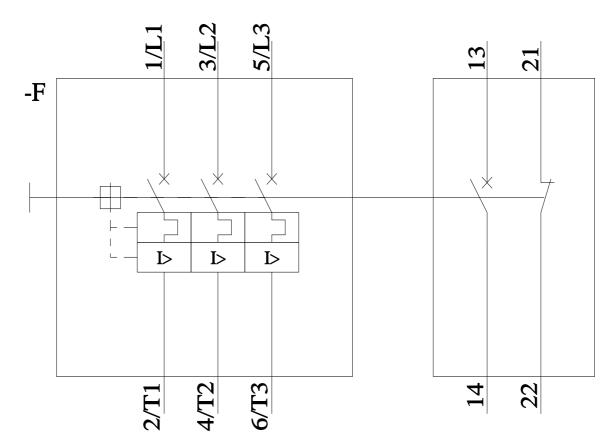
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1EA25/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1EA25&objecttype=14&gridview=view1









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