SIEMENS

3RV2011-1FA25 **Data sheet**



Circuit breaker size S00 for motor protection, CLASS 10 A-release 3.5...5 A N release 65 A Spring-type terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
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
at AC in hot operating state per pole	2.4 W
insulation voltage with degree of pollution 3 at AC rated value	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 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)	10/01/2009
SVHC substance name	Blei - 7439-92-1
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	3.5 5 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	5 A

operational current	u.
at AC-3 at 400 V rated value	5 A
at AC-3e at 400 V rated value	5 A
operating power	
• at AC-3	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 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	
Protective and monitoring functions product function	
Protective and monitoring functions product function • ground fault detection	No
Protective and monitoring functions product function • ground fault detection • phase failure detection	No Yes
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class	No Yes CLASS 10
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release	No Yes
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu)	No Yes CLASS 10 thermal
Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value	No Yes CLASS 10 thermal
Protective and monitoring functions product function • ground fault detection • 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 400 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • 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 500 V rated value • at AC at 500 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • 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 500 V rated value • at AC at 690 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • 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 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA
Protective and monitoring functions product function	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA
Protective and monitoring functions product function • ground fault detection • 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 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 400 V rated value • at 400 V rated value • at 400 V rated value	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA
product function	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA
product function	No Yes CLASS 10 thermal 100 kA
product function	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA
product function	No Yes CLASS 10 thermal 100 kA
product function	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA 4 kA 65 A
product function	No Yes CLASS 10 thermal 100 kA
product function	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA 4 kA 65 A
product function	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA 100 kA 100 kA
product function	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA 100 kA 100 kA
product function	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA 100 kA 100 kA
product function	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA 5 A 5 A 5 A
product function	No Yes CLASS 10 thermal 100 kA 100 hA 100 kA 100 hA 100 h
product function	No Yes CLASS 10 thermal 100 kA 100 hA 100 kA 100 hA 100 h
product function	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 4 kA 65 A 5 A 5 A 5 A
product function	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 4 kA 65 A 5 A 5 A 5 h
product function	No Yes CLASS 10 thermal 100 kA 100 kA 100 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 hA 100 hA 100 hA 100 hA 100 hA 100 hA 1 hp 1 hp



contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	000071000
	Vec
product function short circuit protection	Yes
design of the short-circuit trip design of the fuse link	magnetic
for short-circuit protection of the auxiliary switch required	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400
• for short-orical protection of the auxiliary switch required	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	
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	0
with side-by-side mounting at the side	0 mm
• for grounded parts at 400 V	20
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	20 mm
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 500 V	20 mm
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	20 mm
— downwards	30 mm
— upwards — at the side	30 mm 9 mm
	3 11111
• for grounded parts at 690 V	50 mm
— downwards	50 mm
— upwards	50 mm
— backwards — at the side	0 mm
— forwards	0 mm
for live parts at 690 V— downwards	50 mm
— downwards — upwards	50 mm
— upwards — backwards	0 mm
— at the side	0 mm
— at the side — forwards	0 mm
— forwards Connections/ Terminals	V IIIII
type of electrical connection • for main current circuit	enring loaded terminals
for main current circuit for auxiliary and control circuit	spring-loaded terminals 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)
,	
 for AWG cables for main contacts 	2x (20 12)



• for auxiliary contacts	
— solid or stranded	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 1.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 14)
design of screwdriver shaft	Diameter 3 mm
size of the screwdriver tip	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 	50 %
 with high demand rate according to SN 31920 	50 %
failure rate [FIT]	
 with low demand rate according to SN 31920 	50 FIT
T1 value for proof test interval or service life according to IEC 61508	10 a
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	Handle
Approvale Contification	

Approvals Certificates

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





Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping











Household and similar appliances

other

other

Railway

Environment

Confirmation



Vibration and Shock

Confirmation

Environmental Confirmations

Further informatior

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=3RV2011-1FA25

Cax online generator



http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1FA25

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1FA

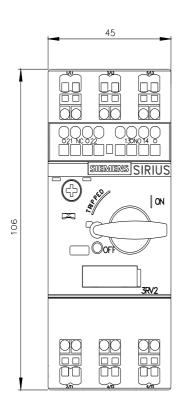
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RV2011-1FA25&lang=en

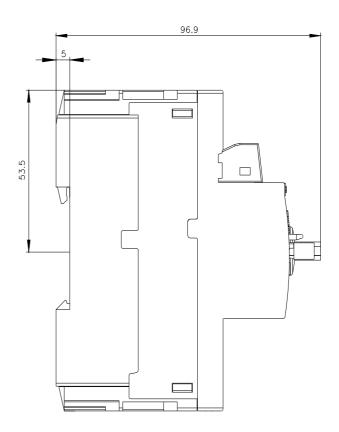
Characteristic: Tripping characteristics, I2t, Let-through current

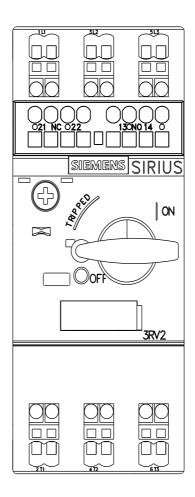
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1FA25/char

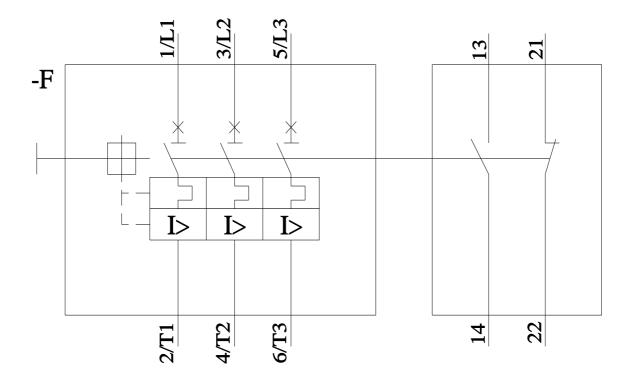
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1FA25&objecttype=14&gridview=view1









last modified: 8/29/2023 🖸