SIEMENS

Data sheet

3RV2011-0AA25



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.11...0.16 A N-release 2.1 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 	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
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	0.11 0.16 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	0.16 A



operational current	
• at AC-3 at 400 V rated value	0.16 A
• at AC-3e at 400 V rated value	0.16 A
operating power	
• at AC-3	
— at 230 V rated value	0 kW
— at 400 V rated value	0.04 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
• at AC-3e	0.1 KW
	0.1247
— at 230 V rated value	0 kW
— at 400 V rated value	0.04 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 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	
	No
product function	No Yes
product function ground fault detection 	
product function ground fault detection phase failure detection trip class	Yes
product function • ground fault detection • phase failure detection trip class design of the overload release	Yes CLASS 10
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu)	Yes CLASS 10 thermal
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	Yes CLASS 10 thermal 100 kA
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	Yes CLASS 10 thermal 100 kA 100 kA
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	Yes CLASS 10 thermal 100 kA 100 kA
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	Yes CLASS 10 thermal 100 kA 100 kA
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 • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA
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 • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA
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 • at AC at 690 V rated value • at AC at 240 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA
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 • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
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 • at AC at 690 V rated value • at 240 V rated value • at AC at 500 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
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 • at AC at 690 V rated value • at 240 V rated value • at AC at 500 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
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 • at AC at 690 V rated value • at 240 V rated value • at AC at 690 V rated value • at 240 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
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 • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 400 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 2.1 A
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 • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 500 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	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 2.1 A
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 • at AC at 690 V rated value • at 240 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 2.1 A
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 • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 2.1 A 0.16 A C300 / R300
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 • at AC at 600 V rated value • at AC at 600 V rated value • at 240 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 2.1 A 0.16 A C300 / R300
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 • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 2.1 A 0.16 A C300 / R300
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 • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 690 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 2.1 A 0.16 A C300 / R300 Yes magnetic
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 • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 2.1 A 0.16 A C300 / R300 Yes magnetic Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400
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 • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 400 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rate	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 2.1 A 0.16 A C300 / R300 Yes magnetic
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 • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 800 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 2.1 A Ves magnetic Yes magnetic Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
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 • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 400 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rate	Yes CLASS 10 thermal 100 kA 2.1 A Ves magnetic Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400



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height	106 mm
width	45 mm
depth	97 mm
-	97 11111
required spacing	0
• 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
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	0 11111
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 4 mm) 2x (0.5 2.5 mm ²)
 — finely stranded with core end processing — finely stranded without core end processing 	
	2x (0.5 2.5 mm ²)
for AWG cables for main contacts	2x (20 12)
type of connectable conductor cross-sections	
for auxiliary contacts	$0 \times (0.5 - 0.5 \text{ mm}^2)$
— solid or stranded	2x (0.5 2.5 mm ²)
 finely stranded with core end processing 	2x (0.5 1.5 mm ²)
- finely stranded without core end processing	2x (0.5 1.5 mm ²)
finely stranded without core end processingfor AWG cables for auxiliary contacts	2x (0.5 1.5 mm²) 2x (20 14)
 finely stranded without core end processing for AWG cables for auxiliary contacts design of screwdriver shaft 	2x (0.5 1.5 mm ²) 2x (20 14) Diameter 3 mm
 finely stranded without core end processing for AWG cables for auxiliary contacts design of screwdriver shaft size of the screwdriver tip 	2x (0.5 1.5 mm²) 2x (20 14)
 finely stranded without core end processing for AWG cables for auxiliary contacts design of screwdriver shaft 	2x (0.5 1.5 mm ²) 2x (20 14) Diameter 3 mm
 finely stranded without core end processing for AWG cables for auxiliary contacts design of screwdriver shaft size of the screwdriver tip 	2x (0.5 1.5 mm ²) 2x (20 14) Diameter 3 mm
	2x (0.5 1.5 mm ²) 2x (20 14) Diameter 3 mm
	2x (0.5 1.5 mm ²) 2x (20 14) Diameter 3 mm 3,0 x 0,5 mm
 finely stranded without core end processing for AWG cables for auxiliary contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value with high demand rate according to SN 31920 	2x (0.5 1.5 mm ²) 2x (20 14) Diameter 3 mm 3,0 x 0,5 mm
 finely stranded without core end processing for AWG cables for auxiliary contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures 	2x (0.5 1.5 mm ²) 2x (20 14) Diameter 3 mm 3,0 x 0,5 mm 5 000
 finely stranded without core end processing for AWG cables for auxiliary contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 	2x (0.5 1.5 mm ²) 2x (20 14) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 %
 finely stranded without core end processing for AWG cables for auxiliary contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 	2x (0.5 1.5 mm ²) 2x (20 14) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 %



11/18/2023

T1 value for proof test i 61508	interval or service life acc	ording to IEC 10 a				
protection class IP on the front according to IEC 60529		IEC 60529 IP20				
		r-safe, for vertical contact from the front				
display version for switching status		Hand	Handle			
Approvals Certificates	-					
General Product App	roval				For use in hazard- ous locations	
<u>Confirmation</u>			KC	EHC	ATEX	
For use in hazard- ous locations	Declaration of Confo	rmity	Test Certificates		Marine / Shipping	
IECEx	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Lloyds Register uis	PRS	RINA	Household and similar appliances	
other		Railway		Environment		
<u>Confirmation</u>		Vibration and Shock	<u>Confirmation</u>	Environmental Con- firmations		
Further information Siemens has decided https://press.siemens.c	to exit the Russian mai		sian-husiness			

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=3RV2011-0AA25

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0AA25

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0AA2

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

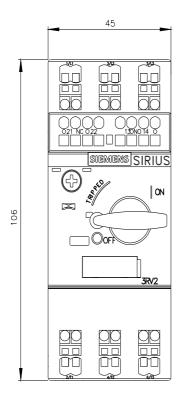
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0AA25&lang=en

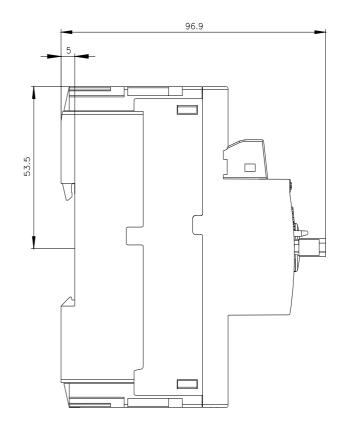
Characteristic: Tripping characteristics, I2t, Let-through current

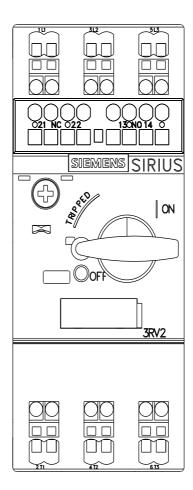
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0AA25/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0AA25&objecttype=14&gridview=view1

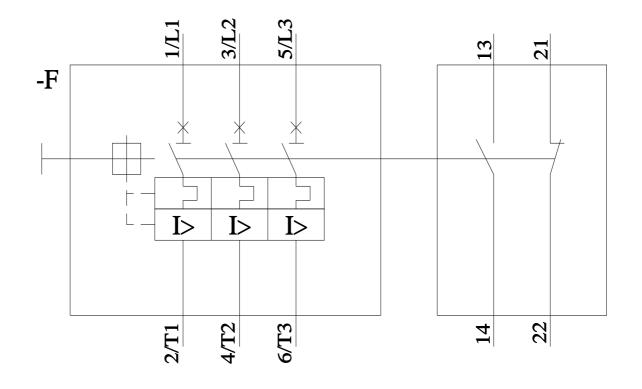












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