SIEMENS

Data sheet 3RV2011-1DA25



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE2.2...3.2A, N-RELEASE 42A, SPRING-L. CONNECTION, STANDARD SW. CAPACITY W. TRANSVERSE AUX. SWITCH 1NO+1NC

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:	
Active power loss total typical	6 W
Insulation voltage	
• with degree of pollution 3 Rated value	690 V
Surge voltage resistance Rated value	6 kV
Mechanical service life (switching cycles)	
• of the main contacts typical	100 000
• of the auxiliary contacts typical	100 000
Electrical endurance (switching cycles)	
• typical	100 000
Temperature compensation	-20 ... +60 °C
Size of contactor can be combined company-specific	S0
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Type of protection	Increased safety
Equipment marking	
• acc. to DIN EN 81346-2	Q

Main circuit:	
Number of poles for main current circuit	3
Adjustable response value current of the current-dependent overload release	2.2 ... 3.2 A
Operating voltage	

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• Rated value	690 V
• at AC-3 Rated value maximum	690 V
Operating frequency Rated value	50 ... 60 Hz
Operating current Rated value	3.2 A
Operating current	
• at AC-3	
— at 400 V Rated value	3.2 A
Operating frequency	
• at AC-3 maximum	15 1/h

Auxiliary circuit:

Number of NC contacts	
• for auxiliary contacts	1
Number of NO contacts	
• for auxiliary contacts	1
Number of CO contacts	
• for auxiliary contacts	0
Product expansion Auxiliary switch	Yes
Design of the auxiliary switch	transverse
Operating current of the 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
Operating current of the auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A

Protective and monitoring functions:

Trip class	CLASS 10
Design of the overload circuit breaker	thermal
Operational short-circuit current breaking capacity (Ics) with 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	10 kA
Maximum short-circuit current breaking capacity (Icu)	
• with AC at 240 V Rated value	100 kA
• with AC at 400 V Rated value	100 kA
• with AC at 500 V Rated value	100 kA
• with AC at 690 V Rated value	10 kA
Breaking capacity short-circuit current (Icn)	

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• with 1 current path for DC at 150 V Rated value	10 kA
• with 2 current paths in series for DC at 300 V Rated value	10 kA
• with 3 current paths in series for DC at 450 V Rated value	10 kA
Response value current of the instantaneous short-circuit release	42 A

UL/CSA ratings:	
Full-load current (FLA) for three-phase AC motor	
• at 480 V Rated value	3.2 A
• at 600 V Rated value	3.2 A
Contact rating of the auxiliary contacts acc. to UL	C300 / R300

Short-circuit:	
Design of the short-circuit trip	magnetic
Design of the fuse link	
• for short-circuit protection of the auxiliary switch required	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik < 400 A)
Design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 400 V	gL/gG 25 A
• at 500 V	gL/gG 32 A
• at 690 V	gL/gG 25 A

Installation/ mounting/ dimensions:	
mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	106 mm
Width	45 mm
Depth	96 mm
Required spacing	
• with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— at the side	30 mm
— downwards	50 mm

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• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	30 mm

Connections/ Terminals:

Product function	
• removable terminal for auxiliary and control circuit	No
Type of electrical connection	
• for main current circuit	spring-loaded terminals
• for auxiliary and control current circuit	spring-loaded terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-section	
• for main contacts	
— single or multi-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 conductors for main contacts	2x (20 ... 12)
• for auxiliary contacts	
— single or multi-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 conductors for auxiliary contacts	2x (20 ... 14)
Design of screwdriver shaft	Diameter 5 to 6 mm

Safety related data:

B10 value with high demand rate acc. to SN 31920	50 000
Proportion of dangerous failures	
• with low demand rate acc. to SN 31920	40 %
• with high demand rate acc. to SN 31920	40 %
T1 value for proof test interval or service life acc. to IEC 61508	10 y
Protection against electrical shock	finger-safe

Mechanical data:

Size of the circuit-breaker	S00

Ambient conditions:

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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 %

Display:

Display version	
• for switching status	Handle

Certificates/ approvals:

General Product Approval					For use in hazardous locations
CCC	CSA	UL	KTL	EAC	ATEX

Declaration of Conformity	Test Certificates			Shipping Approval	
EG-Konf.	Special Test Certificate	Declaration of the Compliance with the order	Type Test Certificates/Test Report	ABS	BUREAU VERITAS

Shipping Approval					
DNV	GL	LRS	PRS	RINA	RMRS

other			
Confirmation	Environmental Confirmations	VDE	other

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

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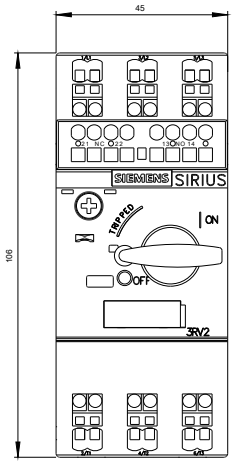
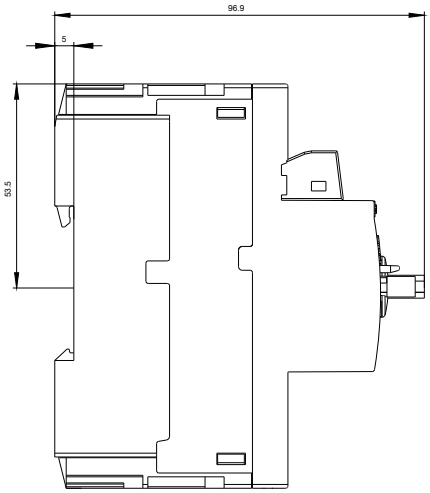
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20111DA25

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RV20111DA25

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV20111DA25&lang=en





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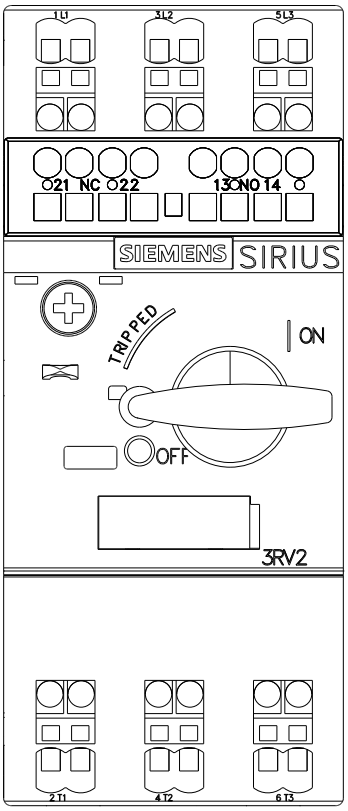

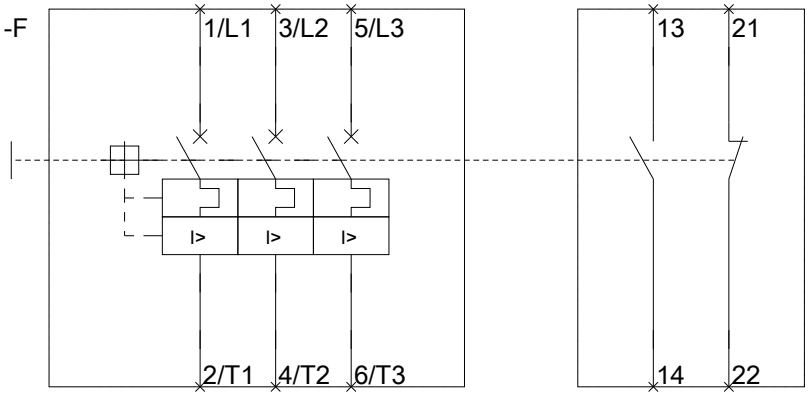

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