SIEMENS

Data sheet 3RV2411-4AA10



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROT. A-RELEASE 10...16A, N-RELEASE 286A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:	
Active power loss total typical	7 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
Protection class IP	
• on the front	IP20
• of the terminal	IP20
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	10 ... 16 A
Operating voltage	
• Rated value	690 V
• at AC-3 Rated value maximum	690 V

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Operating frequency Rated value	50 ... 60 Hz
Operating current Rated value	16 A
Operating current	
• at AC-3	
— at 400 V Rated value	16 A
Operating frequency	
• at AC-3 maximum	15 1/h

Auxiliary circuit:	
Number of NC contacts	
• for auxiliary contacts	0
Number of NO contacts	
• for auxiliary contacts	0
Number of CO contacts	
• for auxiliary contacts	0
Product expansion Auxiliary switch	Yes

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	30 kA
• at 500 V Rated value	5 kA
• at 690 V Rated value	2 kA
Maximum short-circuit current breaking capacity (Icu)	
• with AC at 240 V Rated value	100 kA
• with AC at 400 V Rated value	55 kA
• with AC at 500 V Rated value	10 kA
• with AC at 690 V Rated value	4 kA
Breaking capacity short-circuit current (Icn)	
• 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	286 A

UL/CSA ratings:	
Full-load current (FLA) for three-phase AC motor	
• at 480 V Rated value	16 A
• at 600 V Rated value	16 A

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Short-circuit:	
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	gL/gG 80 A
• at 400 V	gL/gG 63 A
• at 500 V	gL/gG 50 A
• at 690 V	gL/gG 40 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	97 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
• 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	screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom

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Type of connectable conductor cross-section	
• for main contacts	
— single or multi-stranded	2x (0,75 ... 2,5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
• for AWG conductors for main contacts	2x (18 ... 14), 2x 12
Design of screwdriver shaft	Diameter 5 to 6 mm
Design of the thread of the connection screw	
• for main contacts	M3
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:	
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:	

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General Product Approval				Declaration of Conformity	Test Certificates
CCC	CSA	KTL	EAC	EG-Konf.	Type Test Certificates/Test Report

Test Certificates		Shipping Approval			
Special Test Certificate	Declaration of the Compliance with the order	ABS	BUREAU VERITAS	DNV	GL

Shipping Approval				other	
LRS	PRS	RINA	RMRS	Confirmation	Environmental Confirmations

other	
VDE	other

Further information

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

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=3RV24114AA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RV24114AA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV24114AA10&lang=en

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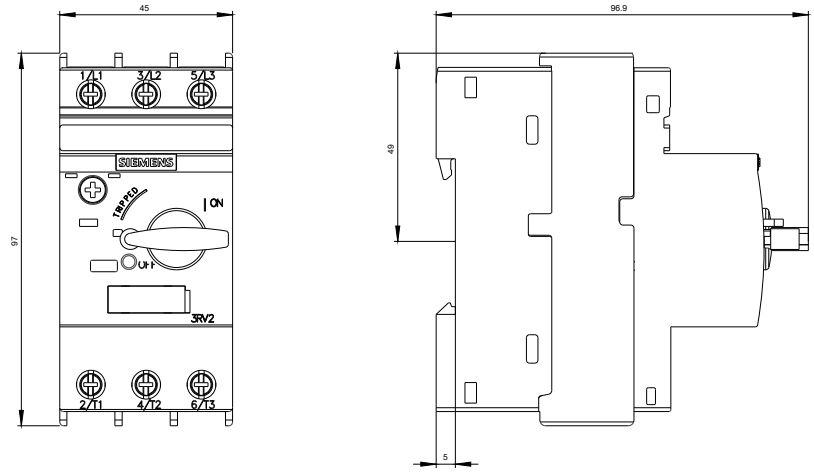

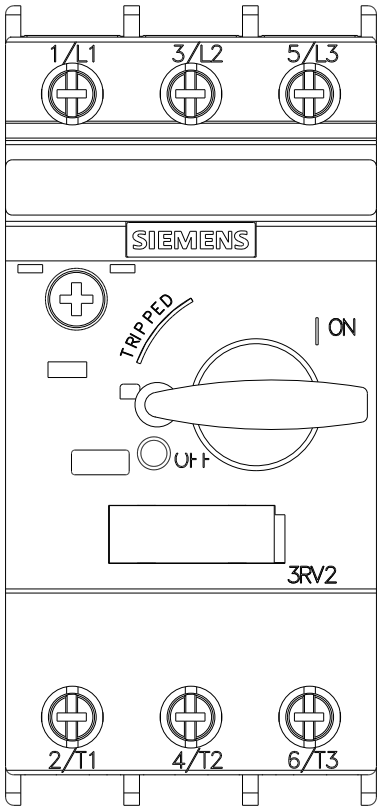

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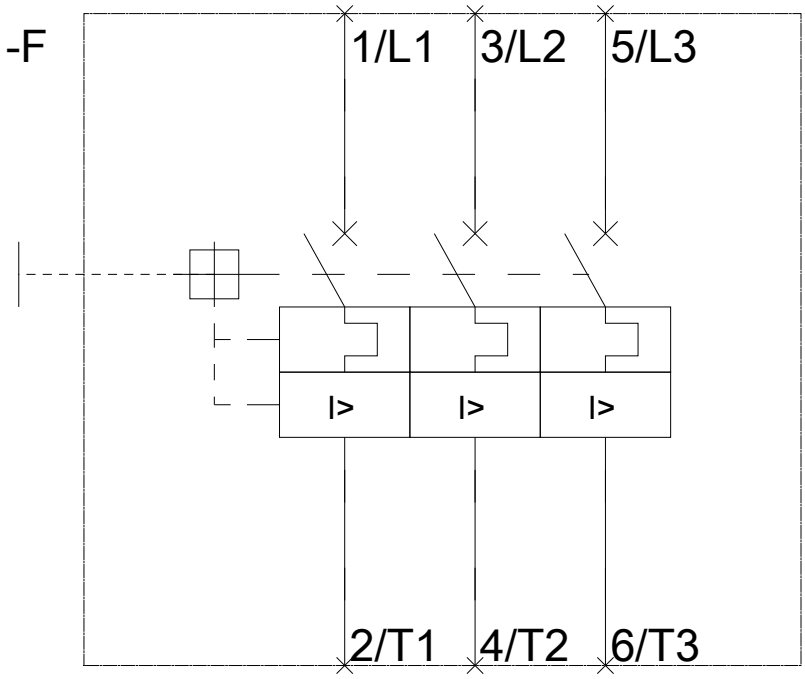

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