

Circuit breaker size S00 for transformer protection A-release
0.45...0.63 A N-release 13 A screw 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 transformer 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] total typical	5 W
Insulation voltage with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
• in networks with grounded star point between main and auxiliary circuit	400 V
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Protection class IP	

• on the front • of the terminal	IP20 IP20
Shock resistance	
• acc. to IEC 60068-2-27	25g / 11 ms
Mechanical service life (switching cycles)	
• of the main contacts typical • of auxiliary contacts typical	100 000 100 000
Electrical endurance (switching cycles)	
• typical	100 000
Certificate of suitability relating to ATEX	on request
Protection against electrical shock	finger-safe

Ambient conditions

Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
• during operation • during storage • during transport	-20 ... +60 °C -50 ... +80 °C -50 ... +80 °C
Temperature compensation	-20 ... +60 °C
Relative humidity during operation	10 ... 95 %

Main circuit

Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	0.45 ... 0.63 A
Operating voltage	
• rated value • at AC-3 rated value maximum	690 V 690 V
Operating frequency rated value	50 ... 60 Hz
Operating current rated value	0.63 A
Operating current	
• at AC-3 — at 400 V rated value	0.63 A
Operating power	
• at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value	90 W 180 W 180 W 250 W
Operating frequency	
• at AC-3 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
Operating current of auxiliary contacts at AC-15 • at 24 V • at 120 V • at 125 V • at 230 V	2 A 0.5 A 0.5 A 0.5 A
Operating current of auxiliary contacts at DC-13 • at 24 V • at 60 V	1 A 0.15 A

Protective and monitoring functions

Product function • Ground fault detection • Phase failure detection	No Yes
Trip class	CLASS 10
Design of the overload release	thermal
Operational short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	100 kA 100 kA 100 kA 100 kA
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	100 kA 100 kA 100 kA 100 kA
Breaking capacity short-circuit current (Icn) • at 1 current path at DC at 150 V rated value • with 2 current paths in series at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value	10 kA 10 kA 10 kA
Response value current • of instantaneous short-circuit trip unit	13 A

UL/CSA ratings

Full-load current (FLA) for three-phase AC motor	
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• at 480 V rated value	0.63 A
• at 600 V rated value	0.63 A
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 • for short-circuit protection of the auxiliary switch required	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current $I_k < 400$ A)
Design of the fuse link for IT network for short-circuit protection of the main circuit • at 690 V	gL/gG 6 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	
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removable terminal for auxiliary and control circuit	No
Type of electrical connection - for main current circuit - for auxiliary and control current circuit	screw-type terminals screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-sections - for main contacts - single or multi-stranded - finely stranded with core end processing - at AWG conductors for main contacts	2x (0,75 ... 2,5 mm ²), 2x 4 mm ² 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (18 ... 14), 2x 12
Type of connectable conductor cross-sections - for auxiliary contacts - single or multi-stranded - finely stranded with core end processing - at AWG conductors for auxiliary contacts	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14)
Tightening torque - for main contacts with screw-type terminals - for auxiliary contacts with screw-type terminals	0.8 ... 1.2 N·m 0.8 ... 1.2 N·m
Design of screwdriver shaft	Diameter 5 to 6 mm
Size of the screwdriver tip	Pozidriv 2
Design of the thread of the connection screw - for main contacts - of the auxiliary and control contacts	M3 M3

Safety related data

B10 value with high demand rate acc. to SN 31920	5 000
Proportion of dangerous failures - with low demand rate acc. to SN 31920 - with high demand rate acc. to SN 31920	50 % 50 %
Failure rate [FIT] with low demand rate acc. to SN 31920	50 FIT
T1 value for proof test interval or service life acc. to IEC 61508	10 y
Display version for switching status	Handle

Certificates/approvals

General Product Approval	Declaration of Conformity
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[KC](#)



Test Certificates	Marine / Shipping
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[Type Test
Certificates/Test
Report](#)

[Special Test
Certificate](#)



Marine / Shipping	other
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[Confirmation](#)



[Miscellaneous](#)

Railway

[Vibration and Shock](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2411-0GA15>

Cax online generator

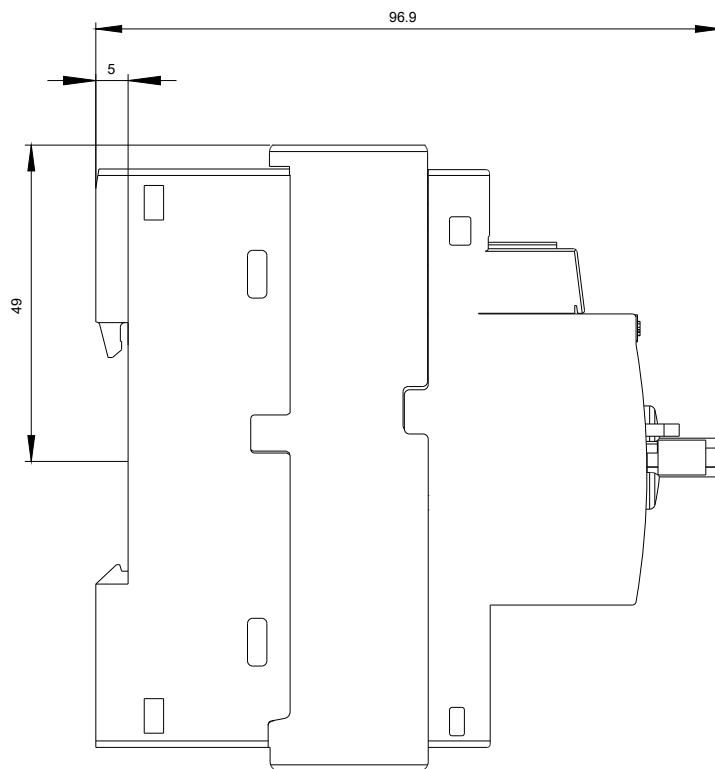
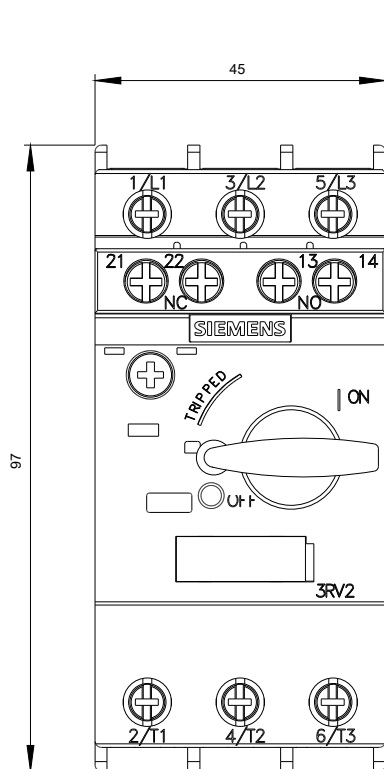
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-0GA15>

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

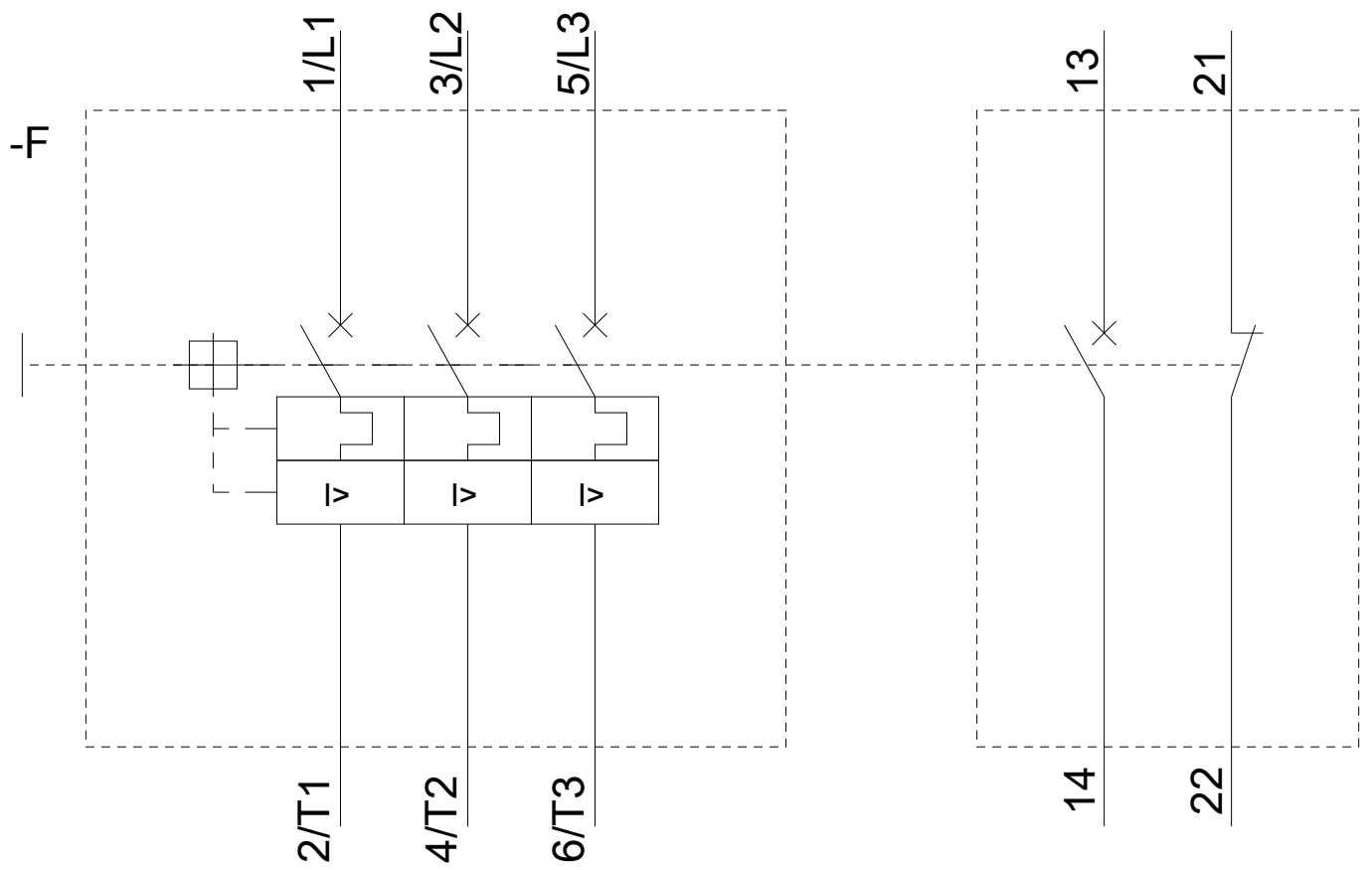
<https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0GA15>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-0GA15&lang=en







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