



CIRCUIT BREAKER, SIZE S2, FOR TRANSFORMER PROTECTION, A-RELEASE 18...25A, N-RELEASE 500A, SCREW TERMINAL, STANDARD BREAKING CAPACITY

Figure similar

product brand name	SIRIUS
Product designation	3RV2 circuit breaker
General technical data:	
Size of contactor can be combined company-specific	S2
Product expansion	
• Auxiliary switch	Yes
Active power loss total typical	12 W
Insulation voltage	
• with degree of pollution 3 Rated value	690 V
Surge voltage resistance Rated value	6 kV
Protection class IP	
• on the front	IP20
• of the terminal	IP00
Mechanical service life (switching cycles)	
• of the main contacts typical	50 000
• of the auxiliary contacts typical	50 000
Electrical endurance (switching cycles)	
• typical	50 000
Temperature compensation	-20 ... +60 °C
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:	
Adjustable response value current of the current-dependent overload release	18 ... 25 A
Operating voltage	
• Rated value	690 V
• at AC-3 Rated value maximum	690 V
Operating frequency Rated value	50 ... 60 Hz
Operating current Rated value	25 A
Operating current	
• at AC-3	
— at 400 V Rated value	25 A
Operating power	
• at AC-3	
— at 230 V Rated value	5 500 W
— at 400 V Rated value	11 000 W
— at 500 V Rated value	15 000 W
— at 690 V Rated value	22 000 W
Operating frequency	
• at AC-3 maximum	15 1/h
Protective and monitoring functions:	
Trip class	CLASS 10
Design of the overload circuit breaker	thermal
Operational short-circuit current breaking capacity (Ics) at AC	
• at 240 V Rated value	100 A
• at 400 V Rated value	30 kA
• at 500 V Rated value	6 kA
• at 690 V Rated value	3 kA
Maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V Rated value	100 kA
• with AC at 400 V Rated value	65 kA
• at AC at 500 V Rated value	12 kA
• at AC at 690 V Rated value	5 kA
Response value current of the instantaneous short-circuit release	512 A
UL/CSA ratings:	
Full-load current (FLA) for three-phase AC motor	
• at 480 V Rated value	25 A
• at 600 V Rated value	25 A

yielded mechanical performance [hp]	
• for single-phase AC motor — at 110/120 V Rated value — at 230 V Rated value • for three-phase AC motor — at 200/208 V Rated value — at 220/230 V Rated value — at 460/480 V Rated value — at 575/600 V Rated value	2 hp 5 hp 7.5 hp 10 hp 20 hp 25 hp

Short-circuit:

Design of the short-circuit trip	magnetic
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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	140 mm
Width	55 mm
Depth	149 mm
Required spacing	• with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side • for grounded parts — forwards — Backwards — upwards — at the side — downwards • for live parts — forwards — Backwards — upwards — downwards — at the side

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
Type of connectable conductor cross-section	
• for main contacts	
— single or multi-stranded	2x (1 ... 25 mm²), 1x (1 ... 35 mm²)
— finely stranded with core end processing	2x (1 ... 16 mm²), 1x (1 ... 25 mm²)
• for AWG conductors for main contacts	2x (18 ... 3), 1x (18 ... 2)
Design of screwdriver shaft	Diameter 5 to 6 mm
Design of the thread of the connection screw	
• for main contacts	M6

Safety related data:

T1 value for proof test interval or service life acc. to IEC 61508	10 y
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Mechanical data:

Size of the circuit-breaker	S2
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Display:

Display version	
• for switching status	Handle

Certificates/ approvals:

General Product Approval	other
 CSA	Bestätigungen Umweltbestätigung
 UL	

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

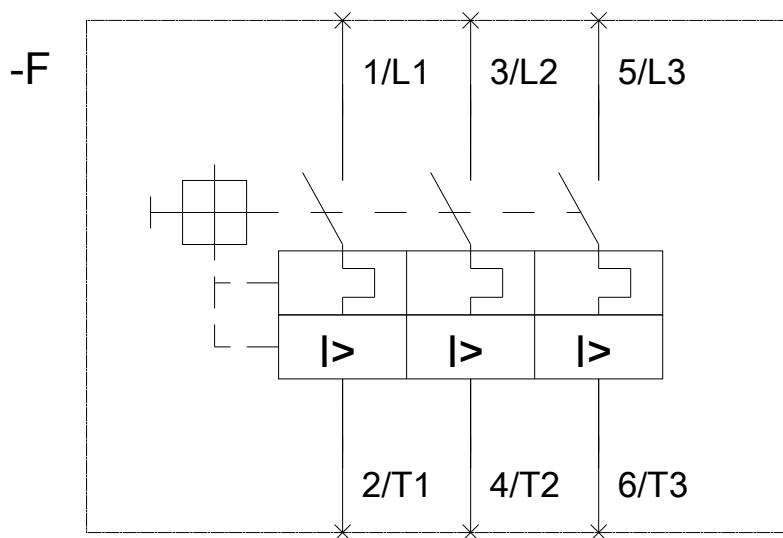
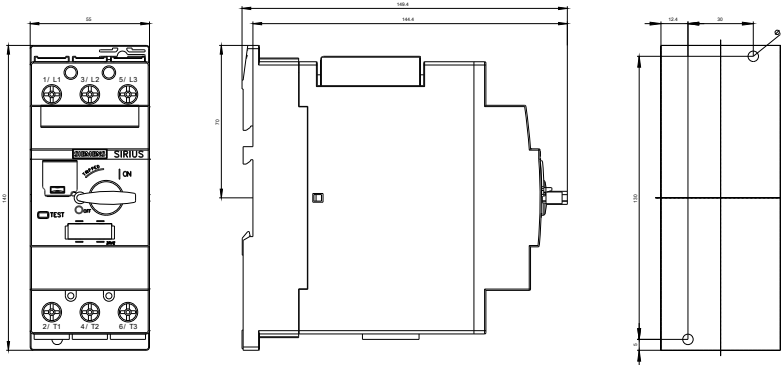
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV24314DA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV24314DA10>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV24314DA10&lang=en



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