SIEMENS

Data sheet 3RV2031-4PA10

Figure similar

CIRCUIT BREAKER, SIZE S2, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 28...36A, N-RELEASE 520A, SCREW TERMINAL, STANDARD BREAKING CAPACITY

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:	
Active power loss total typical	15 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	50 000
• of the auxiliary contacts typical	50 000
Electrical endurance (switching cycles)	
• typical	50 000
Temperature compensation	-20 ... +60 °C
Size of contactor can be combined company-specific	S2
Protection class IP	
• on the front	IP20
• of the terminal	IP00
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	28 ... 36 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	36 A
Operating current	
• at AC-3	
— at 400 V Rated value	36 A
Operating frequency	
• at AC-3 maximum	15 1/h

Auxiliary circuit:	
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 A
• 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	65 kA
• with AC at 500 V Rated value	10 kA
• with AC at 690 V Rated value	4 kA
Response value current of the instantaneous short-circuit release	520 A

UL/CSA ratings:	
Full-load current (FLA) for three-phase AC motor	
• at 480 V Rated value	36 A
• at 600 V Rated value	36 A

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	none required
• at 400 V	125
• at 500 V	100
• at 690 V	80

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	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	10 mm
— downwards	50 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	10 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
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:	
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529

Mechanical data:	
Size of the circuit-breaker	S2

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:

General Product Approval		other	
CSA	UL	Confirmation	Environmental Confirmations

Further information

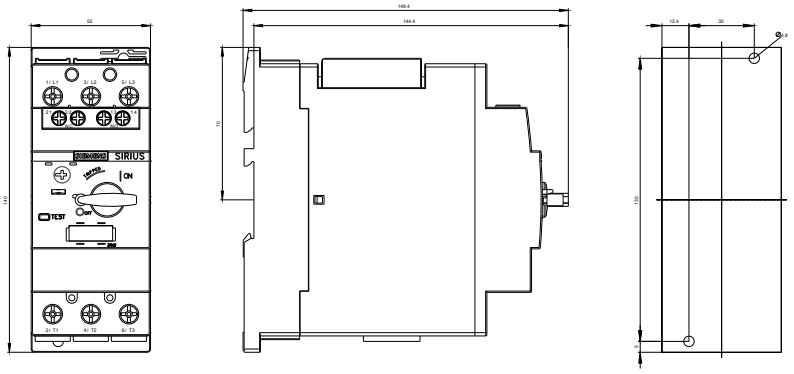
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

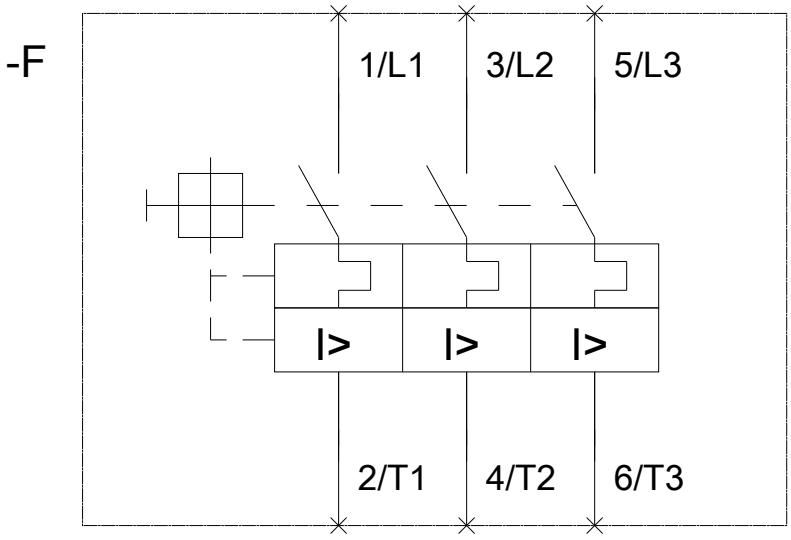
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20314PA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RV20314PA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV20314PA10&lang=en





last modified: 14.05.2015