SIEMENS

Data sheet 3RV1021-1FA10

Circuit breaker size S0 for motor protection CLASS 10 A-release 3.5...5 A Short-circuit release 65 A Screw terminal Standard switching capacity !!! Phased-out product !!! Successor is SIRIUS 3RV2 Preferred successor type is >>3RV2011-1FA10<<

Product brand name	SIRIUS
Product designation	circuit breaker
Design of the product	for motor protection

General technical data	
Product extension	
• Auxiliary switch	Yes
Power loss [W] total typical	6 W
Surge voltage resistance rated value	6 000 V
Protection class IP	
• on the front	IP20
Shock resistance	25g / 11 ms
Mechanical service life (switching cycles)	
• of the main contacts typical	100 000
Continuous current rated value	5 A

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

Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	3.5 ... 5 A
Operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
Operating current	
• at AC-3	
— at 400 V rated value	5 A
Operating power	
• at AC-3	
— at 400 V rated value	1.5 kW
Operating frequency	
• at AC-3 maximum	15 1/h

Auxiliary circuit	
Number of CO contacts	
• for auxiliary contacts	0

Protective and monitoring functions	
Product function	
• Ground fault detection	No
• Phase failure detection	Yes
Trip class	CLASS 10
Maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	100 kA
• at AC at 500 V rated value	100 kA
• at AC at 690 V rated value	6 kA

Short-circuit protection	
Design of the overcurrent release and short-circuit release	thermomagnetic

Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Height	97 mm
Width	45 mm
Depth	96 mm

Required spacing	
• with side-by-side mounting	
— Backwards	0 mm
— at the side	0 mm

Connections/Terminals

Product function	
• removable terminal for auxiliary and control circuit	No
Type of electrical connection	
• for main current circuit	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
Arrangement of electrical connectors for main current circuit	front side
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)
— stranded	2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)
— finely stranded with core end processing	2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)
• at AWG conductors for main contacts	2x (14 ... 10)

Certificates/approvals

General Product Approval | **For use in hazardous locations**

CCC, CSA, UL, EAC, ATEX, IECEx

Declaration of Conformity | **Test Certificates** | **Marine / Shipping**

EG-Konf., Miscellaneous, Special Test Certificate, ABS, LRS, RMRS

other

Miscellaneous, Confirmation, VDE

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=3RV1021-1FA10

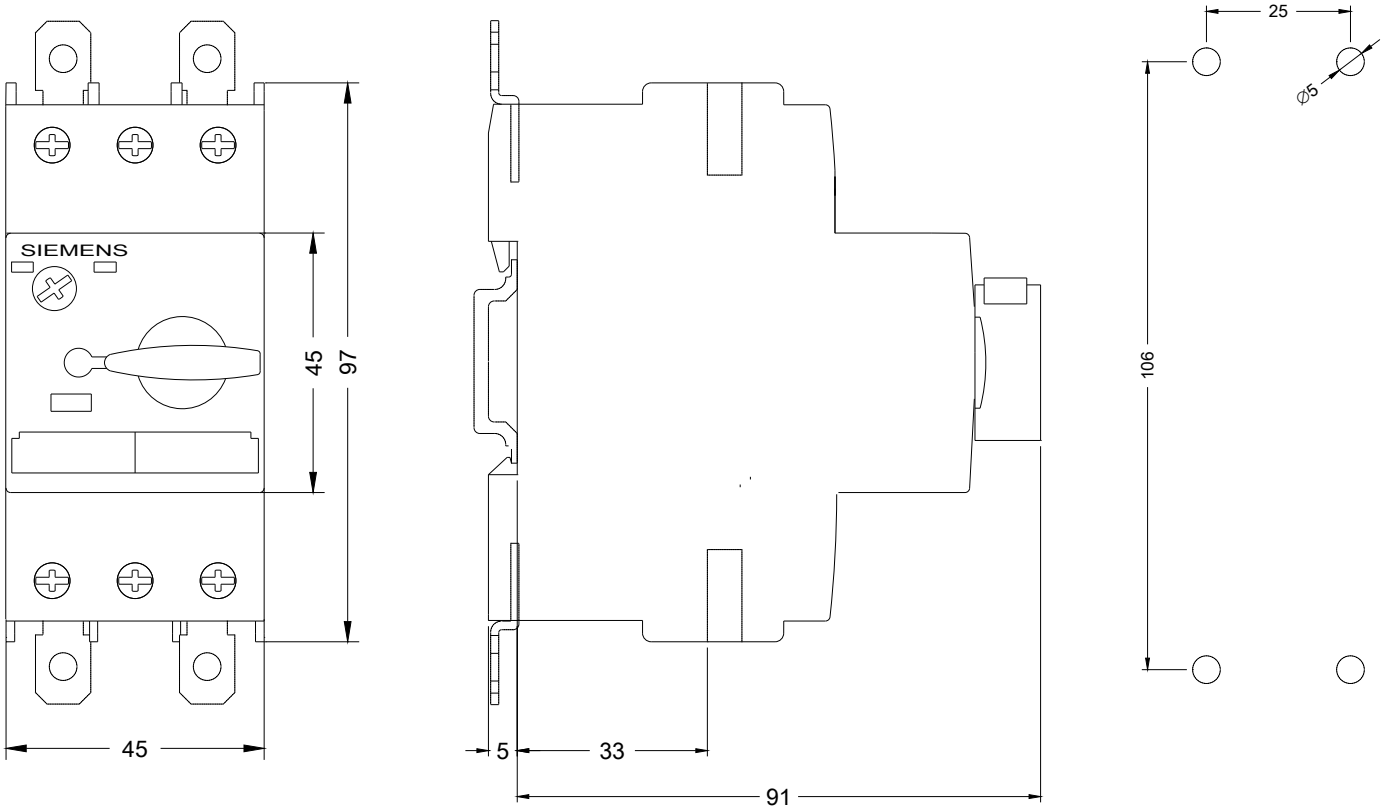
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1021-1FA10

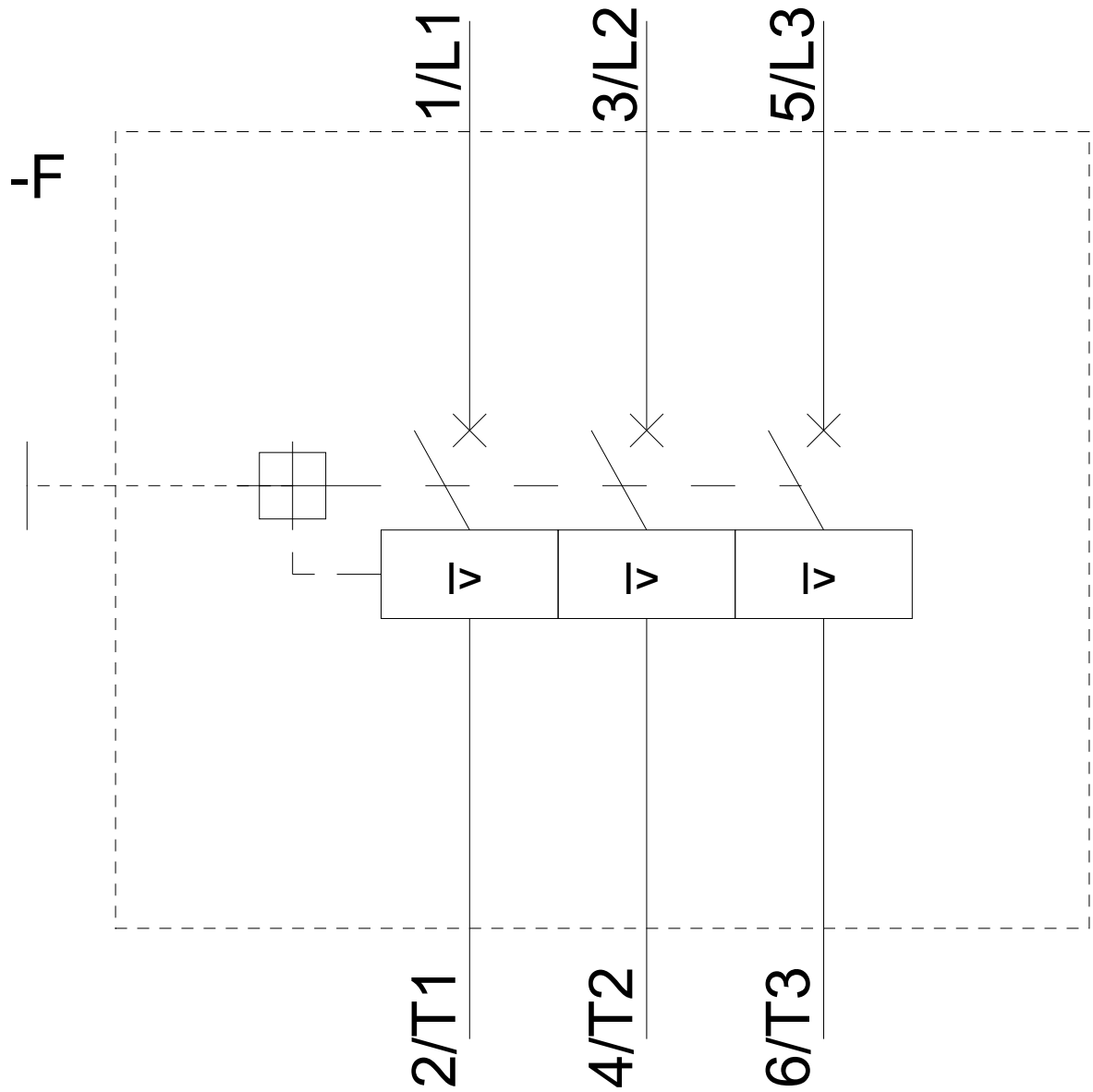
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RV1021-1FA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1021-1FA10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RV1021-1FA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1021-1FA10&objecttype=14&gridview=view1





last modified: 02/27/2019