SIEMENS

Data sheet 3RV1021-4AA10

Figure similar

Circuit breaker size S0 for motor protection CLASS 10 A-release 11...16 A Short-circuit release 208 A Screw terminal Standard switching capacity !!! Phased-out product !!! Successor is SIRIUS 3RV2 Preferred successor type is >>3RV2021-4AA10<<

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] for rated value of the current	
● at AC in hot operating state	9.25 W
● at AC in hot operating state per pole	3.1 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	16 A
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
● ambient temperature during operation	-20 ... +60 °C
● ambient temperature during storage	-50 ... +80 °C
● ambient temperature during transport	-50 ... +80 °C
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	11 ... 16 A
● operating voltage rated value	690 V
● operating voltage at AC-3 rated value maximum	690 V
operational current at AC-3 at 400 V rated value	16 A
operating power at AC-3	
● at 400 V rated value	7.5 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

breaking capacity maximum short-circuit current (Icu)	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	50 kA
• at AC at 500 V rated value	10 kA
• at AC at 690 V rated value	4 kA
Short-circuit protection	
design of the overcurrent release and short-circuit release	thermomagnetic
Installation/ mounting/ dimensions	
mounting position	any
fastening method	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 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 cables for main contacts	2x (14 ... 10)

Certificates/ approvals

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

CSA, CCC, UL, EAC, ATEX, IECEx

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

EG-Konf. | Miscellaneous | Special Test Certificate | Type Test Certificates/Test Report | ABS | Bureau Veritas

Marine / Shipping | **other**

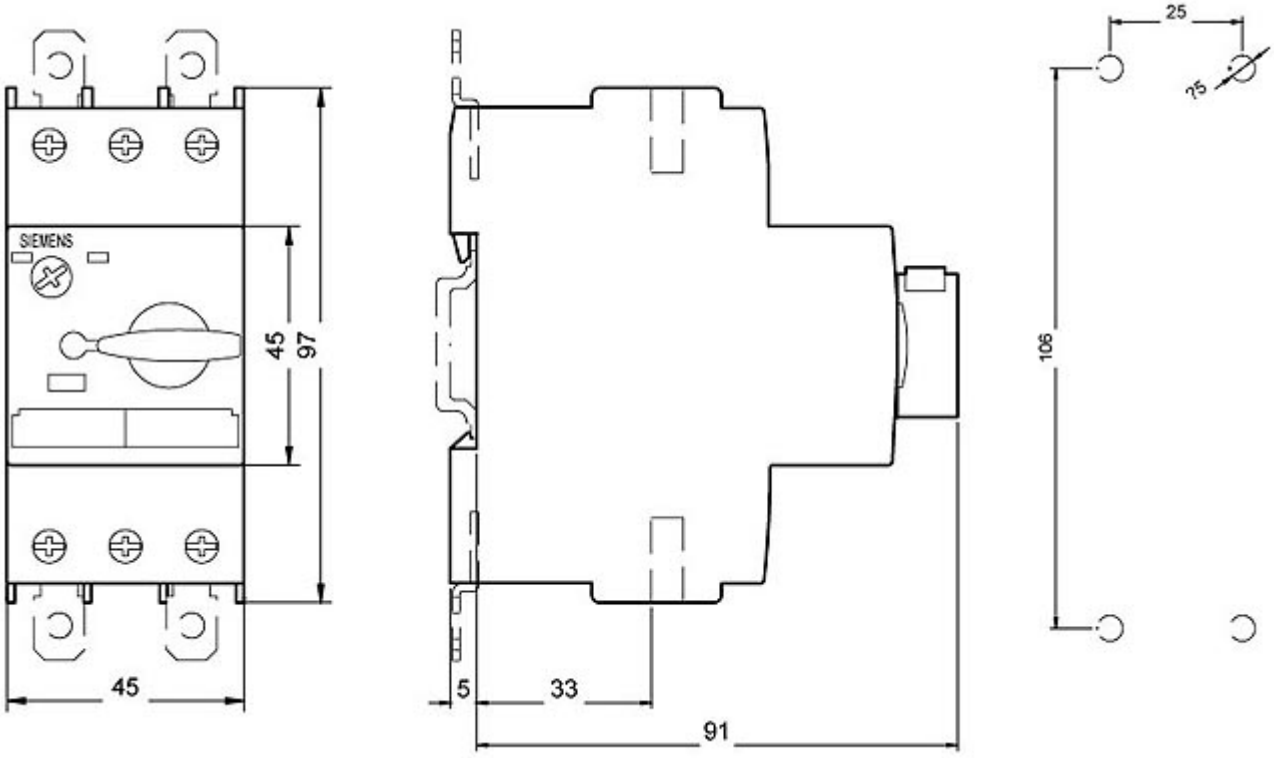
Lloyd's Register LRS, RINA, RMRS, DNV GL | Confirmation | Miscellaneous

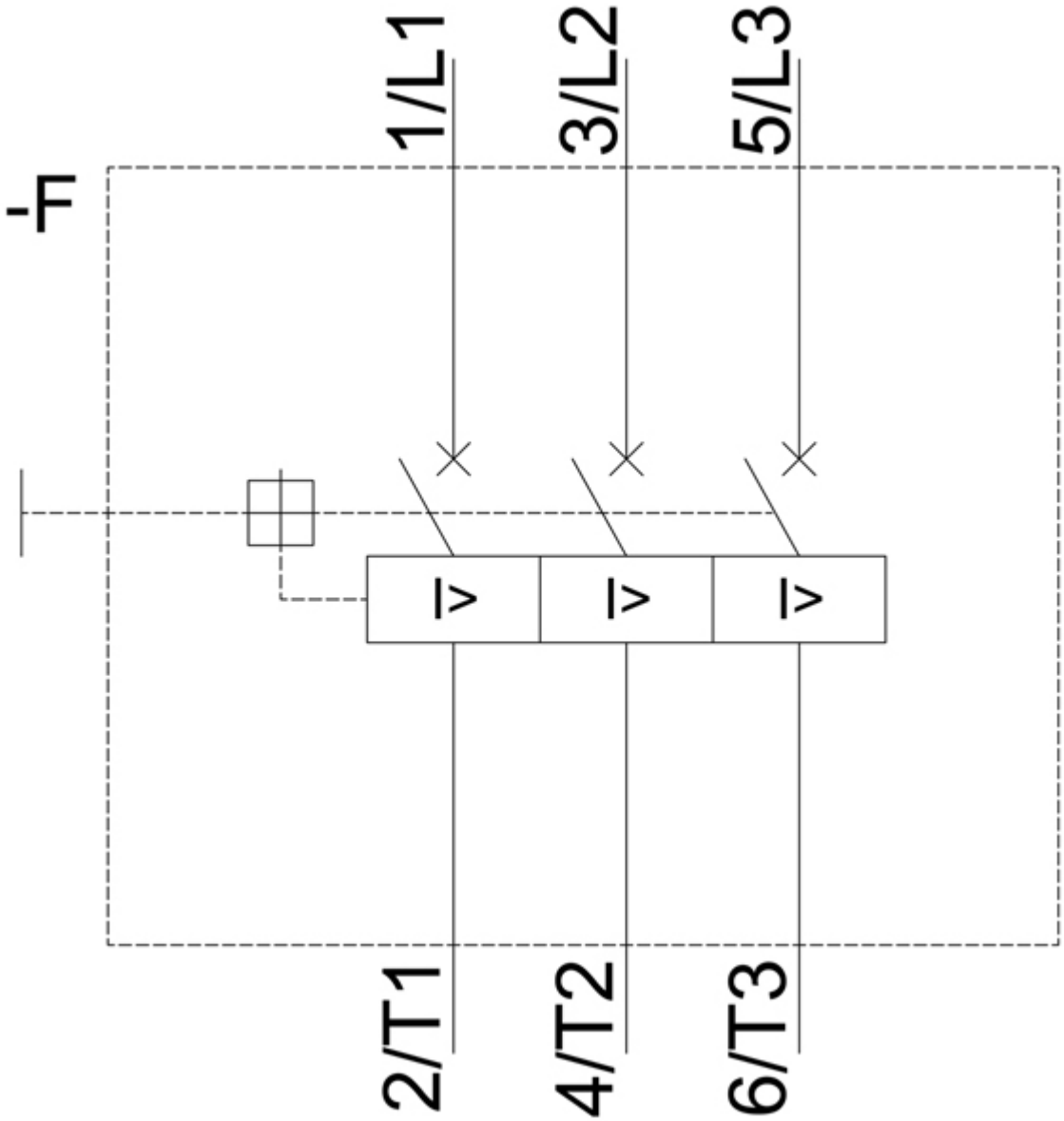
other | **Railway**

Special Test Certificate

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1021-4AA10
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1021-4AA10
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RV1021-4AA10
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1021-4AA10&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RV1021-4AA10/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1021-4AA10&objecttype=14&gridview=view1





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