SIEMENS

Data sheet 3RV1031-4GA10

Circuit breaker size S2 for motor protection, Class 10 A-release 36...45 A Short-circuit release 585 A Screw terminal Standard switching capacity !!! Phased-out product !!! Successor is SIRIUS 3RV2 Preferred successor type is >>3RV2031-4VA10<<

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	29 W
● at AC in hot operating state per pole	9.7 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	50 000
continuous current rated value	45 A
Substance Prohibitance (Date)	07/01/2006
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 current response value current of the current-dependent overload release	36 ... 45 A
operating voltage	
● rated value	690 V
● at AC-3 rated value maximum	690 V
operational current at AC-3 at 400 V rated value	45 A
operating power at AC-3	
● at 400 V rated value	22 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 DIN rail according to DIN EN 50022
height	140 mm
width	55 mm
depth	149 mm
required spacing with side-by-side mounting	
● backwards	0 mm
● at the side	0 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	No
type of electrical connection	
● for main current circuit	screw-type terminals with box 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 (0.75 ... 16 mm²)
— stranded	2x (0.75 ... 25 mm²), 1x (0.75 … 35 mm²)
— finely stranded with core end processing	2x (0.75 ... 16 mm²), 0.75 ... 25 mm²
● at AWG cables for main contacts	2x (18 ... 2), 1x (18 ... 2)
Safety related data	
touch protection against electrical shock	finger-safe

Certificates/ approvals

General Product Approval					For use in hazardous locations
CSA	CCC	Confirmation	UL	EAC	IECEx

For use in hazardous locations	Declaration of Conformity		Test Certificates		Marine / Shipping
ATEX	UKCA	EG-Konf.	Type Test Certificates/Test Report	Special Test Certificate	ABS

Marine / Shipping		other			Railway
RINA	DNV·GL	Confirmation	Miscellaneous	VDE	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=3RV1031-4GA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1031-4GA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4GA10

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

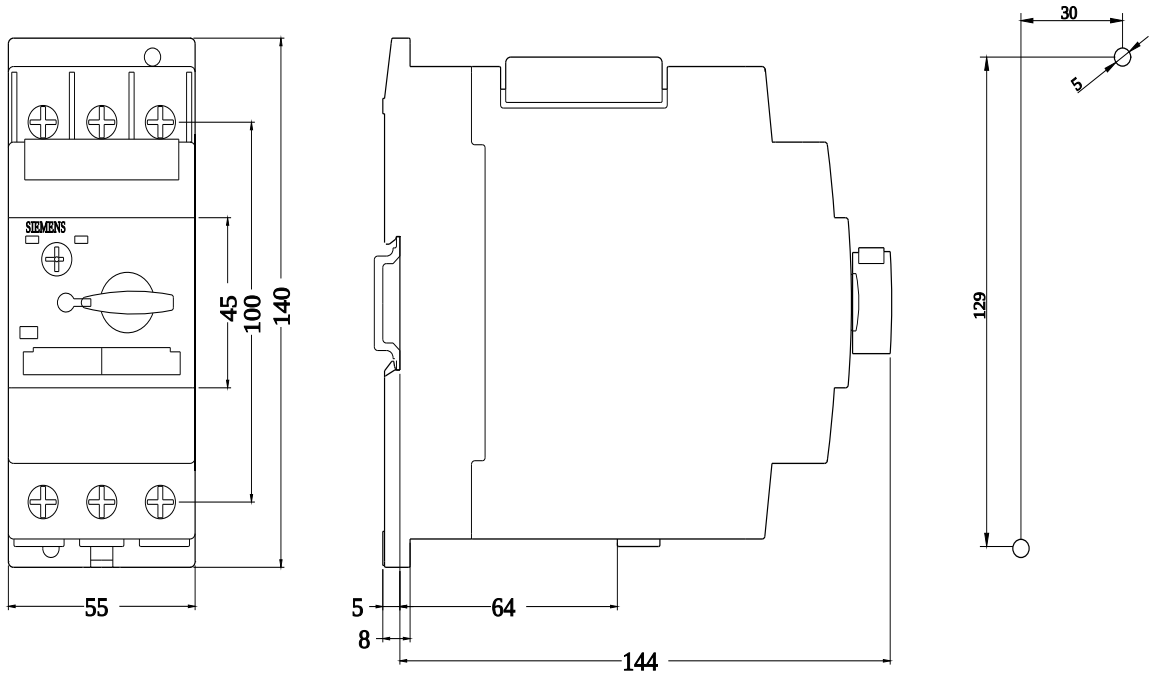
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1031-4GA10&lang=en

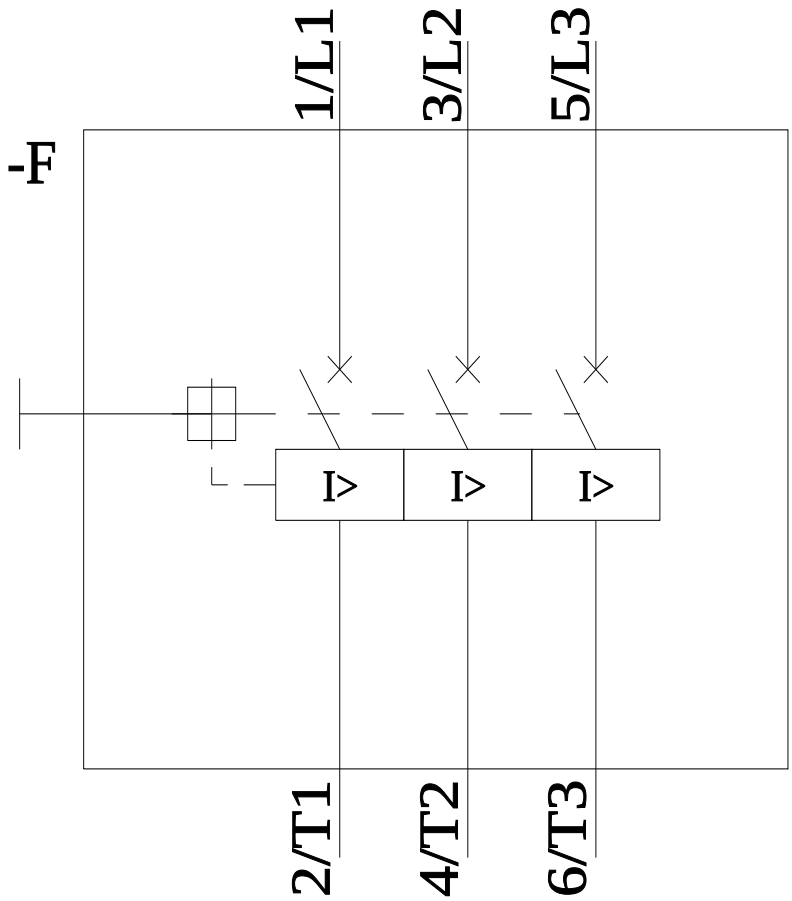
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4GA10/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1031-4GA10&objecttype=14&gridview=view1





last modified: 11/21/2022