



Circuit breaker size S2 for motor protection, Class 20 A-release 40...50 A
Short-circuit release 650 A Screw terminal Standard switching capacity !!!
Phased-out product !!! Successor is SIRIUS 3RV2 Preferred successor
type is >>3RV2031-4WB10<<

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	50 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	40 ... 50 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	50 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 20
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 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 function 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)

Certificates/ approvals

General Product Approval

For use in hazardous locations



Declaration of Conformity

Test Certificates

Marine / Shipping

[Miscellaneous](#)



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Marine / Shipping

other



[Miscellaneous](#)

[Confirmation](#)



Railway

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=3RV1031-4HB10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1031-4HB10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4HB10>

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

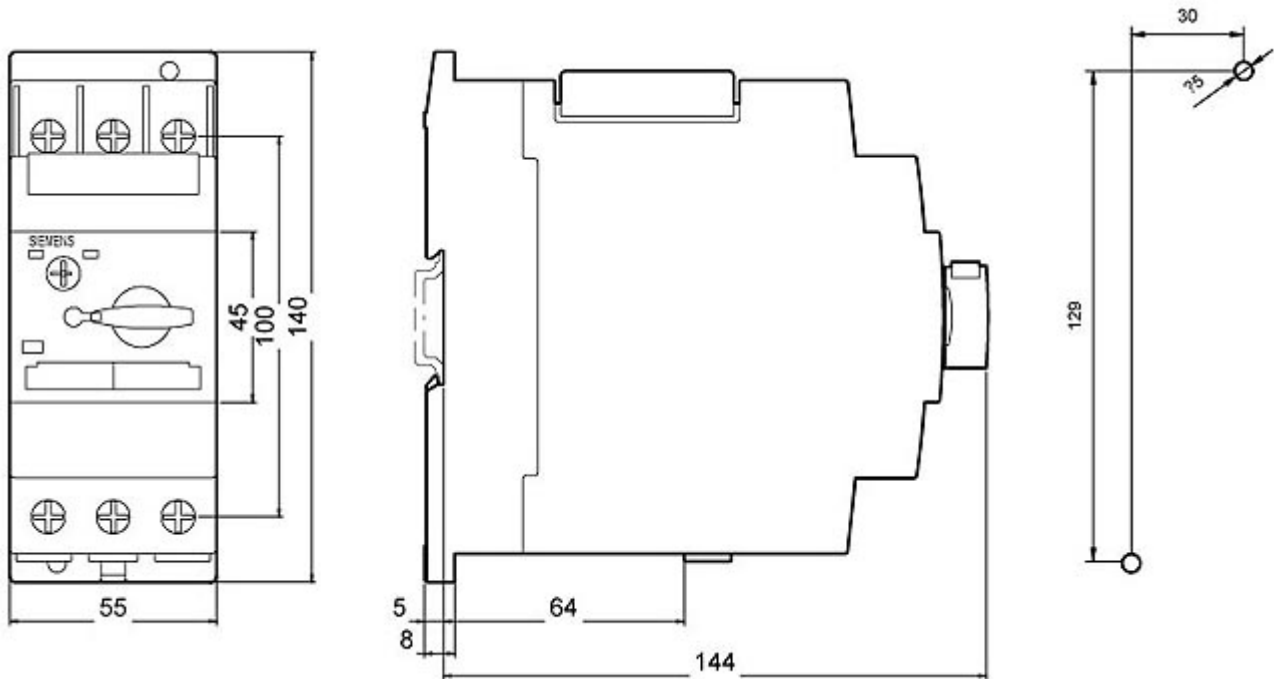
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1031-4HB10&lang=en

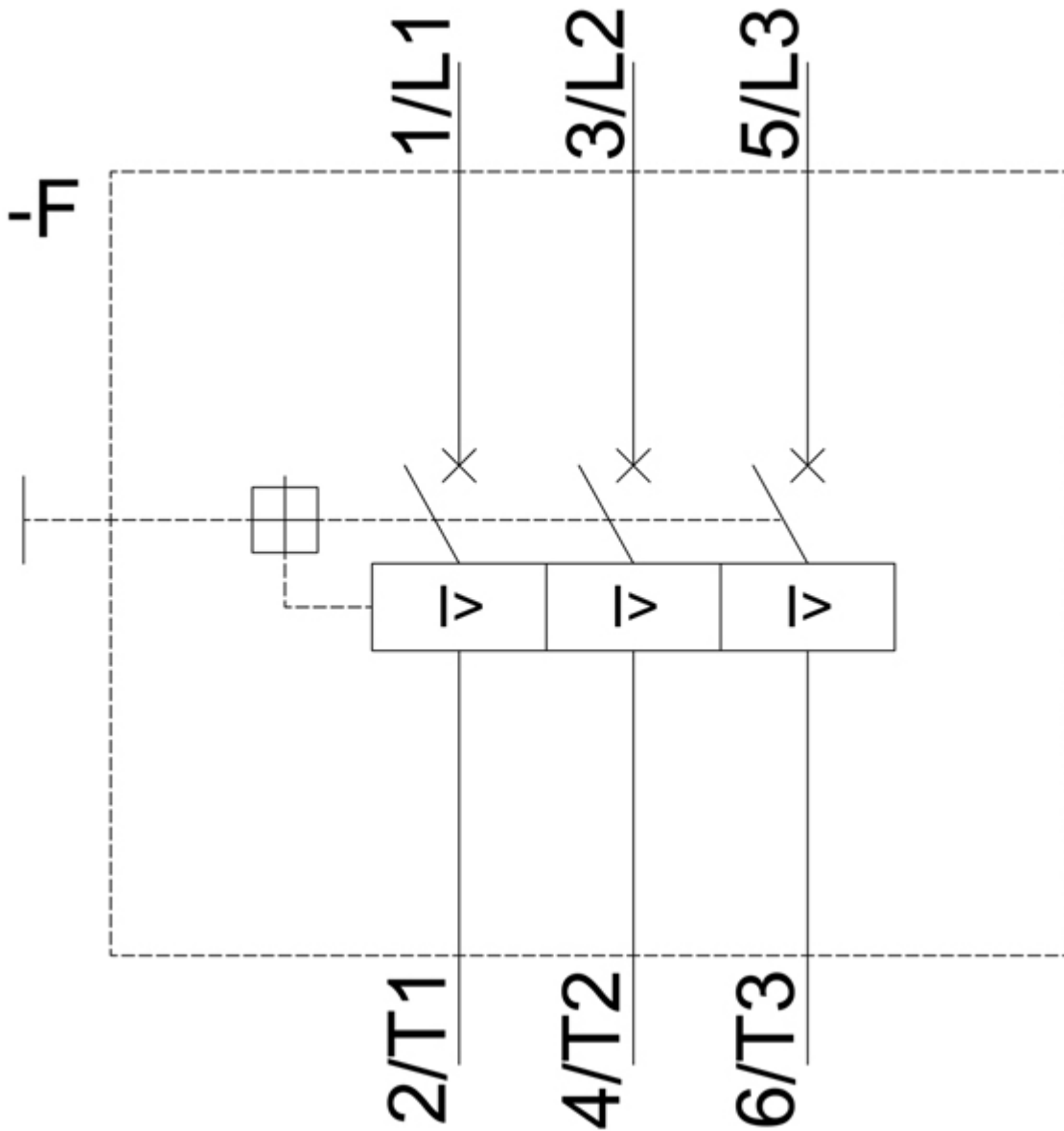
Characteristic: Tripping characteristics, I^t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4HB10/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1031-4HB10&objectype=14&gridview=view1>





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