



Circuit breaker size S2 for motor protection, Class 10 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 >>3RV2031-4WA10<<

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
Substance Prohibitance (Date)	01.07.2006
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	40 ... 50 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	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 10

breaking capacity maximum short-circuit current (Icu)	
<ul style="list-style-type: none"> • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value 	100 kA 50 kA 10 kA 4 kA

Short-circuit protection

design of the overcurrent release and short-circuit release	thermomagnetic
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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	
<ul style="list-style-type: none"> • backwards • at the side 	0 mm 0 mm

Connections/ Terminals

product component removable terminal for auxiliary and control circuit	No
type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit • for auxiliary and control circuit 	screw-type terminals with box terminals screw-type terminals
arrangement of electrical connectors for main current circuit	front side
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — solid — stranded — finely stranded with core end processing • at AWG cables for main contacts 	2x (0.75 ... 16 mm ²) 2x (0.75 ... 25 mm ²), 1x (0.75 ... 35 mm ²) 2x (0.75 ... 16 mm ²), 0.75 ... 25 mm ² 2x (18 ... 2), 1x (18 ... 2)

Safety related data

touch protection against electrical shock	finger-safe
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Certificates/ approvals

General Product Approval	For use in hazardous locations
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[Confirmation](#)



For use in hazardous locations	Declaration of Conformity	Test Certificates	Marine / Shipping
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[UK Declaration of Conformity](#)



EG-Konf.

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Marine / Shipping	other
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LRS



RINA



RMRS



DNV-GL

[Miscellaneous](#)

[Confirmation](#)



[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=3RV1031-4HA10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1031-4HA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4HA10>

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

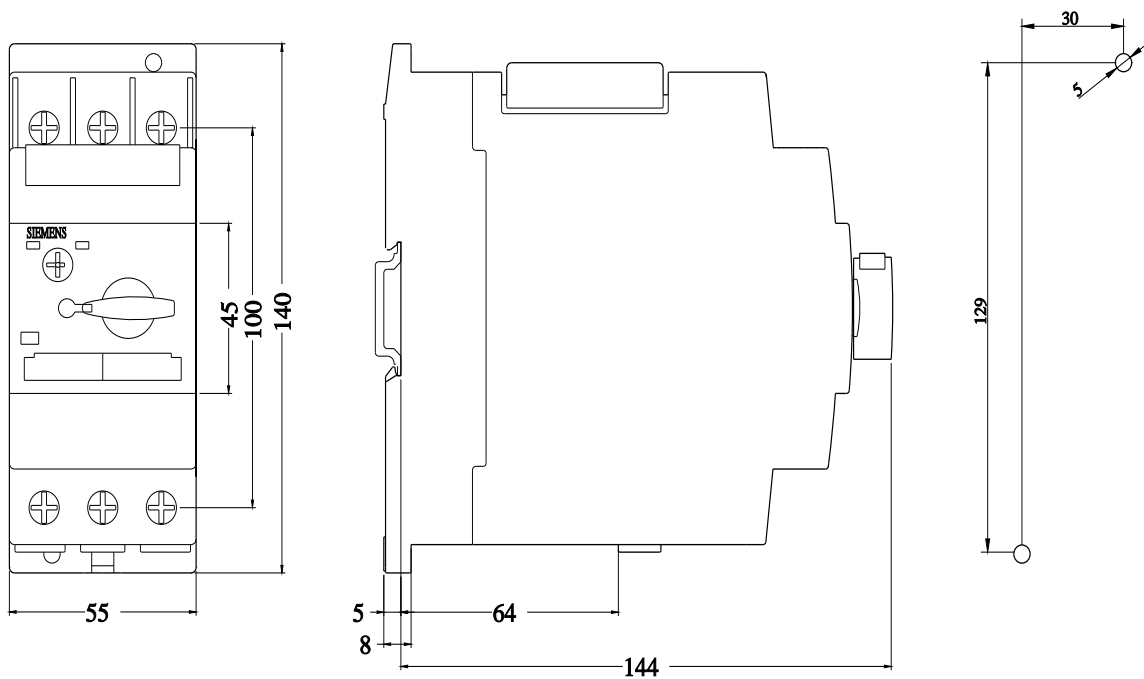
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1031-4HA10&lang=en

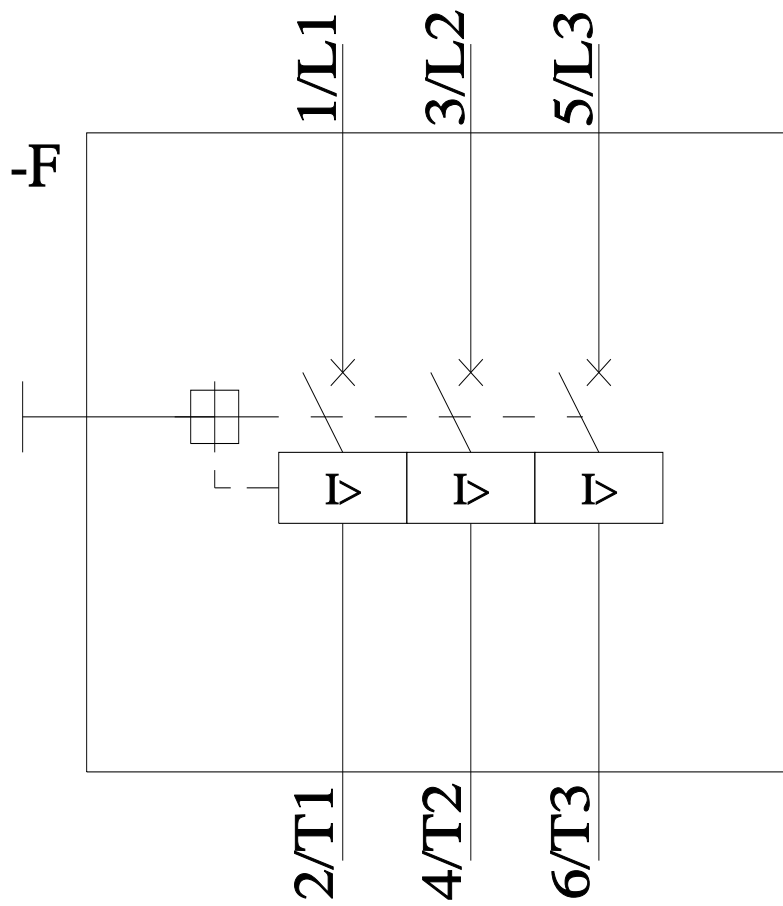
Characteristic: Tripping characteristics, I^t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4HA10/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1031-4HA10&objecttype=14&gridview=view1>





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