



Circuit breaker size S2 for motor protection, Class 10 A-release 18...25 A  
Short-circuit release 325 A Screw terminal Standard switching capacity !!!  
Phased-out product !!! Successor is SIRIUS 3RV2 Preferred successor  
type is >>3RV2031-4DA10<<

<b>product brand name</b>	SIRIUS
<b>product designation</b>	circuit breaker
<b>design of the product</b>	for motor protection

### General technical data

product extension auxiliary switch	Yes
<b>power loss [W] for rated value of the current</b>	
• at AC in hot operating state	14.5 W
• at AC in hot operating state per pole	4.8 W
<b>surge voltage resistance rated value</b>	6 000 V
protection class IP on the front	IP20
<b>shock resistance</b>	25g / 11 ms
mechanical service life (switching cycles) of the main contacts typical	50 000
<b>continuous current rated value</b>	25 A
<b>Substance Prohibitance (Date)</b>	07/01/2006

### Ambient conditions

installation altitude at height above sea level maximum	2 000 m
<b>ambient temperature</b>	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-50 ... +80 °C

### Main circuit

<b>number of poles for main current circuit</b>	3
<b>adjustable current response value current of the current-dependent overload release</b>	18 ... 25 A
<b>operating voltage</b>	
• rated value	690 V
• at AC-3 rated value maximum	690 V
operational current at AC-3 at 400 V rated value	25 A
operating power at AC-3	
• at 400 V rated value	11 kW
operating frequency at AC-3 maximum	15 1/h

### Auxiliary circuit

number of CO contacts for auxiliary contacts	0
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### Protective and monitoring functions

<b>product function</b>	
• ground fault detection	No
• phase failure detection	Yes
<b>trip class</b>	CLASS 10
<b>breaking capacity maximum short-circuit current (Icu)</b>	
• at AC at 240 V rated value	100 kA

- at AC at 400 V rated value
- at AC at 500 V rated value
- at AC at 690 V rated value

50 kA  
12 kA  
5 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
- at the side

0 mm  
0 mm

#### Connections/ Terminals

**product component removable terminal for auxiliary and control circuit**

No

**type of electrical connection**

- for main current circuit
- for auxiliary and control circuit

screw-type terminals with box terminals  
screw-type terminals  
front side

**arrangement of electrical connectors for main current circuit**

**type of connectable conductor cross-sections**

- for main contacts
  - solid
  - stranded
  - finely stranded with core end processing
- at AWG cables for main contacts

2x (0.75 ... 16 mm<sup>2</sup>)  
2x (0.75 ... 25 mm<sup>2</sup>), 1x (0.75 ... 35 mm<sup>2</sup>)  
2x (0.75 ... 16 mm<sup>2</sup>), 0.75 ... 25 mm<sup>2</sup>  
2x (18 ... 2), 1x (18 ... 2)

#### Safety related data

**touch protection against electrical shock**

finger-safe

#### Certificates/ approvals

General Product Approval

For use in hazard-  
ous locations



[Confirmation](#)



For use in hazard-  
ous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Marine / Shipping

other



[Miscellaneous](#)

[Confirmation](#)



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=3RV1031-4DA10>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1031-4DA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4DA10>

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

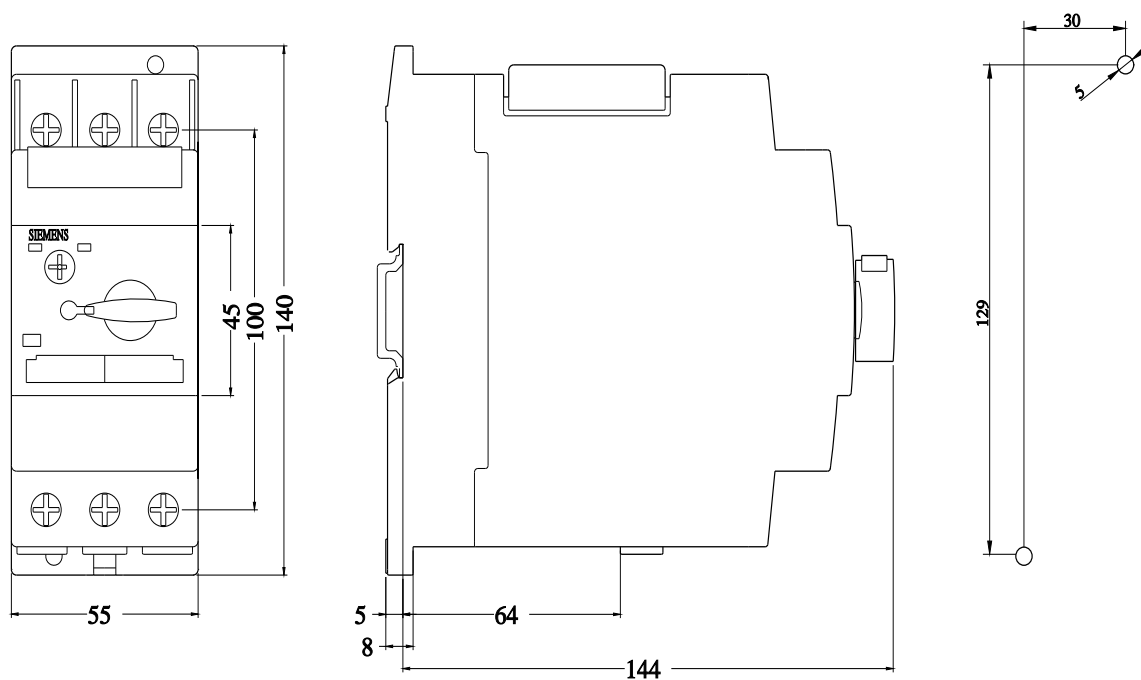
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1031-4DA10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1031-4DA10&lang=en)

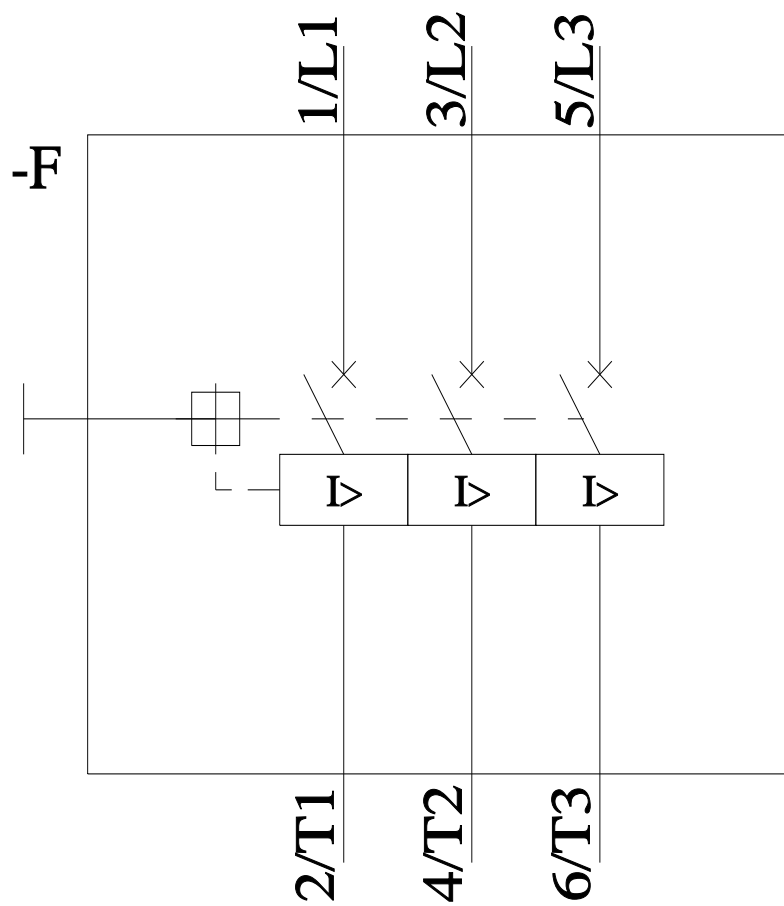
**Characteristic: Tripping characteristics,  $I^2t$ , Let-through current**

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4DA10/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1031-4DA10&objecttype=14&gridview=view1>





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