

CIRCUIT-BREAKER SIZE S2. FOR MOTOR PROTECTION, CLASS 10, A-REL. 28...40A, N-REL. 520A, SCREW TERMINAL, STANDARD SWITCHING CAPACITY



Figure similar

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

### General technical data

<b>Product extension</b>	
• Auxiliary switch	Yes
<b>Power loss [W] total typical</b>	20 W
<b>Surge voltage resistance rated value</b>	6 000 V
<b>Protection class IP</b>	
• on the front	IP20
<b>Mechanical service life (switching cycles)</b>	
• of the main contacts typical	50 000
<b>Continuous current rated value</b>	40 A

### Ambient conditions

<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 pick-up value current of the current-dependent overload release</b>	28 ... 40 A
<b>Operating voltage</b>	
• rated value	690 V
• at AC-3 rated value maximum	690 V
<b>Operating current</b>	
• at AC-3	
— at 400 V rated value	40 A
<b>Operating power</b>	
• at AC-3	
— at 400 V rated value	18.5 kW
<b>Operating frequency</b>	
• at AC-3 maximum	15 1/h

### Auxiliary circuit

<b>Number of CO contacts</b>	
• for auxiliary contacts	0

### Protective and monitoring functions

<b>Product function</b>	
• Ground fault detection	No
• Phase failure detection	Yes
<b>Trip class</b>	CLASS 10
<b>Maximum short-circuit current breaking capacity (I<sub>cu</sub>)</b>	
• 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

<b>Design of the overcurrent release and short-circuit release</b>	thermomagnetic
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### Installation/ mounting/ dimensions

<b>Mounting position</b>	any
<b>Mounting type</b>	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
<b>Height</b>	140 mm
<b>Width</b>	55 mm
<b>Depth</b>	149 mm
<b>Required spacing</b>	
• with side-by-side mounting	

- Backwards
- at the side

0 mm  
0 mm

## Connections/Terminals

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

## Certificates/approvals

### General Product Approval

### For use in hazardous locations



### Declaration of Conformity

### Test Certificates

### Marine / Shipping



[Special Test Certificate](#)



### Marine / Shipping

### other



[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)



## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1031-4FA10>

**Cax online generator**

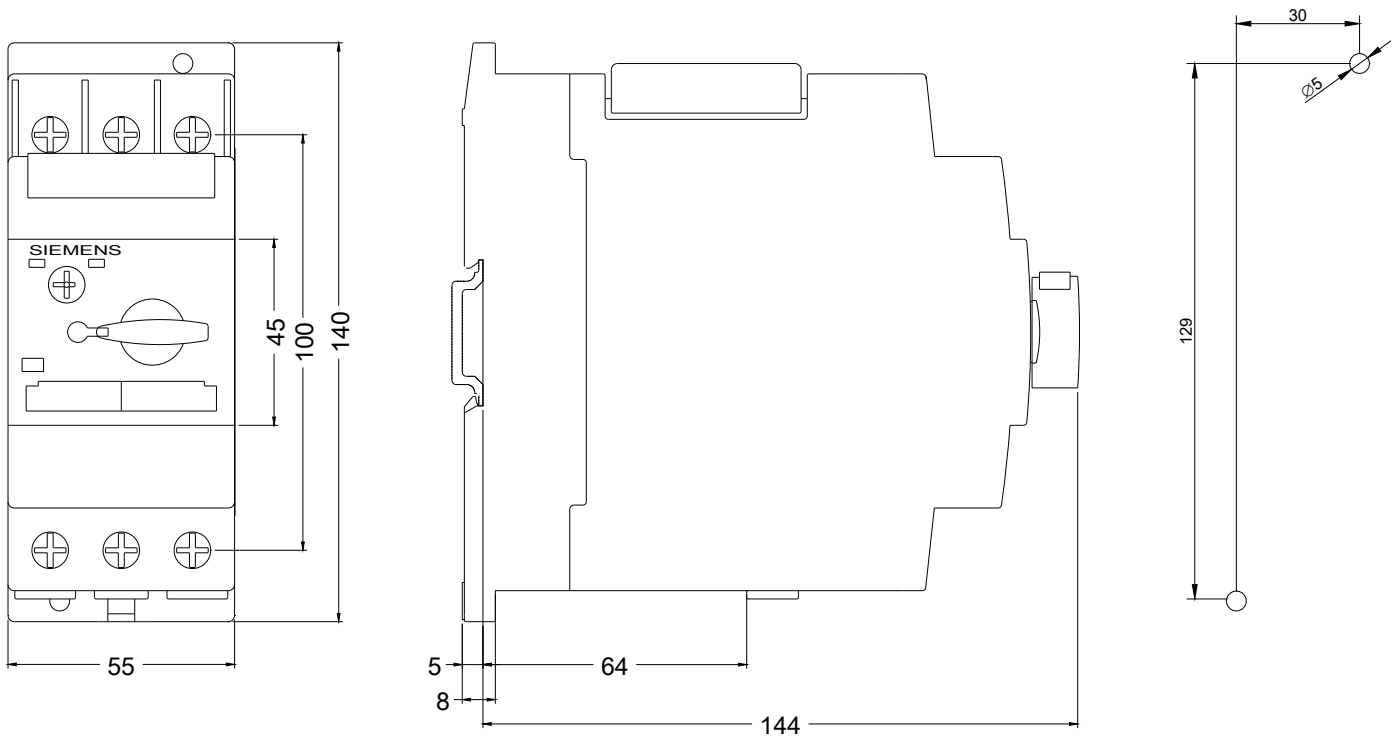
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1031-4FA10>

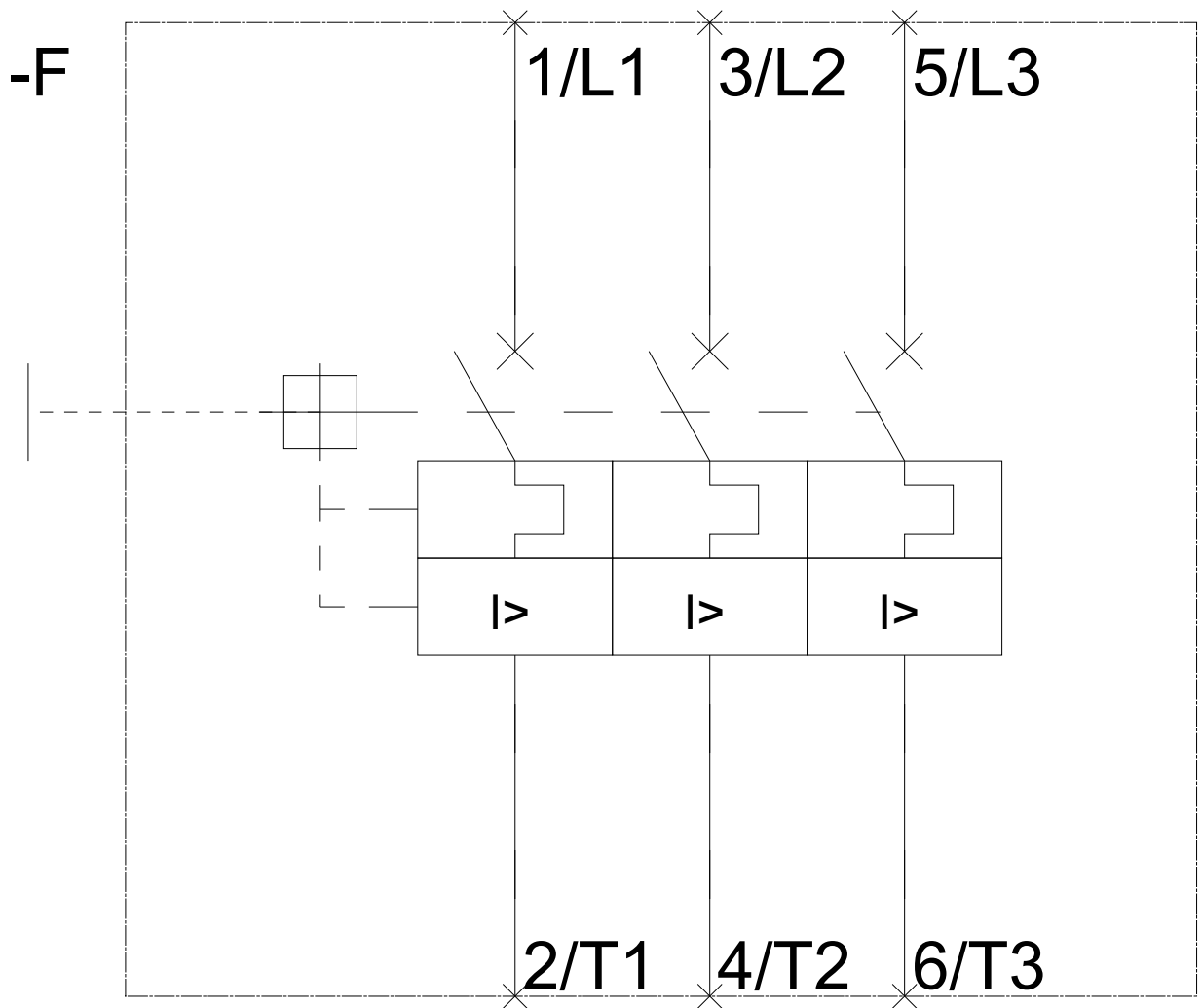
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4FA10>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1031-4FA10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1031-4FA10&lang=en)





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