

CIRCUIT-BREAKER SIZE S3 A-RELEASE 70...90 A, N-RELEASE 1170 A MOTOR PROTECTION, CLASS 10 SCREW CONNECTION STANDARD BREAKING CAPACITY



product brandname	SIRIUS
Product designation	circuit breaker
Design of the product	for motor protection

**General technical data**

<b>Product extension</b>	
• Auxiliary switch	Yes
<b>Power loss [W] total typical</b>	30 W
<b>Surge voltage resistance rated value</b>	6 000 V
<b>Protection class IP</b>	
• on the front	IP20
<b>Shock resistance</b>	25g / 11 ms
<b>Mechanical service life (switching cycles)</b>	
• of the main contacts typical	50 000

**Ambient conditions**

<b>Installation altitude at height above sea level maximum</b>	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 pick-up value current of the current-dependent overload release</b>	70 ... 90 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	90 A
<b>Operating power</b>	
• at AC-3	
— at 400 V rated value	45 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>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	8 kA
• at AC at 690 V rated value	5 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>	165 mm
<b>Width</b>	70 mm
<b>Depth</b>	174 mm
<b>Required spacing</b>	
• with side-by-side mounting	
— Backwards	0 mm
— at the side	0 mm

## Connections/Terminals

<b>Product function</b> <ul style="list-style-type: none"> <li>removable terminal for auxiliary and control circuit</li> </ul>	No
<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>	screw-type terminals with box terminals screw-type terminals
<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>	2x (2.5 ... 16 mm <sup>2</sup> ) 2x (10 ... 50 mm <sup>2</sup> ), 1x (10 ... 70 mm <sup>2</sup> ) 2x (2.5 ... 35 mm <sup>2</sup> ), 2.5 ... 50 mm <sup>2</sup> 2x (10 ... 1), 1x (10 ... 2)

## Certificates/approvals

### General Product Approval



### For use in hazardous locations

### Declaration of Conformity



### Test Certificates

[spezielle Prüfbescheinigung](#)  
n

### Shipping Approval



### Shipping Approval



### other

[Umweltbestätigung](#)

[Bestätigungen](#)

[sonstig](#)



## Further information

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

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

### Industry Mall (Online ordering system)

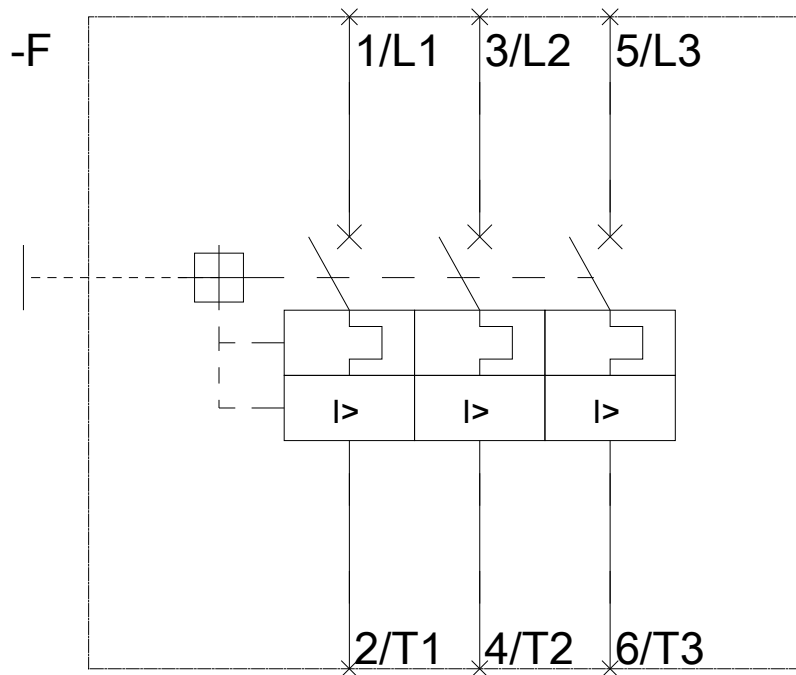
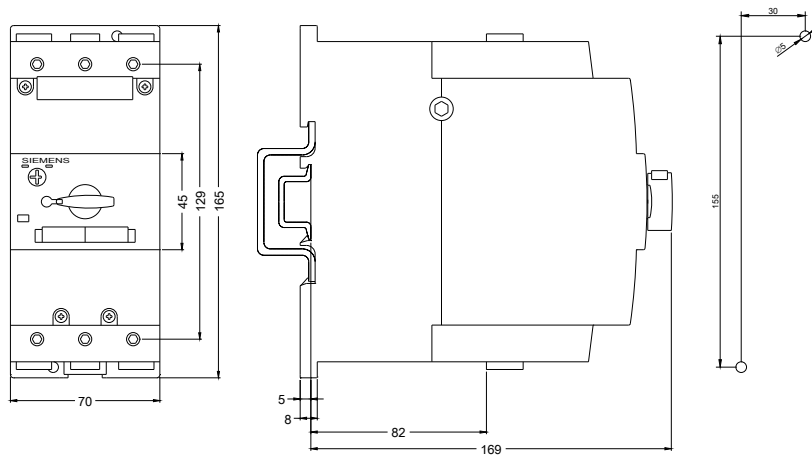
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1041-4LA10>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1041-4LA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1041-4LA10>



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