



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

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

#### General technical data:

<b>Product expansion</b>	
• Auxiliary switch	Yes
<b>Active power loss 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>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>Adjustable response value current of the current-dependent overload release</b>	70 ... 90 A
• Operating voltage Rated value	690 V
• Operating voltage at AC-3 Rated value maximum	690 V

<b>Operating current</b>	
<ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V Rated value</li> </ul> </li> </ul>	90 A
<b>Operating power</b>	
<ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V Rated value</li> </ul> </li> </ul>	45 kW
<b>Operating frequency</b>	
<ul style="list-style-type: none"> <li>• at AC-3 maximum</li> </ul>	15 1/h

#### Auxiliary circuit:

<b>Number of CO contacts</b>	
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>	0

#### Protective and monitoring functions:

<b>Trip class</b>	CLASS 10
<b>Maximum short-circuit current breaking capacity (Icu)</b>	
<ul style="list-style-type: none"> <li>• with AC at 240 V Rated value</li> <li>• with AC at 400 V Rated value</li> <li>• with AC at 500 V Rated value</li> <li>• with AC at 690 V Rated value</li> </ul>	100 kA 50 kA 8 kA 5 kA

#### Short-circuit:

<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>	
<ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— Backwards</li> <li>— at the side</li> </ul> </li> </ul>	0 mm 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

### Type of connectable conductor cross-section

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

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)

### Mechanical data:

Size of the circuit-breaker S3

### Certificates/ approvals:

General Product Approval	For use in hazardous locations	Declaration of Conformity
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Test Certificates	Shipping Approval
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[spezielle Prüfbescheinigungen](#)  
[n](#)



Shipping Approval	other
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### Further information

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

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

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

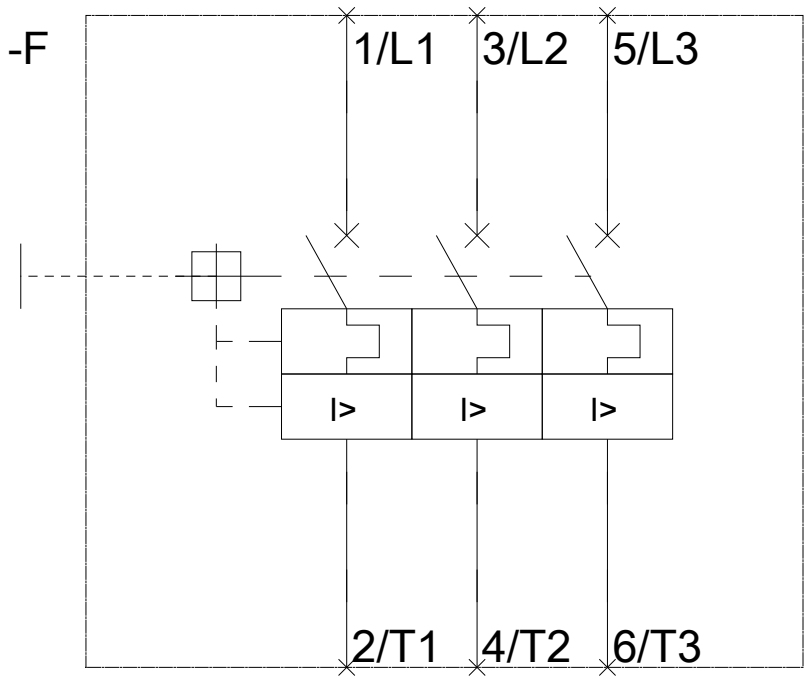
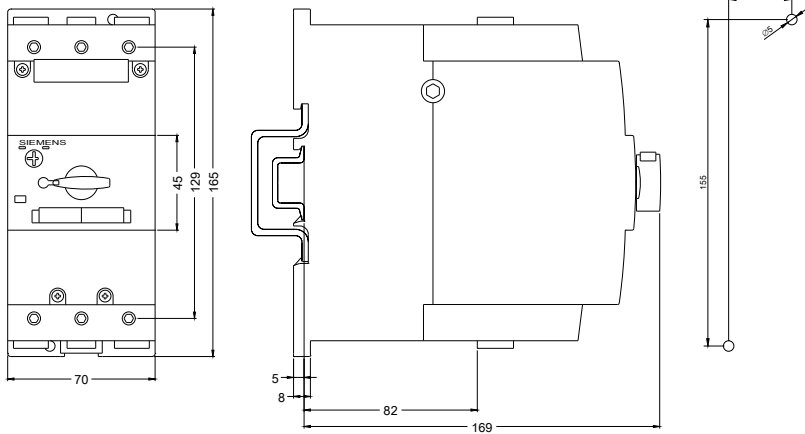
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV10414LA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV10414LA10>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV10414LA10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV10414LA10&lang=en)



last modified:

27.06.2015