

CIRCUIT-BREAKER SIZE S3, FOR MOTOR PROTECTION, CLASS 10, A-REL. 45...63A, N-REL. 819A, SCREW TERMINAL, STANDARD SWITCHING CAPACITY



Figure similar

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

General technical data

Product extension	
<ul style="list-style-type: none"> Auxiliary switch 	Yes
Power loss [W] total typical	20 W
Surge voltage resistance rated value	6 000 V
Protection class IP	
<ul style="list-style-type: none"> on the front 	IP20
Mechanical service life (switching cycles)	
<ul style="list-style-type: none"> of the main contacts typical 	50 000
Continuous current rated value	63 A

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> during operation 	-20 ... +60 °C
<ul style="list-style-type: none"> during storage 	-50 ... +80 °C

- during transport

-50 ... +80 °C

Main circuit

Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	45 ... 63 A
Operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
Operating current	
• at AC-3	
— at 400 V rated value	63 A
Operating power	
• at AC-3	
— at 400 V rated value	30 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
Maximum short-circuit current breaking capacity (I_{cu})	
• 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	12 kA
• at AC at 690 V rated value	6 kA

Short-circuit protection

Design of the overcurrent release and short-circuit release	thermomagnetic
--	----------------

Installation/ mounting/ dimensions

Mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Height	165 mm
Width	70 mm
Depth	174 mm
Required spacing	
• with side-by-side mounting	

- Backwards
- at the side

0 mm
0 mm

Connections/Terminals

Product function	
<ul style="list-style-type: none"> 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 current circuit 	<p>screw-type terminals with box terminals</p> <p>screw-type terminals</p>
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 conductors for main contacts 	<p>2x (2.5 ... 16 mm²)</p> <p>2x (10 ... 50 mm²), 1x (10 ... 70 mm²)</p> <p>2x (2.5 ... 35 mm²), 2.5 ... 50 mm²</p> <p>2x (10 ... 1), 1x (10 ... 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



[Environmental Confirmations](#)

[Miscellaneous](#)

[Confirmation](#)



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=3RV1041-4JA10>

Cax online generator

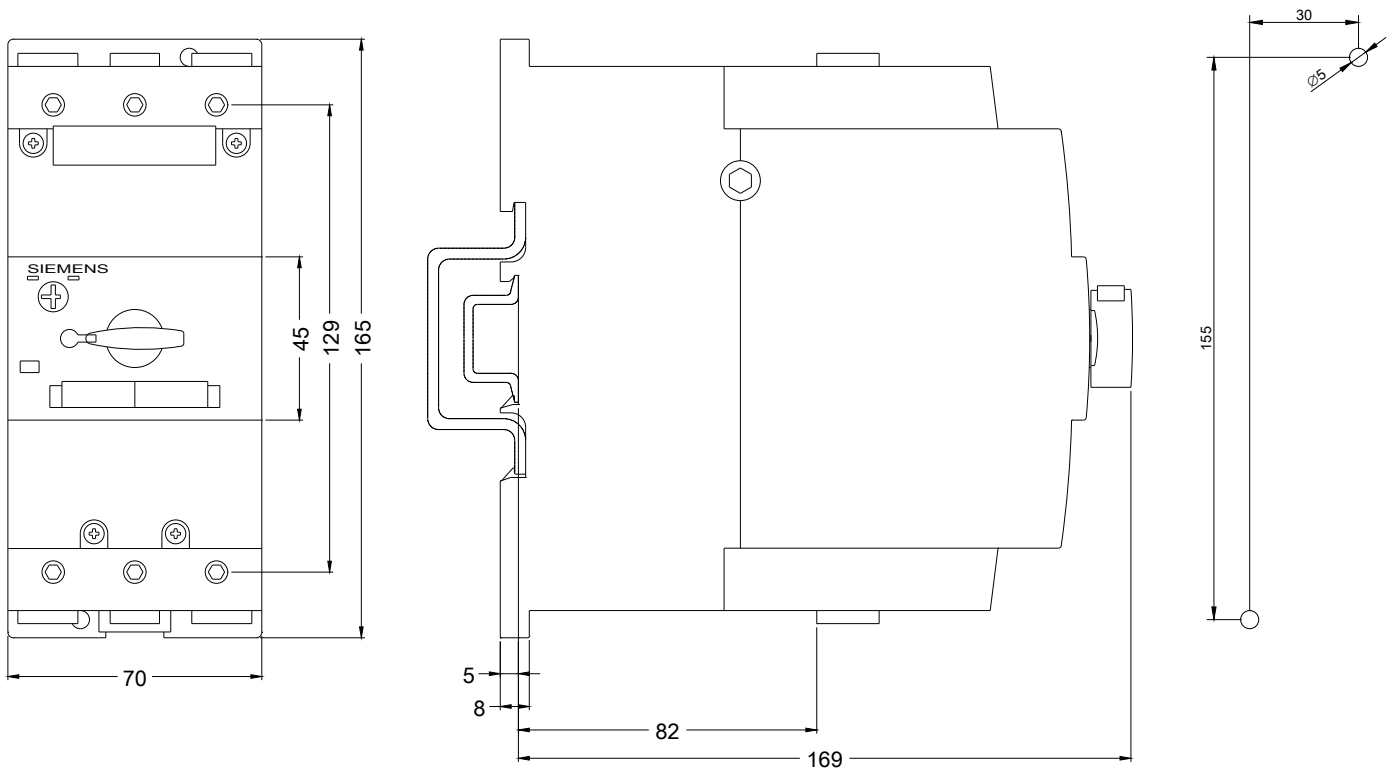
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1041-4JA10>

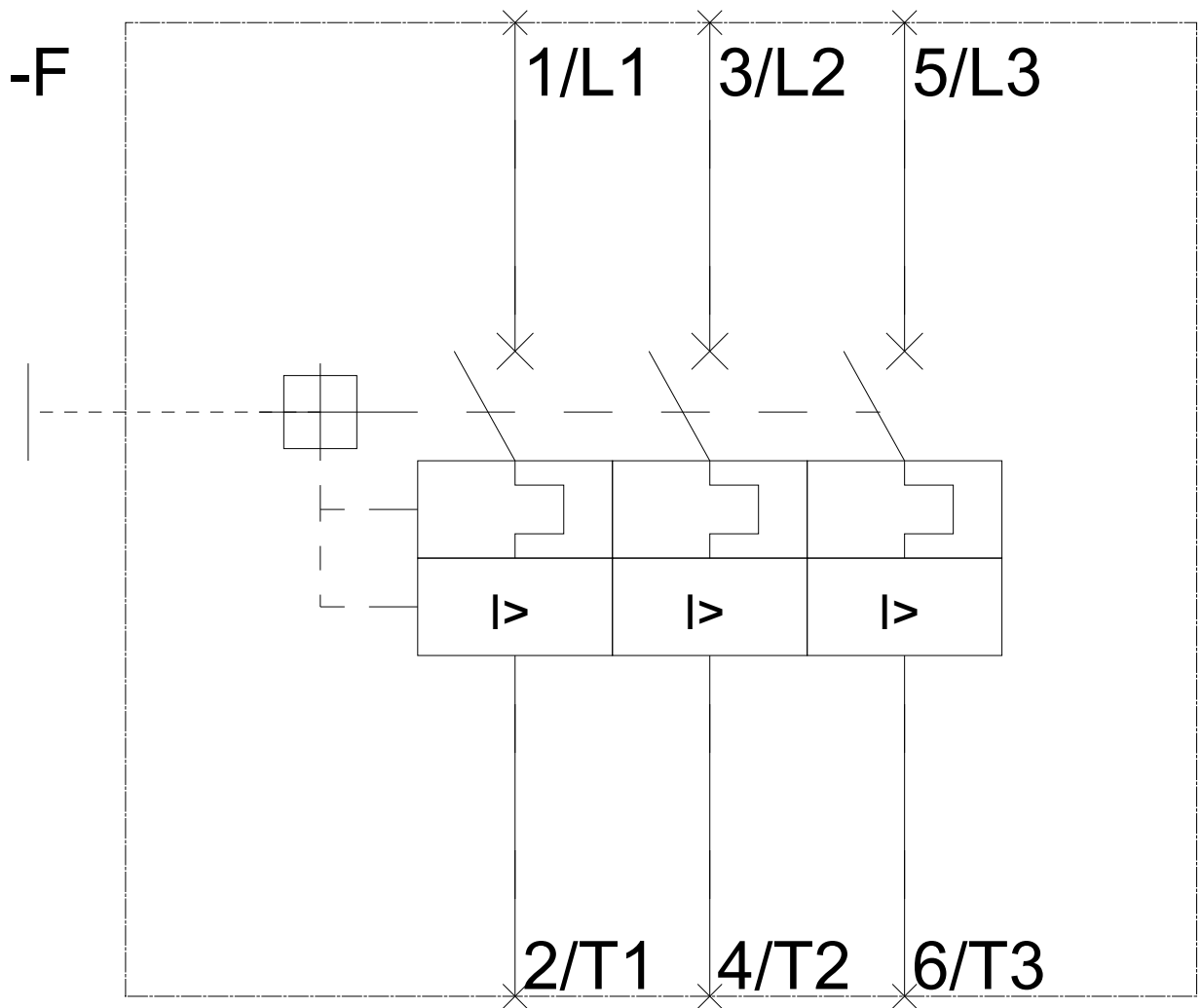
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1041-4JA10>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1041-4JA10&lang=en





last modified:

08/07/2017