

CIRCUIT-BREAKER SIZE S3 A-RELEASE 14...20 A, N-RELEASE 260 A, MOTOR PROTECTION, CLASS 10, SCREW CONNECTION, INCREASED BREAKING 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	20 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	14 ... 20 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	20 A
Operating power	
• at AC-3	
— at 400 V rated value	7.5 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	100 kA
• at AC at 500 V rated value	30 kA
• at AC at 690 V rated value	12 kA

Short-circuit protection

Design of the overcurrent release and short-circuit release	thermomagnetic
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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	No
<ul style="list-style-type: none"> removable terminal for auxiliary and control circuit 	
Type of electrical connection	<ul style="list-style-type: none"> screw-type terminals with box terminals screw-type terminals
<ul style="list-style-type: none"> for main current circuit for auxiliary and control current circuit 	
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: 2x (2.5 ... 16 mm²) stranded: 2x (10 ... 50 mm²), 1x (10 ... 70 mm²) finely stranded with core end processing: 2x (2.5 ... 35 mm²), 2.5 ... 50 mm² at AWG conductors for main contacts: 2x (10 ... 1), 1x (10 ... 2)

Certificates/approvals

General Product Approval

For use in hazardous locations



Declaration of Conformity

Test Certificates

Marine / Shipping



EG-Konf.

[Special Test Certificate](#)



ABS



BUREAU VERITAS



LRS



RMRS

Marine / Shipping

other



[Miscellaneous](#)

[Environmental Confirmations](#)

[Confirmation](#)



VDE

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=3RV1042-4BA10>

Cax online generator

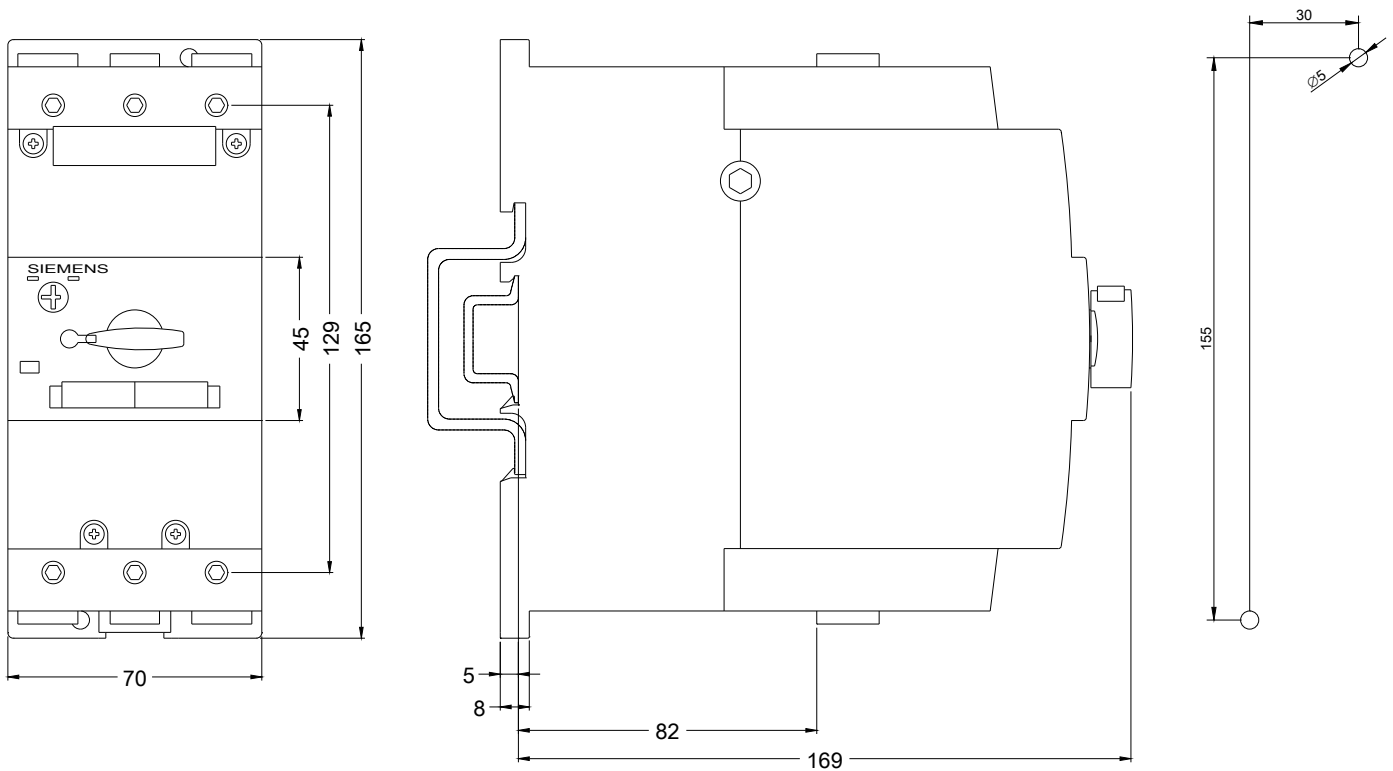
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1042-4BA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1042-4BA10>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1042-4BA10&lang=en



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