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Show actual product details

Data sheet 3RV1042-4AA10

CIRCUIT-BREAKER SIZE S3 A-RELEASE 11...16 A, N-RELEASE 208 A, MOTOR PROTECTION, CLASS 10, SCREW CONNECTION, INCREASED BREAKING CAPACITY

Figure similar

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

General technical data	
Product extension	
• Auxiliary switch	Yes
Power loss [W] total typical	20 W
Surge voltage resistance rated value	6 000 V
Protection class IP	
• on the front	IP20
Shock resistance	25g / 11 ms
Mechanical service life (switching cycles)	
• of the main contacts typical	50 000

Ambient conditions	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	

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• during operation	-20 ... +60 °C
• 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	11 ... 16 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	16 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	
Trip class	CLASS 10
Maximum short-circuit current breaking capacity (Icu)	
• 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

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	0 mm

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— at the side	0 mm

Connections/Terminals

Product function	
• removable terminal for auxiliary and control circuit	No
Type of electrical connection	
• for main current circuit	screw-type terminals with box terminals
• for auxiliary and control current circuit	screw-type terminals
Arrangement of electrical connectors for main current circuit	front side
Type of connectable conductor cross-sections	
• for main contacts	
— 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	
CCC	CSA	UL		ATEX	IECEx

Declaration of Conformity	Test Certificates	Shipping Approval			
EG-Konf.	spezielle Prüfbescheinigungen	ABS		DNV	GL

Shipping Approval		other			
LRS	RMRS	Bestätigungen	sonstig	Umweltbestätigung	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=3RV1042-4AA10

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1042-4AA10

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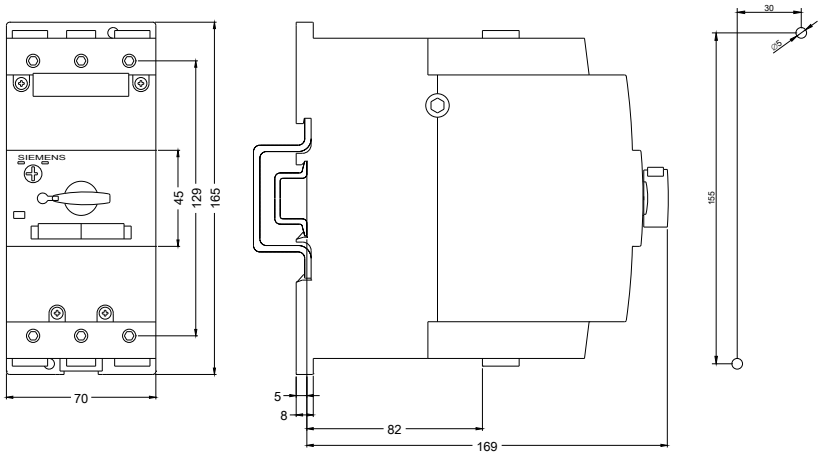
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RV1042-4AA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1042-4AA10&lang=en



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