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Data sheet 3RV1041-4JA10



Figure similar

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

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

General technical data:

Product expansion	
• Auxiliary switch	Yes
Active power loss total typical	20 W
Surge voltage resistance Rated value	6 000 V
Protection class IP	
• on the front	IP20
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	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-50 ... +80 °C

Main circuit:

Adjustable response value current of the current-dependent overload release	45 ... 63 A
• Operating voltage Rated value	690 V
• Operating voltage at AC-3 Rated value maximum	690 V

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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:	
Trip class	CLASS 10
Maximum short-circuit current breaking capacity (Icu)	
• with AC at 240 V Rated value	100 kA
• with AC at 400 V Rated value	50 kA
• with AC at 500 V Rated value	12 kA
• with AC at 690 V Rated value	6 kA

Short-circuit:	
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
— 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

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Type of connectable conductor cross-section	
• 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
• for AWG conductors for main contacts	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
CCC	CSA	UL	EAC	ATEX	EG-Konf.

Test Certificates	Shipping Approval				
spezielle Prüfbescheinigungen	ABS	BUREAU VERITAS	DNV	GL	LRS

Shipping Approval	other			
RMRS	Umweltbestätigung	sonstig	Bestätigungen	VDE

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

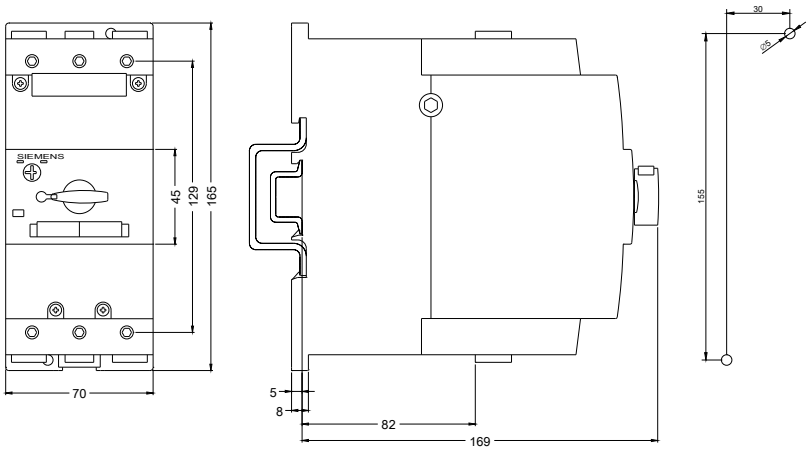
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

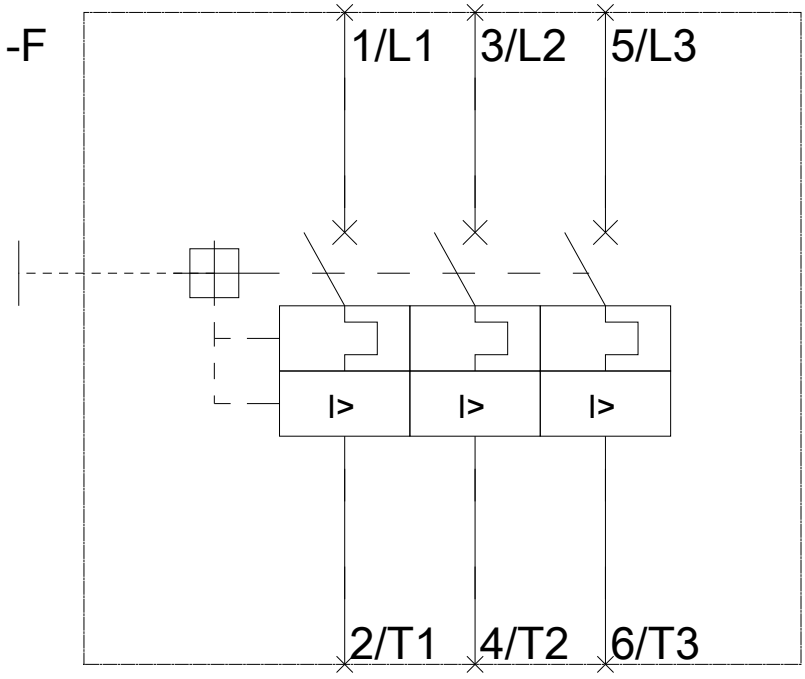
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV10414JA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RV10414JA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV10414JA10&lang=en

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last modified: 27.06.2015

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