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Data sheet 3RV1041-4MA10

Circuit breaker size S3 for motor protection, Class 10 A-release 80...100 A Short-circuit release 1235 A Screw terminal Standard switching capacity !!! Phased-out product !!! Successor is SIRIUS 3RV2 Preferred successor type is >>3RV2041-4MA10<<

Figure similar

Product brand name	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	38 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
Continuous current rated value	100 A

Ambient conditions

Installation altitude at height above sea level	
• maximum	2 000 m

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Ambient temperature	
• 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	80 ... 100 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	100 A
Operating power	
• at AC-3	
— at 400 V rated value	45 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 (Icu)	
• 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	8 kA
• at AC at 690 V rated value	5 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

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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
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	Marine / Shipping			
EG-Konf.	Special Test Certificate	ABS		LRS	RMRS

Marine / Shipping	other		
	Confirmation	Miscellaneous	
			VDE

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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=3RV1041-4MA10

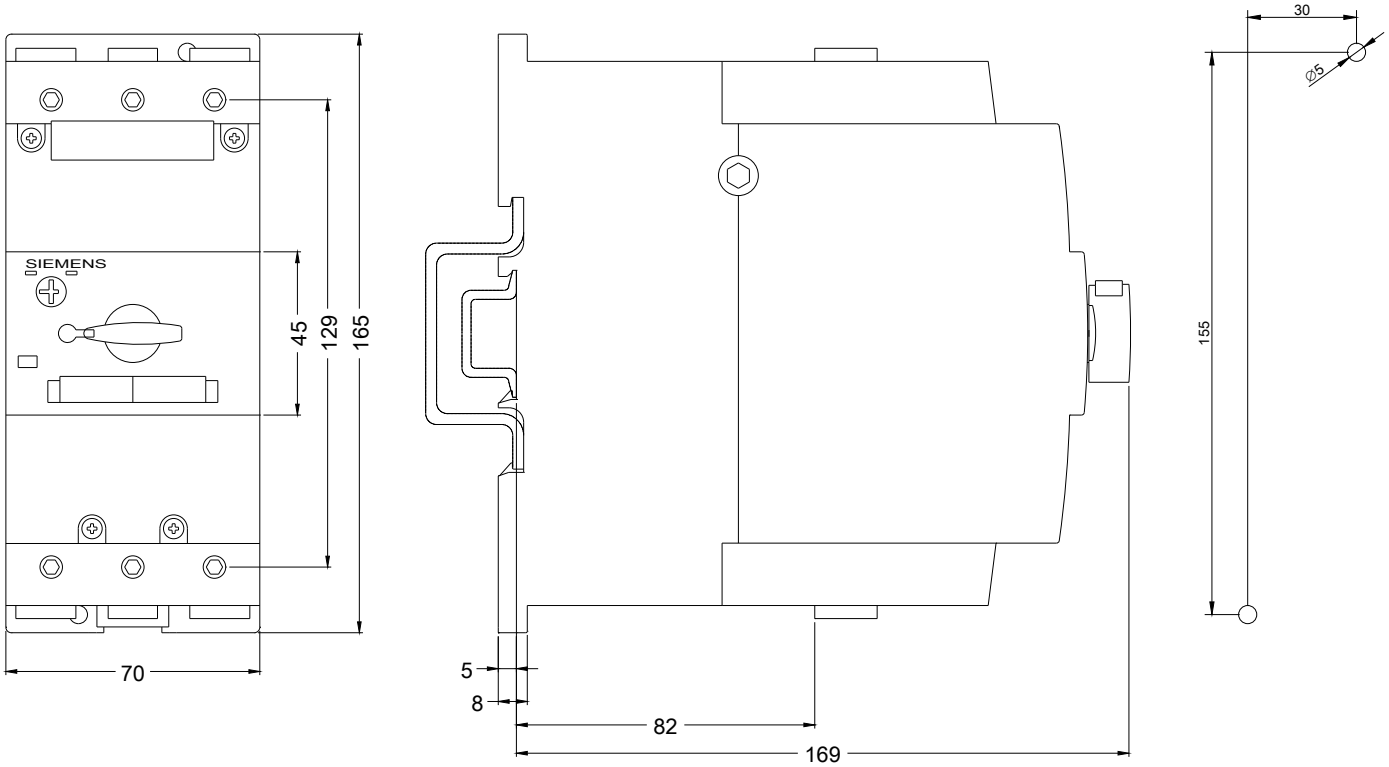
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1041-4MA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RV1041-4MA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1041-4MA10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RV1041-4MA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1041-4MA10&objecttype=14&gridview=view1



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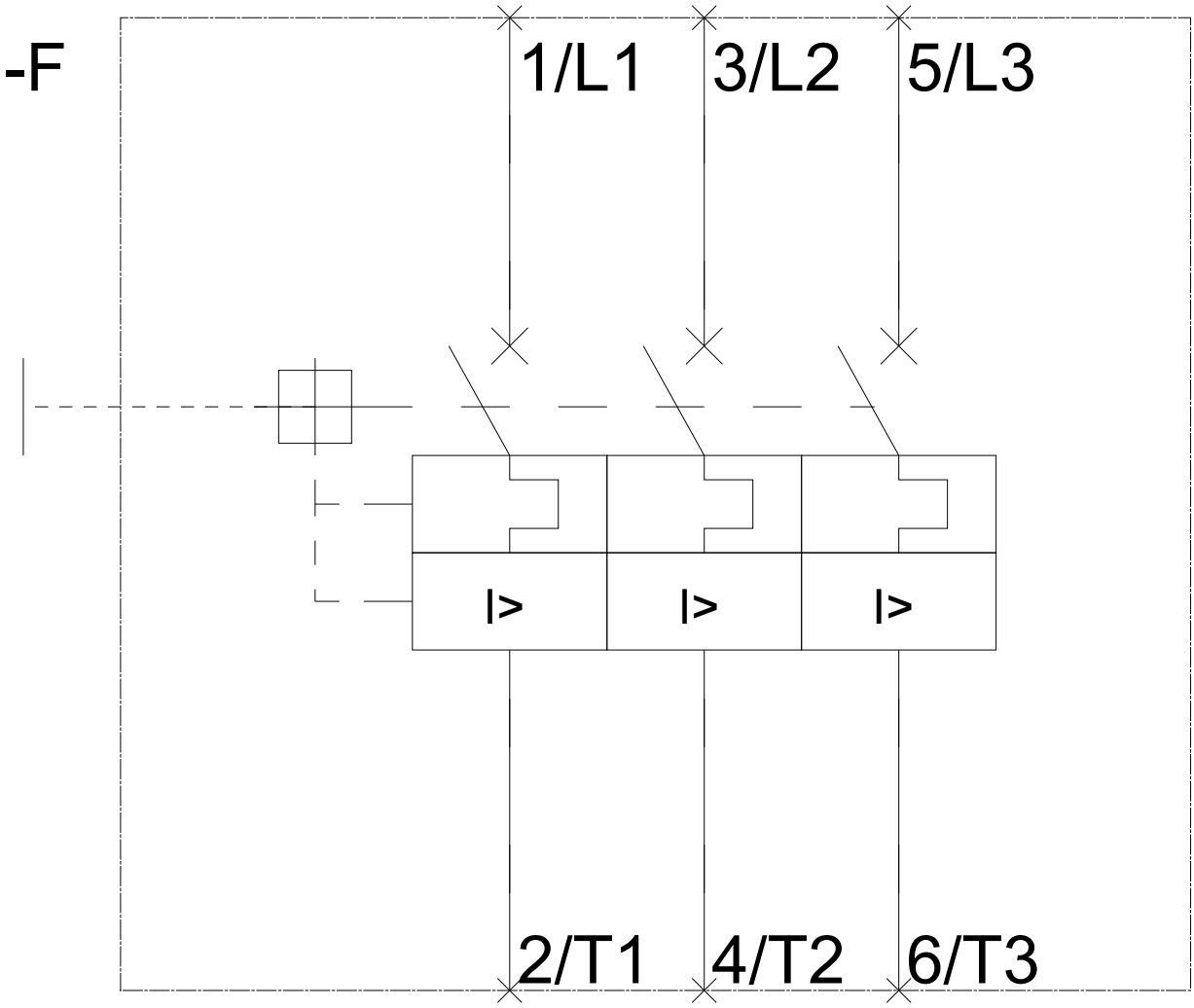

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