

CIRCUIT-BREAKER SIZE S3 A-RELEASE 70...90 A, N-RELEASE 1170 A MOTOR PROTECTION, CLASS 10 SCREW CONNECTION STANDARD BREAKING CAPACITY



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	30 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	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C

- during transport

-50 ... +80 °C

Main circuit:

Adjustable pick-up value current of the current-dependent overload release	70 ... 90 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	90 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:

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	8 kA
• at AC at 690 V rated value	5 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	0 mm
— at the side	0 mm

Connections/ Terminals:

Product function	No
<ul style="list-style-type: none"> removable terminal for auxiliary and control circuit 	
Type of electrical connection	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 — stranded — finely stranded with core end processing at AWG conductors for main contacts 	2x (2.5 ... 16 mm ²) 2x (10 ... 50 mm ²), 1x (10 ... 70 mm ²) 2x (2.5 ... 35 mm ²), 2.5 ... 50 mm ² 2x (10 ... 1), 1x (10 ... 2)

Certificates/approvals

General Product Approval	For use in hazardous locations
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Declaration of Conformity	Test Certificates	Shipping Approval
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[spezielle Prüfbescheinigung](#)
n



Shipping Approval	other
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[Umweltbestätigung](#)

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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

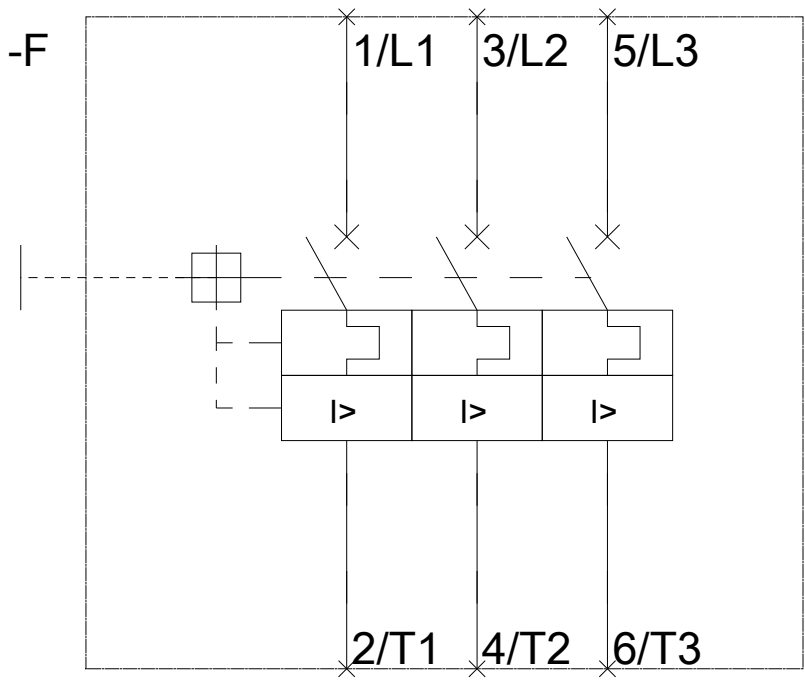
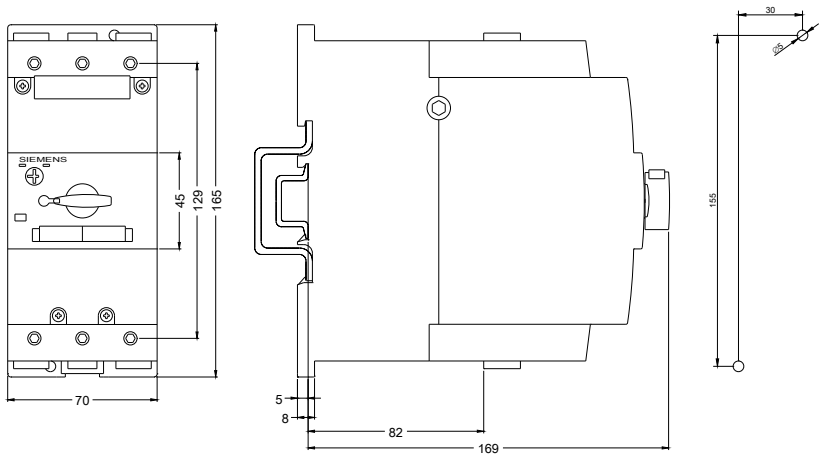
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV10414LA10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV10414LA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV10414LA10>



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