

CIRCUIT-BREAKER N-RELEASE 520 A, SIZE S2 STARTER PROTECTION, 50 KA SCREW CONNECTION STANDARD BREAKING CAPACITY



Figure similar

Product brand name	SIRIUS
Product designation	circuit breaker
Design of the product	for starter combinations

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
Continuous current rated value	40 A

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

Ambient temperature	
<ul style="list-style-type: none"> during operation 	-20 ... +60 °C
<ul style="list-style-type: none"> during storage 	-50 ... +80 °C
<ul style="list-style-type: none"> during transport 	-50 ... +80 °C

Main circuit

Number of poles for main current circuit	3
Operating voltage	
<ul style="list-style-type: none"> rated value 	690 V
<ul style="list-style-type: none"> at AC-3 rated value maximum 	690 V
Operating current	
<ul style="list-style-type: none"> at AC-3 	
<ul style="list-style-type: none"> — at 400 V rated value 	40 A
Operating power	
<ul style="list-style-type: none"> at AC-3 	
<ul style="list-style-type: none"> — at 400 V rated value 	18.5 kW
Operating frequency	
<ul style="list-style-type: none"> at AC-3 maximum 	15 1/h

Auxiliary circuit

Number of CO contacts	
<ul style="list-style-type: none"> for auxiliary contacts 	0

Protective and monitoring functions

Product function	
<ul style="list-style-type: none"> Ground fault detection 	No
<ul style="list-style-type: none"> Phase failure detection 	No
Maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> at AC at 240 V rated value 	100 kA
<ul style="list-style-type: none"> at AC at 400 V rated value 	50 kA
<ul style="list-style-type: none"> at AC at 500 V rated value 	10 kA
<ul style="list-style-type: none"> at AC at 690 V rated value 	4 kA

Short-circuit protection

Design of the overcurrent release and short-circuit release	magnetic
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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	140 mm
Width	55 mm
Depth	149 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	2x (0.75 ... 16 mm ²) 2x (0.75 ... 25 mm ²), 1x (0.75 ... 35 mm ²) 2x (0.75 ... 16 mm ²), 0.75 ... 25 mm ² 2x (18 ... 2), 1x (18 ... 2)
<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 	

Certificates/approvals

General Product Approval	Declaration of Conformity	Test Certificates
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[Special Test Certificate](#)

Marine / Shipping	other
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[Miscellaneous](#)

[Confirmation](#)

other

[Environmental Confirmations](#)



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=3RV1331-4FC10>

Cax online generator

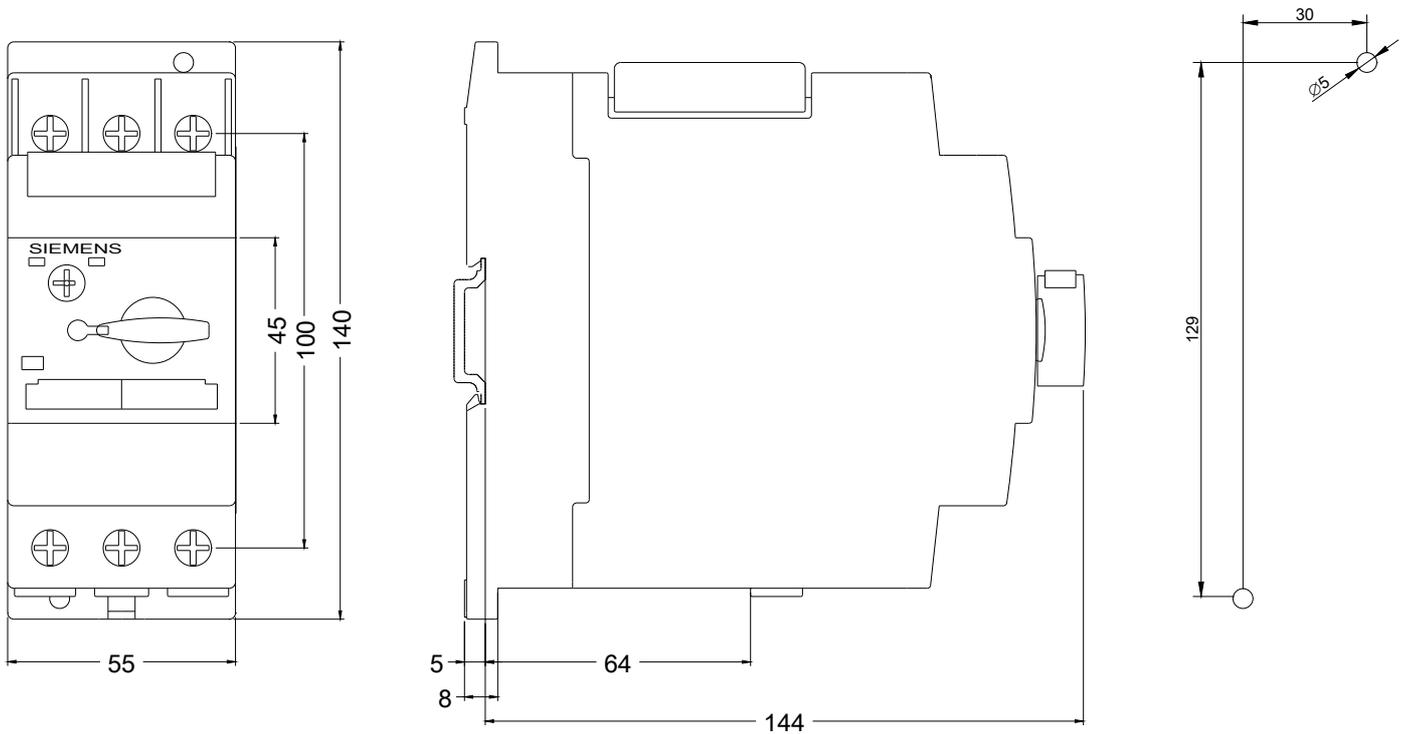
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1331-4FC10>

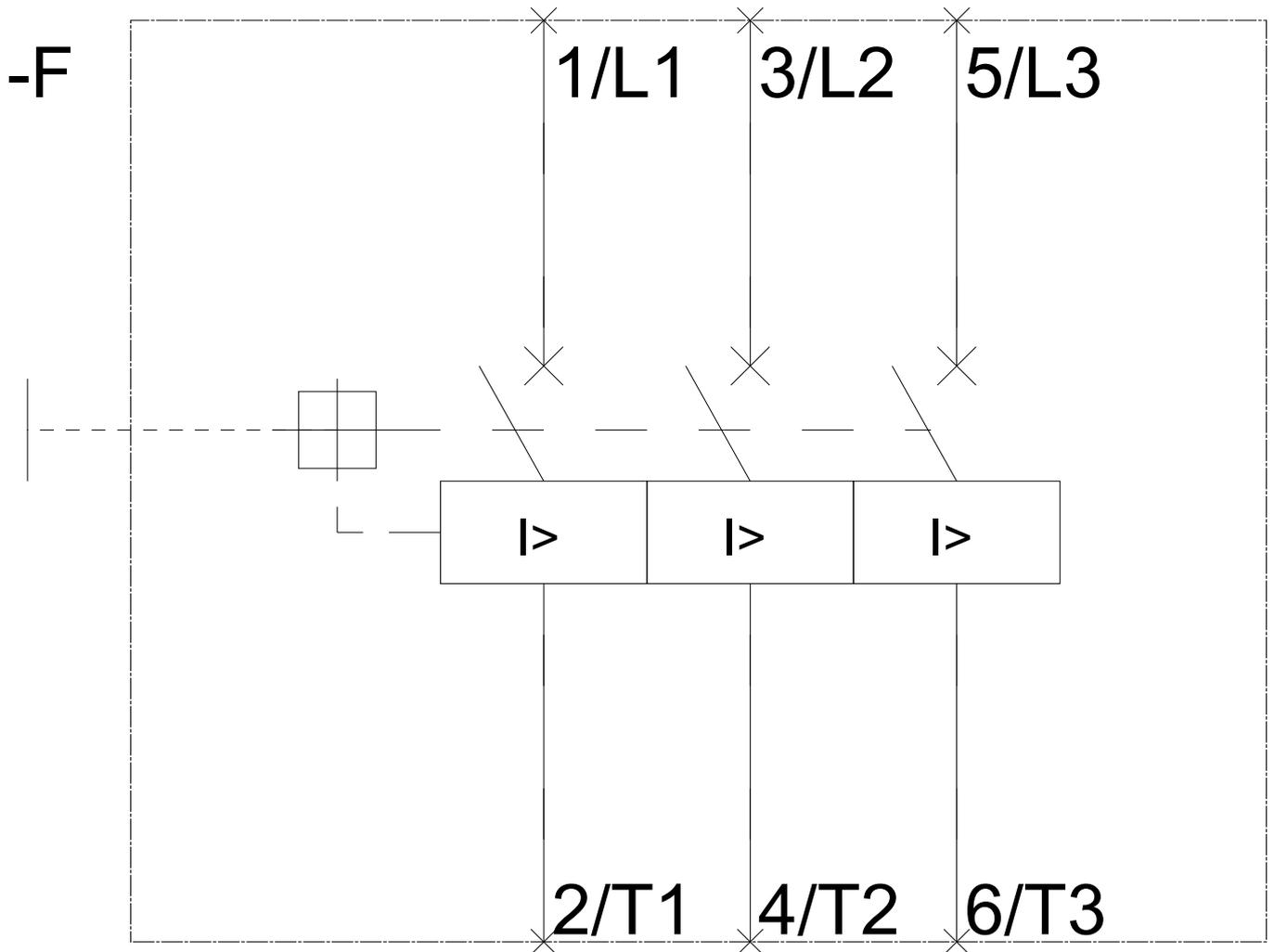
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1331-4FC10>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1331-4FC10&lang=en





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