

CIRCUIT-BREAKER, 14...20 A N-RELEASE 416 A, SIZE S2
TRANSFORMER PROTECTION, CL. 10, 50KA, SCREW
CONNECTION STANDARD BREAKING CAPACITY



Figure similar

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

General technical data	
Product extension	
• Auxiliary switch	Yes
Power loss [W] total typical	12 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

Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	14 ... 20 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	20 A
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	12 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	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	
removable terminal for auxiliary and control circuit	No
Type of electrical connection	
- for main current circuit - for auxiliary and control current circuit	screw-type terminals with box terminals screw-type terminals
Arrangement of electrical connectors for main current circuit	front side
Type of connectable conductor cross-sections	
- for main contacts — solid — stranded — finely stranded with core end processing - at AWG conductors for main contacts	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)

Certificates/approvals

General Product Approval	Declaration of Conformity	Test Certificates
 CCC	 EAC	 EG-Konf.
 CSA		spezielle Prüfbescheinigungen n
 UL		

Shipping Approval



other

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Further information

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

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

Industry Mall (Online ordering system)

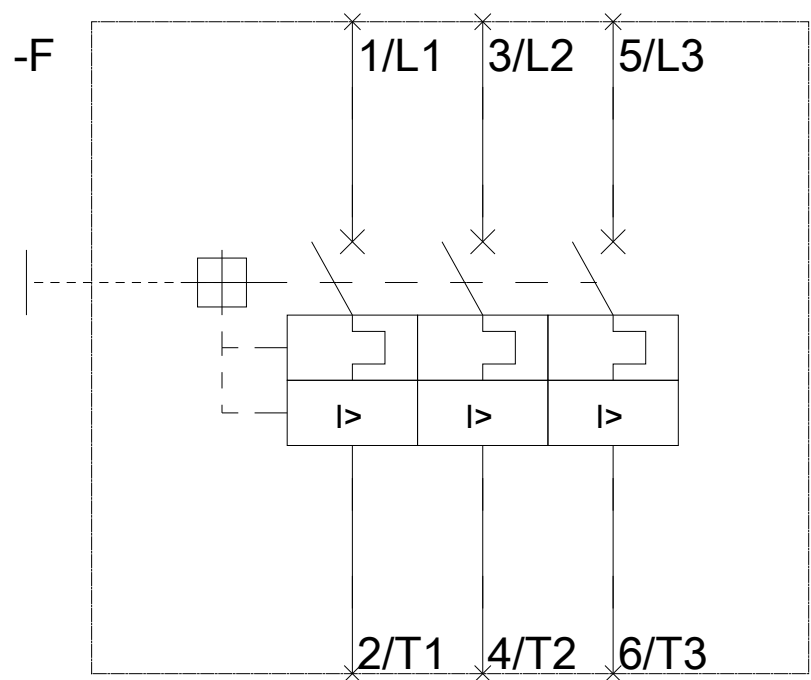
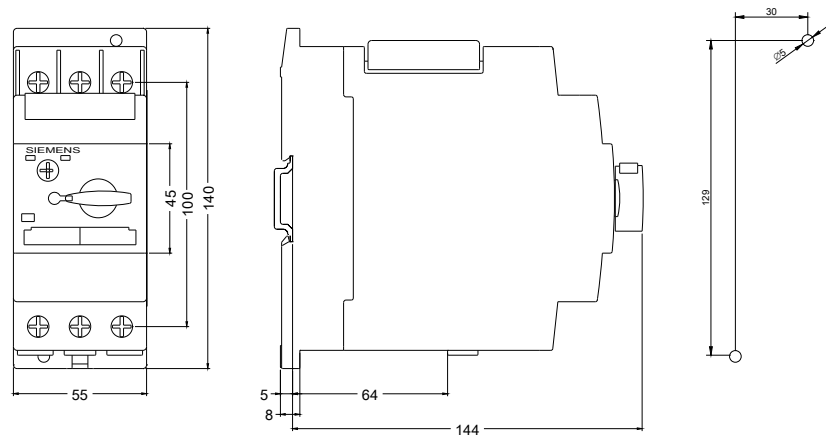
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1431-4BA10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1431-4BA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1431-4BA10>



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