



Figure similar

CIRCUIT-BREAKER, SIZE S3, FOR MOTOR PROTECTION, CLASS 10, A-RES. 70...90 A, N-RES. 1170 A 1 NO + 1 NC TRANSVERSE, SCREW CONNECTION, STANDARD SWITCHING CAPACITY

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

General technical data:

Active power loss total typical	W	30
Shock resistance		25g / 11 ms
Surge voltage resistance Rated value	V	6 000
Mechanical service life (switching cycles)		
• of the main contacts typical		50 000
Protection class IP		
• on the front		IP20
Equipment marking		
• acc. to DIN EN 61346-2		Q

Main circuit:

Number of poles for main current circuit		3
Adjustable response value current of the current-dependent overload release	A	70 ... 90
Operating voltage		
• Rated value	V	690
• at AC-3 Rated value maximum	V	690
Operating current		
• at AC-3		
— at 400 V Rated value	A	90
Operating power		
• at AC-3		

— at 400 V Rated value	kW	45
Operating frequency		
• at AC-3 maximum	1/h	15

Auxiliary circuit:

Number of CO contacts		
• for auxiliary contacts		0
Product expansion Auxiliary switch		Yes
Design of the auxiliary switch		transverse
Operating current of the auxiliary contacts at AC-15		
• at 24 V	A	2
• at 230 V	A	0.5
Operating current of the auxiliary contacts at DC-13		
• at 24 V	A	1
• at 60 V	A	0.15

Protective and monitoring functions:

Trip class		CLASS 10
Maximum short-circuit current breaking capacity (Icu)		
• with AC at 240 V Rated value	kA	100
• with AC at 400 V Rated value	kA	50
• with AC at 500 V Rated value	kA	8
• with AC at 690 V Rated value	kA	5

Short-circuit:

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	mm	165
Width	mm	70
Depth	mm	174
Required spacing		
• with side-by-side mounting		
— Backwards	mm	0
— at the side	mm	0

Connections/ Terminals:

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

Product function		
removable terminal for auxiliary and control circuit		No
Type of connectable conductor cross-section		
- for main contacts — solid — stranded — finely stranded with core end processing - for AWG conductors for main contacts - for auxiliary contacts — solid — finely stranded with core end processing - for AWG conductors for auxiliary 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) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (18 ... 14)
Safety related data:		
Protection against electrical shock		finger-safe
Mechanical data:		
Size of the circuit-breaker		S3
Ambient conditions:		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
- during operation - during storage - during transport	°C °C °C	-20 ... +60 -50 ... +80 -50 ... +80
Certificates/ approvals:		

General Product Approval				Test Certificates	Shipping Approval
 CCC	 CSA	 UL		Special Test Certificate	 ABS

Shipping Approval					other
 BUREAU VERITAS	 DNV	 GL	 LRS	 RMRS	Confirmation

other				
Declaration of Conformity	Environmental Confirmations	 VDE	other	

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

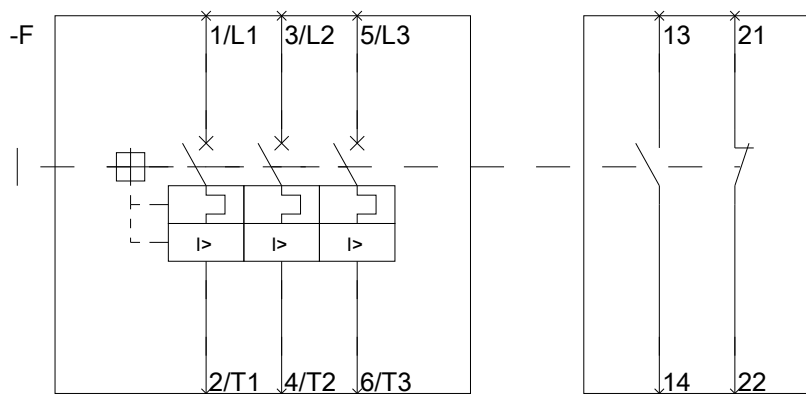
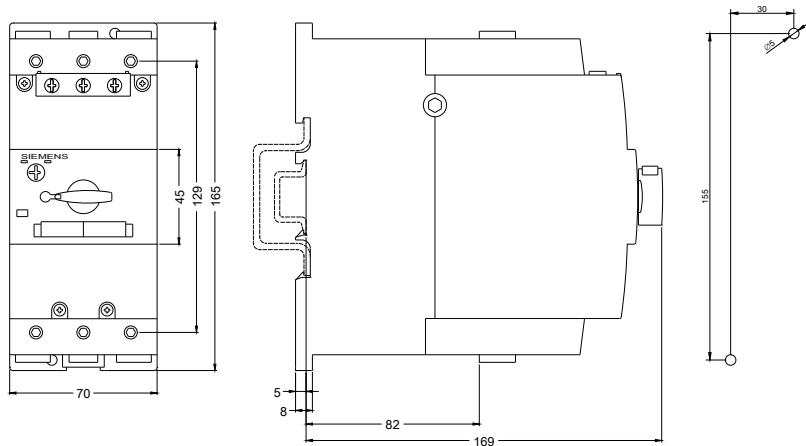
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV10414LA15>

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

<http://support.automation.siemens.com/WW/view/en/3RV10414LA15/all>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV10414LA15&lang=en



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