



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

General technical data:

product brand name		SIRIUS
Product designation		circuit breaker
Size of the circuit-breaker		S3
Number of poles / for main current circuit		3
Product function		
• removable terminal for auxiliary and control circuit		No
• overload protection		Yes
• phase disturbance recognition		Yes
• short-circuit to earth recognition		No
Product component		
• auxiliary switch		Yes
• undervoltage release mechanism		No
• trip indicator		Yes
Product extension		
• auxiliary switch		Yes
• optional / motor drive		Yes
Impulse voltage resistance / rated value	V	6,000
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe

Installation altitude / at a height over sea level / maximum	m	2,000
Resistance against shock		25g / 11 ms
Ambient temperature		
• during transport	°C	-50 ... +80
• during storage	°C	-50 ... +80
• during operating	°C	-20 ... +60
Active power loss / total / typical	W	30

Main circuit:		
Operating voltage / rated value	V	690
Service power / at AC-3 / at 400 V / rated value	kW	45
Operating current / at AC-3 / at 400 V / rated value	A	90
Mechanical operating cycles as operating time / of the main contacts / typical		50,000
Frequency of operation / with AC-3 / maximum	1/h	15

Auxiliary circuit:		
Design of the auxiliary switch		transverse
Number of changeover contacts / for auxiliary contacts		0
Operating current / of the auxiliary contacts		
• at AC-15		
• at 24 V	A	2
• at 230 V	A	0.5
• at DC-13		
• at 24 V	A	1
• at 60 V	A	0.15

Protection function:		
Trip class		CLASS 10
Adjustable response current / of the current-dependent overload release	A	70 ... 90

Installation/mounting/dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
mounting position		any
Depth	mm	174
Height	mm	165
Width	mm	70

Connections:		
Arrangement of electrical connectors / for main current circuit		front side
Design of the electrical connection		

• for main current circuit • for auxiliary and control current circuit		screw-type terminals with box terminals screw-type terminals
Type of the connectable conductor cross-section • for main contacts • solid • finely stranded • with conductor end processing • stranded • for AWG conductors / for main contacts • for auxiliary contacts • solid • finely stranded / with conductor end processing • for AWG conductors / for auxiliary contacts		2x (2.5 ... 16 mm ²) 2x (2.5 ... 35 mm ²), 2.5 ... 50 mm ² 2x (10 ... 50 mm ²), 1x (10 ... 70 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)

Certificates/approvals:

General Product Approval



CCC



CSA



UL

Test Certificates

[Special Test Certificate](#)

Shipping Approval



ABS



BUREAU
VERITAS



DNV



GL



LRS



RMRS

other

[Confirmation](#)

[Declaration of
Conformity](#)

[other](#)

[Environmental
Confirmations](#)

Further information:

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

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

Industry Mall (Online ordering system)

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

Cax online generator:

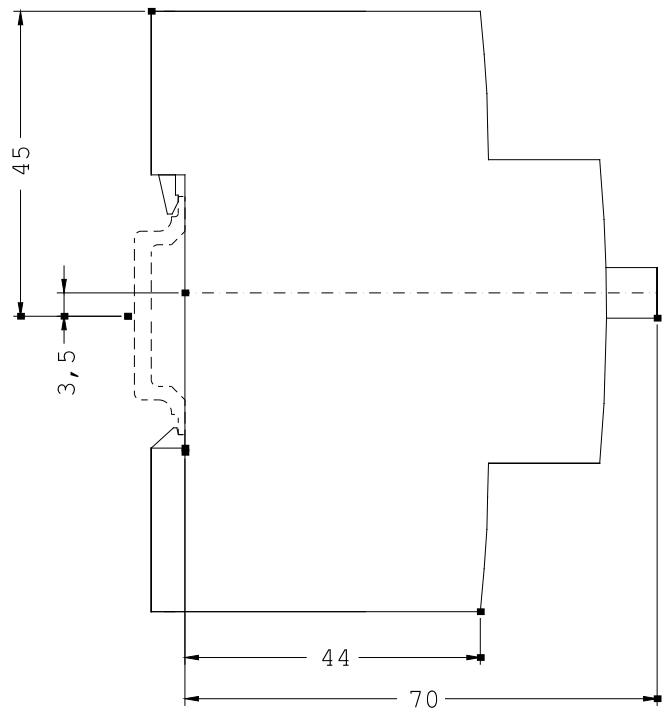
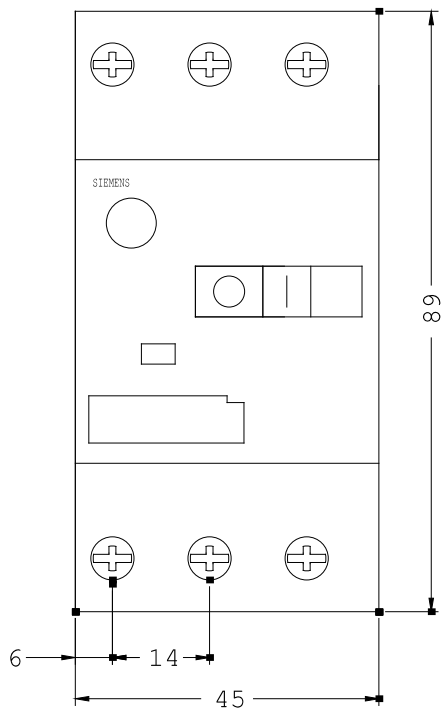
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RV1041-4LA15/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV1041-4LA15



last change:

Jul 7, 2014