

CIRCUIT-BREAKER 40...50 A,
N-RELEASE 650 A, SIZE S2,
MOTOR PROTECTION CLASS 10 SCREW CONNECTION
STANDARD BREAKING CAPACITY MULTI PACKING
PACKING = 12 ITEMS

General technical data:

product brand name		SIRIUS
product designation		circuit breaker
Size of the circuit-breaker		S2
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		No
• undervoltage release mechanism		No
• trip indicator		No
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 ... +70
Active power loss / total / typical	W	20

Main circuit:

Operating voltage / rated value	V	690
type of voltage		AC/DC

Service power / at AC-3 / at 400 V / rated value	kW	22
Operational current / at AC-3 / at 400 V / rated value	A	50
Mechanical operating cycles as operating time / of the main contacts / typical		50,000
Frequency of operation / at AC-3 / according to IEC 60947-6-2	1/h	15

Auxiliary circuit:

Number of change-over switches / for auxiliary contacts

0

Protection function:

Trip class

CLASS 10

Adjustable response current / of the current-dependent overload release

A

40 ... 50

Breaking capacity limit short-circuit current (I_{cu})

- at 400 V / rated value
- at 500 V / rated value
- at 690 V / rated value

kA

50

kA

10

kA

4

Installation/mounting/dimensions:

Type of mounting

screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022

mounting position

any

Depth

mm

149

Height

mm

140

Width

mm

55

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

2x (0.75 ... 16 mm²)

2x (0.75 ... 16 mm²), 0.75 ... 25 mm²

2x (0.75 ... 25 mm²), 0.75 ... 35 mm²

2x (18 ... 2), 1x (18 ... 2)

Certificates/approvals:

General Product Approval

For use in
hazardous
locations



CCC



CSA



GOST



KETI



UL



ATEX

Declaration of Conformity

Test Certificates



EG-Konf.

[Special Test
Certificate](#)

Shipping Approval



ABS



BUREAU
VERITAS



DNV



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:

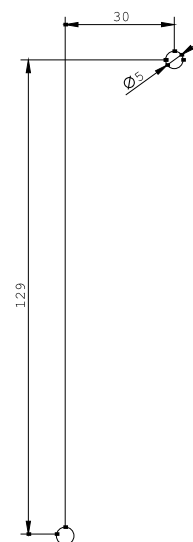
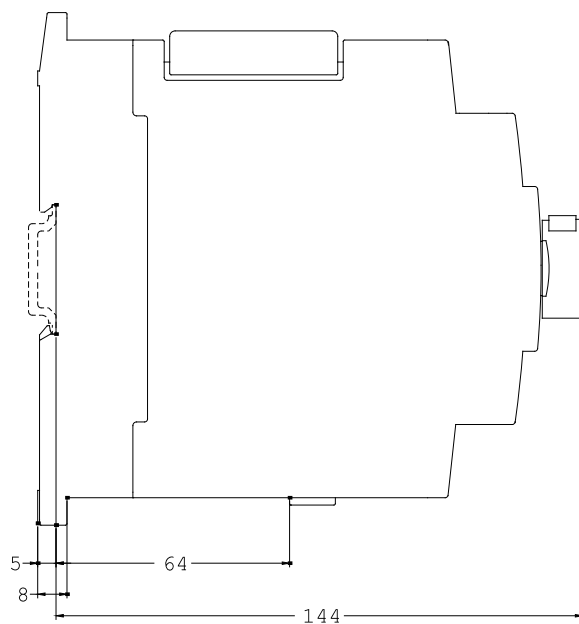
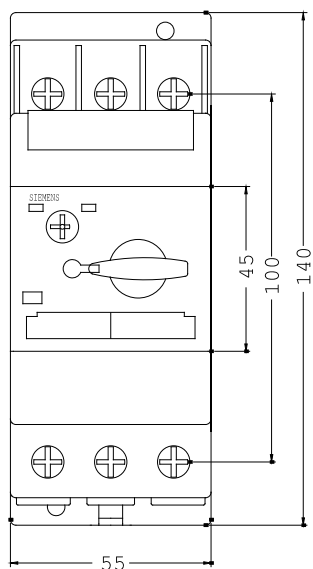
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RV1031-4HA10-ZW96/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV1031-4HA10-ZW96



last change:

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