

CONTACTOR, AC-3 4 KW/400 V, 1 NC,
DC 24 V, 3-POLE, SIZE S00,
SCREW CONNECTION

General technical data:

product brand name		SIRIUS
Size of contactor		S00
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at height above sea level / maximum	m	2,000
Ambient temperature		
• during operation	°C	-25 ... +60
Mechanical service life (switching cycles)		
• of the contactor / typical		30,000,000
• of the contactor with added auxiliary switch block / typical		10,000,000
• of the contactor with added electronics-compatible auxiliary switch block / typical		5,000,000

Main circuit:

Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Operating current		
• at AC-1 / up to 690 V		
• at ambient temperature 40 °C / Rated value	A	22
• at ambient temperature 60 °C / Rated value	A	20
• at AC-3 / at 400 V / Rated value	A	9
• at AC-4 / at 400 V / Rated value	A	8.5
Operating current		
• with 1 current path / at DC-1		
• at 24 V / Rated value	A	20
• at 110 V / Rated value	A	2.1
• with 2 current paths in series / at DC-1		
• at 24 V / Rated value	A	20
• at 110 V / Rated value	A	12
• with 3 current paths in series / at DC-1		
• at 24 V / Rated value	A	20
• at 110 V / Rated value	A	20

Operating current		
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / Rated value	A	20
• at 110 V / Rated value	A	0.15
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	A	20
• at 110 V / Rated value	A	0.35
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	A	20
• at 110 V / Rated value	A	20
Operating power		
• at AC-1		
• at 400 V / Rated value	kW	13
• at AC-2		
• at 400 V / Rated value	kW	4
• at AC-3		
• at 400 V / Rated value	kW	4
• at 500 V / Rated value	kW	4.5
• at 690 V / Rated value	kW	5.5
• at AC-4		
• at 400 V / Rated value	W	4,000
Active power loss / at AC-3 / at 400 V / for rated value of the operating current / per conductor	W	0.7

Control circuit/ Control:

Type of voltage / of the control supply voltage		DC
Control supply voltage		
• for DC / Rated value	V	24
Operating range factor control supply voltage rated value / of the magnet coil		
• for DC		0.85 ... 1.1
Closing power / of the magnet coil / for DC	W	3.3
Holding power / of the magnet coil / for DC	W	3.3

Auxiliary circuit:

Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts / instantaneous contact		1
Number of NO contacts / for auxiliary contacts / instantaneous contact		0
Operating current		
• at AC-12 / maximum	A	10

<ul style="list-style-type: none"> • at AC-15 <ul style="list-style-type: none"> • at 230 V / Rated value • at 400 V / Rated value 	A	6
	A	3
Operating current / at DC-12		
<ul style="list-style-type: none"> • at 60 V / Rated value • at 110 V / Rated value • at 220 V / Rated value 	A	6
	A	3
	A	1
Operating current / at DC-13		
<ul style="list-style-type: none"> • at 24 V / Rated value • at 60 V / Rated value • at 110 V / Rated value • at 220 V / Rated value 	A	10
	A	2
	A	1
	A	0.3

Short-circuit:

Design of the fuse link

- for short-circuit protection of the auxiliary switch / required
- for short-circuit protection of the main circuit
 - with type of assignment 1 / required
 - with type of assignment 2 / required

fuse gL/gG: 10 A

fuse gL/gG: 35 A

fuse gL/gG: 20 A

Installation/ mounting/ dimensions:

Mounting type

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

Mounting type / Side-by-side mounting

Yes

Width

mm 45

Height

mm 57.5

Depth

mm 72

Spacing required / for grounded parts

mm 6

Connections/ terminals:

Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals

screw-type terminals

Type of connectable conductor cross-section

- for main contacts
 - solid
 - finely stranded
 - with core end processing
- for AWG conductors / for main contacts
- for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 1x 12

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- finely stranded
 - with core end processing
- for AWG conductors / for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

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2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/ approvals:

General Product Approval

Functional Safety / Safety of Machinery



CCC



CSA



UL



UR

[Type Examination](#)

Declaration of Conformity

Test Certificates



EG-Konf.

[other](#)

[Special Test Certificate](#)

Shipping Approval



ABS



DNV



GL



LRS



PRS



RINA

Shipping Approval

other



RMRS

[Confirmation](#)

[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/industrymall>

Cax online generator

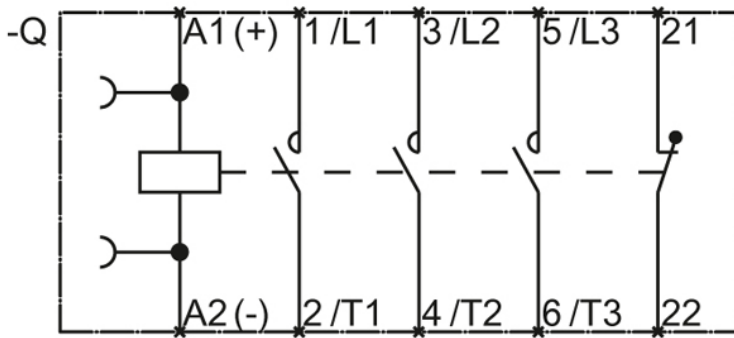
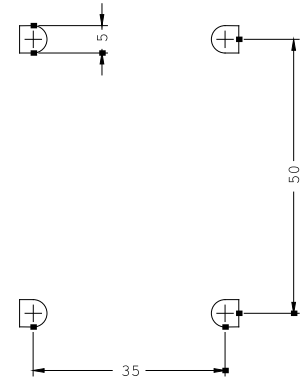
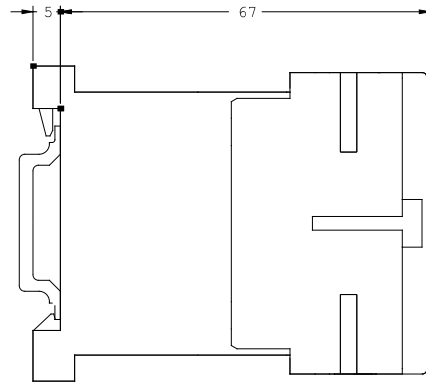
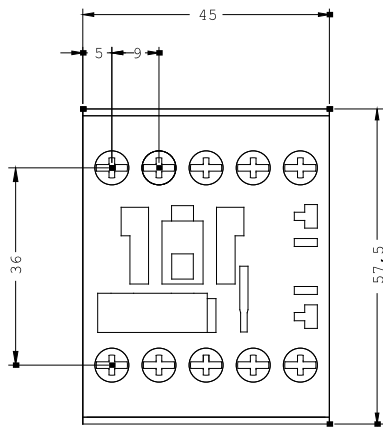
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WWW/view/en/3RT1016-1BB42/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1016-1BB42



last change:

Nov 11, 2014