

CONTACTOR, AC-3 4 KW/400 V, AC-1 18 A,
42 V AC 50/60 HZ 4 POLE, 2 NO + 2 NC,
MOD. S00 CAGE CLAMP CONNECTION AC 100V
50HZ/100...110V,
60HZ

General technical data:

product brand name		SIRIUS
Size of the contactor		S00
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
• during storage	°C	-55 ... +80
• during operating	°C	-25 ... +60
Insulation voltage / rated value	V	690
Mechanical operating cycles as operating time		
• 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		2
Number of NO contacts / for main contacts		2
Operational current / at AC-1 / up to 690 V		
• at 40 °C ambient temperature / rated value	A	18
• at 60 °C ambient temperature / rated value	A	16
Operating current / at AC-2 / at AC-3		
• at 400 V		
• per NO contact / rated value	A	9
• per NC contact / rated value	A	9
Operating current		
• with 1 current path / at DC-1		
• at 24 V / rated value	A	16
• at 110 V / rated value	A	2.1

• at 220 V / rated value	A	0.8
• at 440 V / rated value	A	0.6
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	16
• at 110 V / rated value	A	12
• at 220 V / rated value	A	1.6
• at 440 V / rated value	A	0.8
Operating current		
• with 1 current path / at DC-3 / at DC-5		
• at 24 V		
• per NO contact / rated value	A	16
• per NC contact / rated value	A	16
• at 110 V		
• per NO contact / rated value	A	0.15
• per NC contact / rated value	A	0.075
• at 220 V		
• per NO contact / rated value	A	0.75
• per NC contact / rated value	A	0.375
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V		
• per NO contact / rated value	A	16
• per NC contact / rated value	A	16
• at 110 V		
• per NO contact / rated value	A	0.35
• per NC contact / rated value	A	0.175
Operating performance		
• at AC-1		
• at 230 V / rated value	kW	6.5
• at 400 V / rated value	kW	11
• at AC-2 / at AC-3		
• at 230 V		
• per NO contact / rated value	kW	3
• per NC contact / rated value	kW	3
• at 400 V		
• per NO contact / rated value	kW	4
• per NC contact / rated value	kW	4
Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor		
	W	0.7
Frequency of operation		
• with AC-1 / maximum	1/h	1,000

- at AC-2 / at AC-3 / maximum

1/h 750

Control circuit/ Control:

Voltage type / of control feed voltage

AC

Control supply voltage

- at 50 Hz / at AC / rated value
- at 60 Hz / at AC
- rated value

V

100

V

100 ... 110

operating range factor control supply voltage rated value / of the magnet coil

- at 50 Hz / for AC
- at 60 Hz / for AC

0.8 ... 1.1

0.85 ... 1.1

Apparent pull-in power / of the solenoid / for AC

V·A

31.7

Apparent holding power / of the solenoid / for AC

V·A

5.1

Inductive power factor

- with the pull-in power of the coil
- with the pull-in power of the coil

0.77

0.27

Closing delay

- at AC
- at DC

ms

8 ... 35

ms

25 ... 100

Opening delay

- at AC
- at DC

ms

4 ... 30

ms

7 ... 10

Arcing time

ms

10 ... 15

Residual current / of electronics / for control with signal <0>

- at 230 V / with AC / maximum permissible

A

0.0030

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 switching

0

Number of NO contacts / for auxiliary contacts / instantaneous switching

0

Operating current

- at AC-12 / maximum
- at AC-15 / at 230 V / rated value
- at AC-15 / at 400 V / rated value

A

10

A

6

A

3

Operating current / at DC-12

- 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		
• at 24 V / rated value	A	10
• at 60 V / rated value	A	2
• at 110 V / rated value	A	1
• at 220 V / rated value	A	0.3

Short-circuit:		
Design of the fuse link		
• for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 10 A
• for short-circuit protection of the main circuit		
• with type of assignment 1 / required		fuse gL/gG: 35 A
• at type of coordination 2 / required		fuse gL/gG: 20 A

Installation/ mounting/ dimensions:		
mounting position		with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Mounting type / series installation		Yes
Width	mm	45
Height	mm	60
Depth	mm	72

Connections/ terminals:		
Design of the electrical connection		
• for main current circuit		Cage Clamp terminals
• for auxiliary and control current circuit		Cage Clamp terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid		2x (0.25 ... 2.5 mm²)
• finely stranded		
• with conductor end processing		2x (0.25 ... 1.5 mm²)
• without conductor final cutting		2x (0.25 ... 2.5 mm²)
• for AWG conductors / for main contacts		2x (24 ... 14)
• for auxiliary contacts		
• solid		2x (0.25 ... 2.5 mm²)
• finely stranded		
• with conductor end processing		2x (0.25 ... 1.5 mm²)
• without conductor final cutting		2x (0.25 ... 2.5 mm²)
• for AWG conductors / for auxiliary contacts		2x (24 ... 14)

Certificates/ approvals:

General Product Approval



Functional Safety / Safety of Machinery

[Type Examination](#)

Declaration of Conformity



Test Certificates

[Special Test
Certificate](#)

Shipping Approval



other

[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

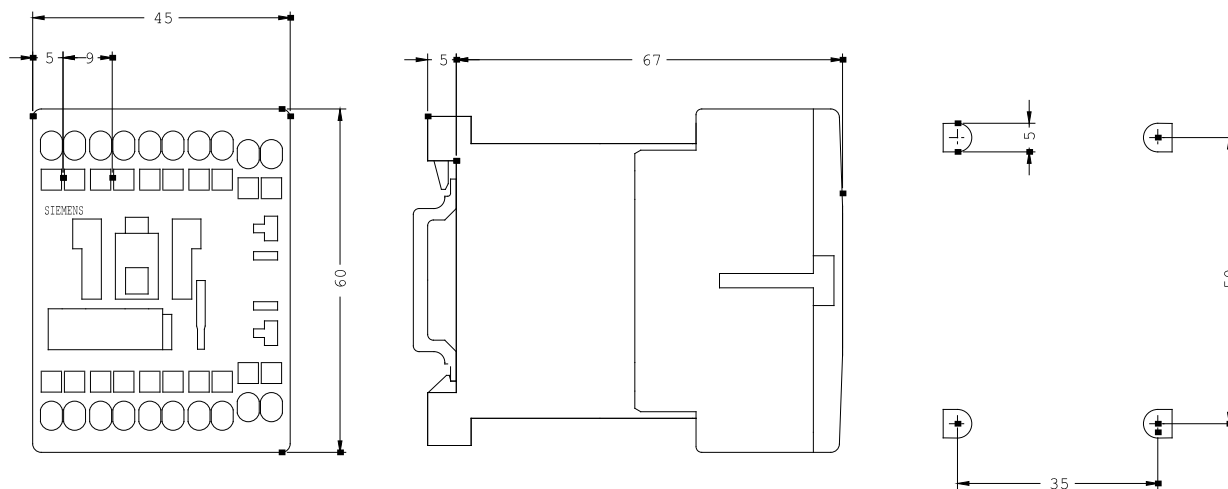
<http://www.siemens.com/cax>

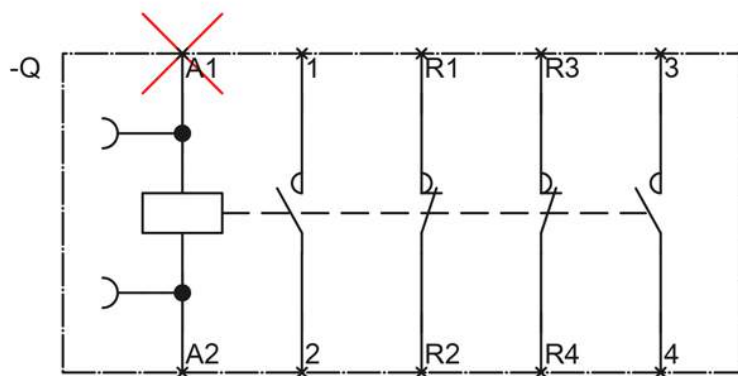
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT1516-2AG60/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1516-2AG60





last change:

Jul 28, 2014