



CONTACTOR, AC-3 22 KW/400 V,  
AC 24V 50/60HZ, 3-POLE, SIZE S2,  
SCREW CONNECTION

General technical data:		
product brand name		SIRIUS
Size of the contactor		S2
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature / during operating	°C	-25 ... +60
Mechanical operating cycles as operating time		
• of the contactor / typical		10,000,000
• 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 / at 400 V		
• at 40 °C ambient temperature / rated value	A	60
• at AC-3 / at 400 V / rated value	A	50
• at AC-4 / at 400 V / rated value	A	41

• with 1 current path / at DC-1		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	4.5
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	25
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	55
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	2.5
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	25
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	55
<b>Service power</b>		
• at AC-2 / at 400 V / rated value	kW	22
• at AC-3 / at 400 V / rated value	kW	22
• at AC-4 / at 400 V / rated value	W	22,000

Control circuit:		
<b>Voltage type / of control feed voltage</b>		AC
<b>Operating range factor control supply voltage rated value / of the magnet coil</b>		
• at 50 Hz		
• for AC		0.8 ... 1.1
• at 60 Hz		
• for AC		0.8 ... 1.1
<b>Apparent pull-in power / of the solenoid / for AC</b>	V·A	170
<b>Apparent holding power / of the solenoid / for AC</b>	V·A	15
<b>Inductive power factor / with the pull-in power of the coil</b>		0.76
<b>Inductive power factor / with the pull-in power of the coil</b>		0.35

Auxiliary circuit:		
<b>Contact reliability / of the auxiliary contacts</b>		1 faulty switching per 100 million (17 V, 1 mA)
<b>Number of NC contacts / for auxiliary contacts / instantaneous switching</b>		0
<b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b>		0

## 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
  - at type of coordination 2 / required

fuse gL/gG: 10 A

fuse gL/gG: 160 A

fuse gL/gG: 80 A

## Installation/mounting/dimensions:

### Mounting type

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

### series installation

Yes

### Width

mm

55

### Height

mm

112

### Depth

mm

115

### Distance, to be maintained, to earthed part / sideways

mm

6

## Connection type:

### Design of the electrical connection

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

screw-type terminals

screw-type terminals

### Type of the connectable conductor cross-section

- for main contacts
  - solid
  - stranded
  - finely stranded
    - with conductor end processing
    - without conductor final cutting
- for AWG conductors / for main contacts
- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing
- for AWG conductors / for auxiliary contacts

2x (0.75 ... 16 mm<sup>2</sup>)

2x (0.75 ... 25 mm<sup>2</sup>)

2x (0.75 ... 16 mm<sup>2</sup>)

2x (0.75 ... 16 mm<sup>2</sup>)

2x (18 ... 2)

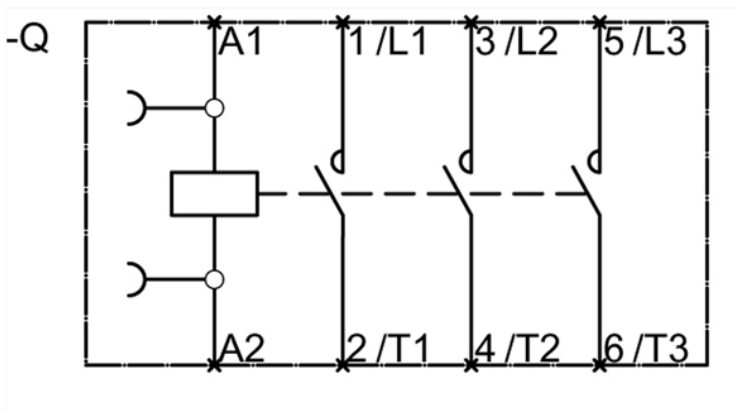
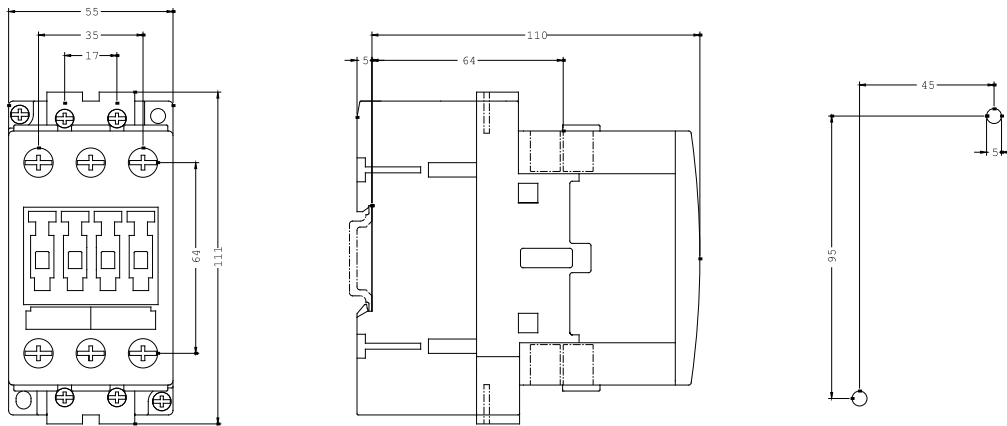
2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>), max. 2x (0.75 ... 4 mm<sup>2</sup>)

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)

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

## Certificates/approvals:





last change:

Aug 4, 2014