



CONTACTOR RELAY, 3NO+1NC, DC 24 V,  
SCREW CONNECTION, SIZE S00

General details:		
product brand name		SIRIUS
Product designation		contactor relay
Size of the contactor		S00
Protection class IP / on the front		IP20
Degree of pollution		3
Insulation voltage / with degree of pollution 3 / rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
• during transport	°C	-55 ... +80
• during storage	°C	-55 ... +80
• during operating	°C	-25 ... +60
Contact reliability		one incorrect switching operation of 100 million switching operations (17 V, 1 mA)
Resistance against shock		10g / 5 ms and 5g / 10 ms
Impulse voltage resistance / rated value	kV	6
Item designation		
• according to DIN EN 61346-2		K
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		K
• according to DIN EN 81346-2		K

<b>Mechanical operating cycles as operating time</b>		
• 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

### Control circuit:

<b>Type of voltage / of the controlled supply voltage</b>		DC
<b>Control supply voltage</b>		
• for DC / rated value	V	24
<b>operating range factor control supply voltage rated value / of the magnet coil</b>		
• for DC		0.8 ... 1.1
<b>Pull-in power / of the solenoid / for DC</b>	W	3.2
<b>Holding power / of the solenoid / for DC</b>	W	3.2

### Auxiliary circuit:

<b>Product extension / auxiliary switch</b>		Yes
<b>Identification number and letter for switching elements</b>		31 E
<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</b>		1
• delayed switching		0
• instantaneous switching		1
• asynchronous switching		0
• lagging switching		0
<b>Number of NO contacts / for auxiliary contacts</b>		3
• instantaneous switching		3
• delayed switching		0
• asynchronous switching		0
• leading switching		0
<b>Number of changeover contacts</b>		
• for auxiliary contacts		0
• of the auxiliary contacts / instantaneous switching		0
<b>Operating current</b>		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V / rated value	A	6
• at 400 V / rated value	A	3
• at 500 V / rated value	A	2
• at 690 V / rated value	A	1
<b>Operating current / with 1 current path</b>		

- at DC-12
  - at 24 V / rated value
  - at 110 V / rated value
  - at 220 V / rated value
- at DC-13
  - at 24 V / rated value
  - at 110 V / rated value
  - at 220 V / rated value

A	10
A	3
A	1
A	10
A	1
A	0.27

#### Short-circuit:

**Design of the fuse link / for short-circuit protection of the auxiliary switch / required**

fuse gL/gG: 10 A

#### Installation/mounting/dimensions:

**mounting position**

+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface

**Type of mounting**

screw and snap-on mounting

**Width**

mm 45

**Height**

mm 57.5

**Depth**

mm 72

**Distance, to be maintained, to the ranks assembly / sideways**

mm 0

#### Connections:

**Design of the electrical connection / for auxiliary and control current circuit**

screw-type terminals

**Type of the connectable conductor cross-section**

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

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

**Verification of suitability**

CSA / UL / CCC / GL / LRS / BV / DNV / RMRS / RINA

**General Product Approval**

**Functional Safety / Safety of Machinery**

**Declaration of Conformity**



[Type Examination](#)



**Test Certificates**

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

**Shipping Approval**



**Shipping Approval**

**other**



[other](#)

[Environmental Confirmations](#)

**Safety:**

**Proportion of dangerous failures**

- with high demand rate / according to SN 31920
- with low demand rate / according to SN 31920

%	75
%	40

**Protection against electrical shock**

finger-safe

**T1 value / for proof test interval or service life / according to IEC 61508**

a	20
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**B10 value / with high demand rate**

- according to SN 31920
- note

1,000,000
With 0.3 x Ie

**Further information:**

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

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

**Industry Mall (Online ordering system)**

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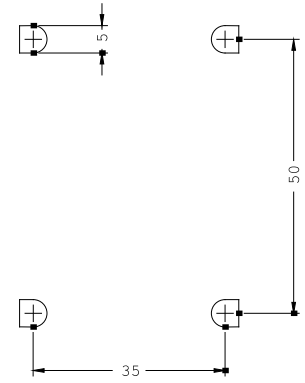
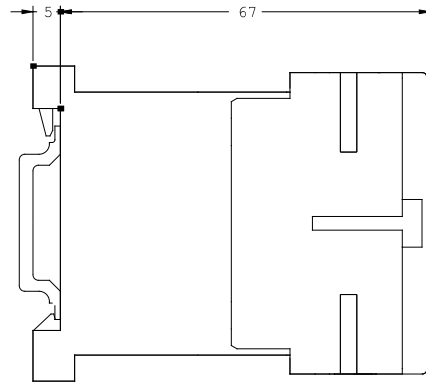
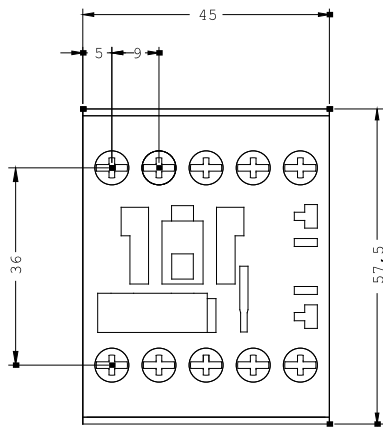
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**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RH1131-1BB40/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RH1131-1BB40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1131-1BB40)



last change:

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