

CONTACTOR RELAY, LATCHED, 4-POLE,  
2 NO + 2 NC, SIZE S00, DC 24 V



### 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
Mechanical operating cycles as operating time		

- of the contactor / typical
- of the contactor with added auxiliary switch block / typical
- of the contactor with added electronics-compatible auxiliary switch block / typical

5,000,000  
5,000,000  
5,000,000

#### Control circuit:

##### Type of voltage / of the controlled supply voltage

DC

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

- for DC

0.8 ... 1.1

##### Pull-in power / of the solenoid / for DC

W

3.2

##### Holding power / of the solenoid / for DC

W

3.2

#### Auxiliary circuit:

##### Product extension / auxiliary switch

Yes

##### Identification number and letter for switching elements

22 E

##### Contact reliability / of the auxiliary contacts

1 faulty switching per 100 million (17 V, 1 mA)

##### Number of NC contacts / for auxiliary contacts

2

- delayed switching
- instantaneous switching
- asynchronous switching
- lagging switching

0  
2  
0  
0

##### Number of NO contacts / for auxiliary contacts

2

- instantaneous switching
- delayed switching
- asynchronous switching
- leading switching

2  
0  
0  
0

##### Number of changeover contacts

- for auxiliary contacts
- of the auxiliary contacts / instantaneous switching

0  
0

##### [nicht versorgt: PMD\_ABP551\_001\_000]

- [nicht versorgt: PMD\_ABP551\_001\_000]
  - 
  - at 690 V
- [nicht versorgt: PMD\_ABP553\_001\_000]
  - [nicht versorgt: PMD\_ABP553\_001\_000]
    - 
    - 
    -
  - [nicht versorgt: PMD\_ABP558\_001\_000]
    -

A  
A

2  
1  
  
10  
3  
1  
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 90

**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 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²

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

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**



CCC



CSA



GOST



UL

[Type Examination](#)



EG-Konf.

**Test Certificates**

**Shipping Approval**

[Special Test  
Certificate](#)



ABS



GL



RINA



RMRS

**other**

[other](#)

[Environmental  
Confirmations](#)

#### Safety:

<b>Proportion of dangerous failures</b>  • with high demand rate / according to SN 31920  • with low demand rate / according to SN 31920	%	75
	%	40
<b>T1 value / for proof test interval or service life / according to IEC 61508</b>	a	20
<b>Protection against electrical shock</b>		finger-safe
<b>B10 value / with high demand rate / according to SN 31920</b>		1,000,000

#### 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

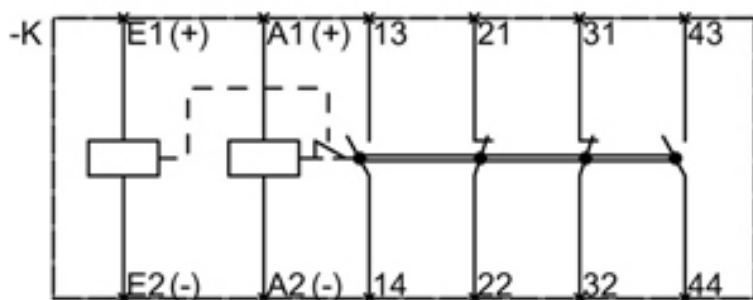
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RH1422-1BB40/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RH1422-1BB40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1422-1BB40)



last change:

Feb 26, 2013