



COUPLING CONTACTOR RELAY, 2NO+2NC,  
DC 24V, 0.7...1.25\*US,  
W/ PLUGGED-ON VARISTOR, SZ S00,  
SPRING-LOADED TERMINAL

### General technical data:

|  |    |                        |
|--|----|------------------------|
| <b>product brand name</b>  |    | SIRIUS                 |
| <b>Size of the contactor</b>   |    | S00                    |
| <b>Identification number and letter for switching elements</b>       |    | 22 E                   |
| <b>Product extension / auxiliary switch</b>                          |    | No                     |
| <b>Protection class IP / on the front</b>                            |    | IP20                   |
| <b>Protection against electrical shock</b>                           |    | finger-safe            |
| <b>Degree of pollution</b>   |    | 3                      |
| <b>Insulation voltage / with degree of pollution 3 / rated value</b> | V  | 690                    |
| <b>Installation altitude / at a height over sea level / maximum</b>  | m  | 2,000                  |
| <b>Ambient temperature</b>   |    |                        |
| • during storage   | °C | -55 ... +80            |
| • during operating   | °C | -25 ... +60            |
| <b>Shock resistance</b>  |    |                        |
| • at rectangular impulse   |    |                        |
| • at DC  |    | 10g / 5 ms, 5g / 10 ms |
| • at sine pulse  |    |                        |
| • at DC  |    | 15g / 5 ms, 8g / 10 ms |
| <b>Impulse voltage resistance / rated value</b>                      | kV | 6                      |
| <b>Mechanical operating cycles as operating time</b>                 |    |                        |

• of the contactor / typical

30,000,000

#### Control circuit/ Control:

|   |    |                       |
|---|----|-----------------------|
| <b>Design of the surge suppressor</b>   |    | with diode assemblies |
| <b>Voltage type / of control feed 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  |    | 0.7 ... 1.25          |
| <b>Holding power / of the solenoid / for DC</b>                                       | W  | 2.8                   |
| <b>Pull-in power / of the solenoid / for DC</b>                                       | W  | 2.8                   |
| <b>Closing delay</b>  |    |                       |
| • at DC   | ms | 30 ... 100            |
| <b>Opening delay</b>  |    |                       |
| • at DC   | ms | 25 ... 90             |
| <b>Arcing time</b>  | s  | 10 ... 15             |

#### 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> |   | 2   |
| <b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b> |   | 2   |
| <b>Operating current</b>  |   |   |
| • at AC-12 / maximum  | A | 10  |
| • at AC-15  |   |   |
| • at 230 V / rated value  | A | 10  |
| • at 400 V / rated value  | A | 3   |
| • at 500 V / rated value  | A | 2   |
| • at 690 V / rated value  | A | 1   |
| <b>Operating current</b>  |   |   |
| • with 1 current path / at DC-12  |   |   |
| • at 24 V / rated value   | A | 10  |
| • at 110 V / rated value  | A | 3   |
| • at 220 V / rated value  | A | 1   |
| • at 440 V / rated value  | A | 0.3   |
| • at 600 V / rated value  | A | 0.15  |
| • with 2 current paths in series / at DC-12                                     |   |   |
| • at 24 V / rated value   | A | 10  |
| • at 60 V / rated value   | A | 10  |

|   |     |        |
|---|-----|--------|
| • at 110 V / rated value                    | A   | 4      |
| • at 220 V / rated value                    | A   | 2      |
| • at 440 V / rated value                    | A   | 1.3    |
| • at 600 V / rated value                    | A   | 0.65   |
| • with 3 current paths in series / at DC-12 |     |        |
| • at 24 V / rated value                     | A   | 10     |
| • at 60 V / rated value                     | A   | 10     |
| • at 110 V / rated value                    | A   | 10     |
| • at 220 V / rated value                    | A   | 3.6    |
| • at 440 V / rated value                    | A   | 2.5    |
| • at 600 V / rated value                    | A   | 1.8    |
| <b>Operating current</b>                    |     |        |
| • with 1 current path / at DC-13            |     |        |
| • at 24 V / rated value                     | A   | 10     |
| • at 110 V / rated value                    | A   | 1      |
| • at 220 V / rated value                    | A   | 0.3    |
| • at 440 V / rated value                    | A   | 0.14   |
| • at 600 V / rated value                    | A   | 0.1    |
| • with 2 current paths in series / at DC-13 |     |        |
| • at 24 V / rated value                     | A   | 10     |
| • at 60 V / rated value                     | A   | 3.5    |
| • at 110 V / rated value                    | A   | 1.3    |
| • at 220 V / rated value                    | A   | 0.9    |
| • at 440 V / rated value                    | A   | 0.2    |
| • at 600 V / rated value                    | A   | 0.1    |
| • with 3 current paths in series / at DC-13 |     |        |
| • at 24 V / rated value                     | A   | 10     |
| • at 60 V / rated value                     | A   | 4.7    |
| • at 110 V / rated value                    | A   | 3      |
| • at 220 V / rated value                    | A   | 1.2    |
| • at 440 V / rated value                    | A   | 0.5    |
| • at 600 V / rated value                    | A   | 0.26   |
| <b>Off-load operating frequency</b>         |     |        |
| • at AC                                     | 1/h | 10,000 |
| • at DC                                     | 1/h | 10,000 |
| <b>Frequency of operation</b>               |     |        |
| • at AC-12 / maximum                        | 1/h | 1,000  |
| • at AC-14 / maximum                        | 1/h | 1,000  |
| • at AC-15 / maximum                        | 1/h | 1,000  |
| • at DC-12 / maximum                        | 1/h | 1,000  |

- at DC-13 / maximum

|     |       |
|-----|-------|
| 1/h | 1,000 |
|-----|-------|

### Short-circuit:

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

- required

fuse gL/gG: 10 A

#### Design of the miniature circuit breaker / for short-circuit protection of the auxiliary circuit / up to 230 V

C characteristic: 6 A; 0.4 kA

### 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

#### Mounting type

screw and snap-on mounting onto 35 mm standard mounting rail

#### Width

mm

45

#### Height

mm

70

#### Depth

mm

73

### Connections/ terminals:

#### Design of the electrical connection

- for auxiliary and control current circuit
- for auxiliary contacts / finely stranded / with conductor end processing
- for auxiliary contacts / finely stranded / without conductor final cutting
- for AWG conductors / for auxiliary contacts

spring-loaded terminals

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

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

2x (20 ... 12)

### Certificates/ approvals:

|                                 |  |                                  |
|---------------------------------|--|----------------------------------|
| <b>General Product Approval</b> | <b>Functional Safety / Safety of Machinery</b> | <b>Declaration of Conformity</b> |
|---------------------------------|--|----------------------------------|



[Type Examination](#)



**Test Certificates**

[Special Test Certificate](#)

**Shipping Approval**



**Shipping Approval**

other



[Environmental Confirmations](#)

**UL/CSA ratings:**

Contact rating designation / for auxiliary contacts / according to UL

A600 / Q600

**Safety related data:**

**B10 value / with high demand rate**

- according to SN 31920
- note

1,000,000  
With 0.3 x Ie

**T1 value / for proof test interval or service life**

- according to IEC 61508

a 20

**Proportion of dangerous failures**

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

% 40  
% 73

**Failure rate [FIT] / with low demand rate**

- according to SN 31920

FIT 100

**Product function / positively driven operation to IEC 60947-5-1**

Yes

**Further information:**

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

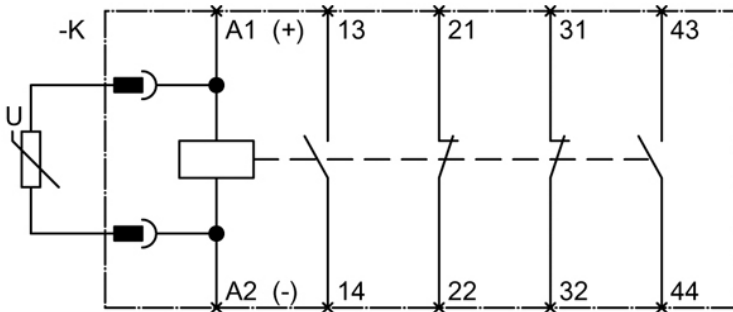
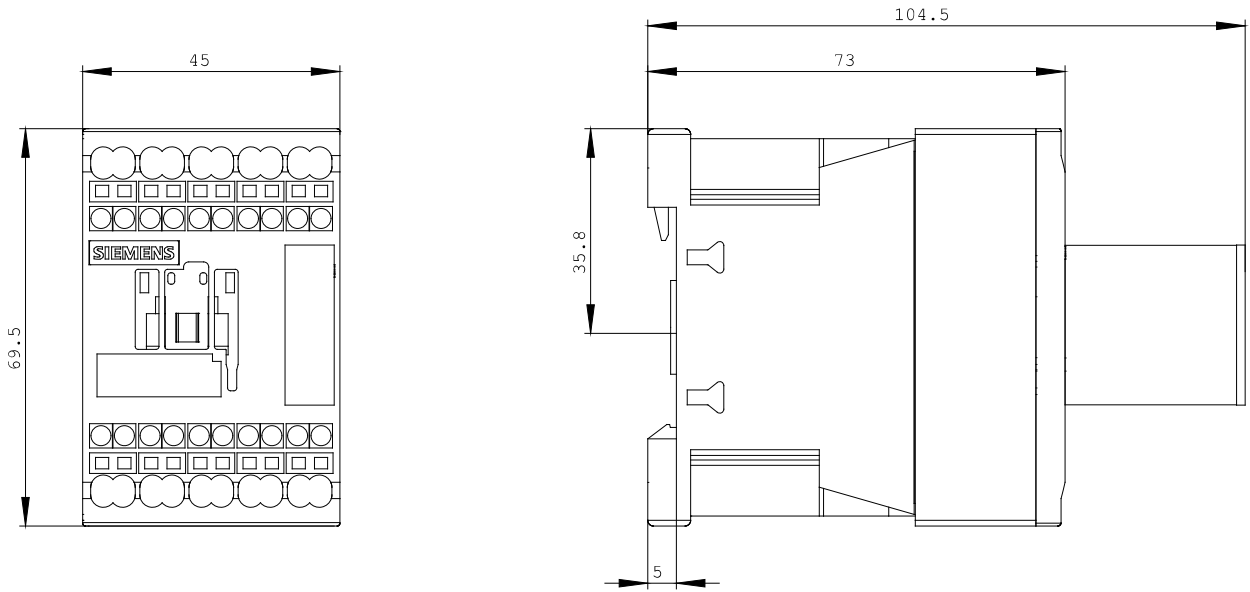
<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<http://mall.industry.siemens.com/>

**Cax online generator**

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



last change:

Aug 4, 2014