

CONTACTOR RELAY, 3NO+1NC, AC 230 V,
50 HZ, 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 |
| 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

30,000,000
10,000,000
5,000,000

Control circuit:

| | | |
|---|-----|--------------|
| Type of voltage / of the controlled supply voltage | | AC |
| Control supply voltage frequency | | |
| • 1 / rated value | Hz | 50 |
| • 2 / rated value | Hz | 60 |
| Control supply voltage / 1 | | |
| • at 50 Hz | | |
| • for AC / rated value | V | 230 |
| • at 60 Hz | | |
| • for AC / rated value | V | 230 |
| operating range factor control supply voltage rated value / of the magnet coil | | |
| • at 50 Hz | | |
| • for AC | | 0.8 ... 1.1 |
| • at 60 Hz | | |
| • for AC | | 0.85 ... 1.1 |
| Apparent pull-in power / of the solenoid / for AC | V·A | 27 |
| Apparent holding power / of the solenoid / for AC | V·A | 4.6 |
| Inductive power factor | | |
| • with the pull-in power of the coil | | 0.8 |
| • with the pull-in power of the coil | | 0.27 |

Auxiliary circuit:

| | | |
|--|--|---|
| Product extension / auxiliary switch | | Yes |
| Identification number and letter for switching elements | | 31 E |
| Contact reliability / of the auxiliary contacts | | 1 faulty switching per 100 million (17 V, 1 mA) |
| Number of NC contacts / for auxiliary contacts | | 1 |
| • delayed switching | | 0 |
| • instantaneous switching | | 1 |
| • asynchronous switching | | 0 |
| • lagging switching | | 0 |
| Number of NO contacts / for auxiliary contacts | | 3 |
| • instantaneous switching | | 3 |
| • delayed switching | | 0 |
| • asynchronous switching | | 0 |
| • leading switching | | 0 |

| | | |
|---|---|------|
| Number of changeover contacts | | |
| • for auxiliary contacts | | 0 |
| • of the auxiliary contacts / instantaneous switching | | 0 |
| Operating current / of the auxiliary contacts | | |
| • at AC-12 / maximum | A | 10 |
| • at AC-15 | | |
| • at 230 V | A | 6 |
| • at 400 V | A | 3 |
| • at 500 V | A | 2 |
| • at 690 V | A | 1 |
| • with 1 current path | | |
| • at DC-12 | | |
| • at 24 V | A | 10 |
| • at 110 V | A | 3 |
| • at 220 V | A | 1 |
| • at DC-13 | | |
| • at 24 V | A | 10 |
| • at 110 V | A | 1 |
| • at 220 V | 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 | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x 4 mm ² |
| • finely stranded | | |
| • with conductor end processing | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |

• for AWG conductors / for auxiliary contacts

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

[Special Test Certificate](#)

Shipping Approval



ABS



BUREAU VERITAS



DNV



GL



LRS



PRS

Shipping Approval

other



RINA



RMRS

[Confirmation](#)

[other](#)

Safety:

Proportion of dangerous failures

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

| | |
|---|----|
| % | 75 |
| % | 40 |

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

| | |
|---|----|
| a | 20 |
|---|----|

Protection against electrical shock

finger-safe

B10 value / with high demand rate / according to SN 31920

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

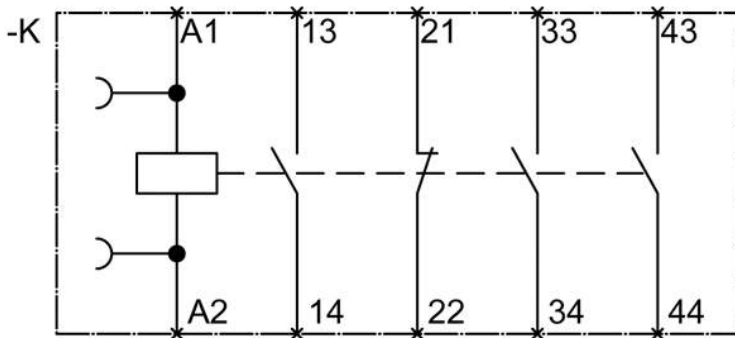
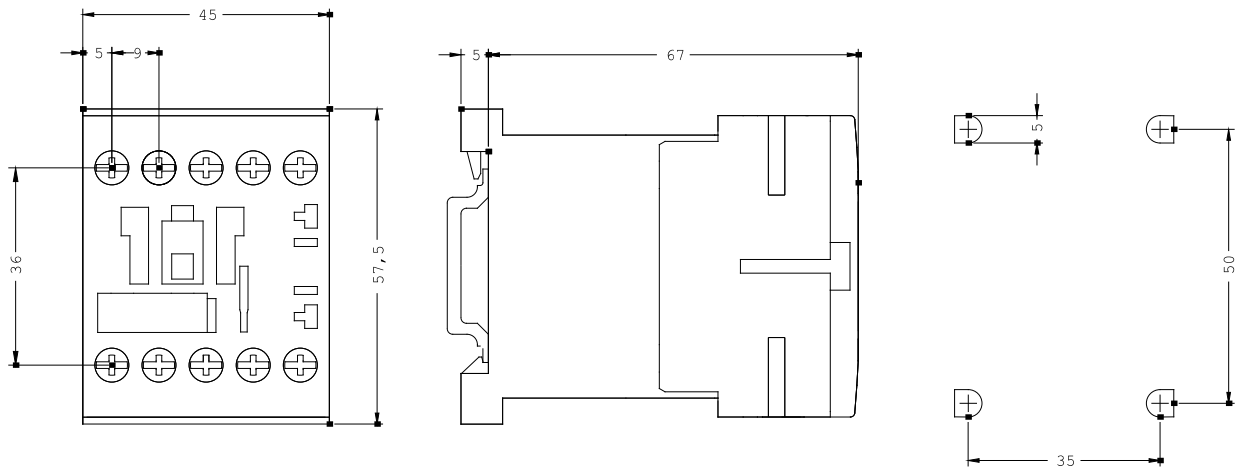
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WWW/view/en/3RH1131-1AP00/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1131-1AP00



last change:

Jul 17, 2012