

CONTACTOR RELAY LATCHED, 4NO, DC 220V,
SIZE S00, SCREW TERMINAL



| General technical data: | | |
|---|----|------------------------|
| product brand name | | SIRIUS |
| Size of the contactor | | S00 |
| Identification number and letter for switching elements | | 40 E |
| Product extension / auxiliary switch | | Yes |
| Protection class IP / on the front | | IP20 |
| Protection against electrical shock | | finger-safe |
| 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 storage | °C | -55 ... +80 |
| • during operating | °C | -25 ... +60 |
| Shock resistance | | |
| • at rectangular impulse | | |
| • at DC | | 10g / 5 ms, 5g / 10 ms |
| • at sine pulse | | |
| • at DC | | 15g / 5 ms, 8g / 10 ms |
| Impulse voltage resistance / rated value | kV | 6 |
| Mechanical operating cycles as operating time | | |

| | | |
|---|--|-----------|
| • of the contactor / typical | | 5,000,000 |
| • of the contactor with added auxiliary switch block / typical | | 5,000,000 |
| • of the contactor with added electronics-compatible auxiliary switch block / typical | | 5,000,000 |

Control circuit/ Control:

| | | |
|---|----|-------------|
| Voltage type / of control feed voltage | | DC |
| Control supply voltage | | |
| • for DC / rated value | V | 220 |
| Operating range factor control supply voltage rated value / of the magnet coil | | |
| • for DC | | 0.8 ... 1.1 |
| Holding power / of the solenoid / for DC | W | 4 |
| Pull-in power / of the solenoid / for DC | W | 4 |
| Closing delay | | |
| • at DC | ms | 30 ... 100 |
| Opening delay | | |
| • at DC | ms | 25 ... 90 |
| Arcing time | s | 10 ... 15 |

Auxiliary circuit:

| | | |
|---|---|---|
| Contact reliability / of the auxiliary contacts | | 1 faulty switching per 100 million (17 V, 1 mA) |
| Number of NO contacts / for auxiliary contacts / instantaneous switching | | 4 |
| Operating current | | |
| • 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 |
| Operating current | | |
| • 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 |
| Operating current | | |
| • 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 |
| Off-load operating frequency | | |
| • at AC | 1/h | 10,000 |
| • at DC | 1/h | 10,000 |
| Frequency of operation | | |
| • 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 90

Height

mm 57.5

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 AWG conductors / for auxiliary contacts

screw-type terminals
 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
 2x (20 ... 16), 2x (18 ... 14), 2x 12

Certificates/ approvals:

General Product Approval

Functional Safety / Safety of Machinery

Declaration of Conformity



CCC



CSA



UL

[Type Examination](#)



EG-Konf.

Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Shipping Approval



ABS



BUREAU VERITAS



DNV



GL



LRS



PRS

Shipping Approval

other



RINA



RMRS



VDE

[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 I_e

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

- comment

Yes

with 3RH29

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

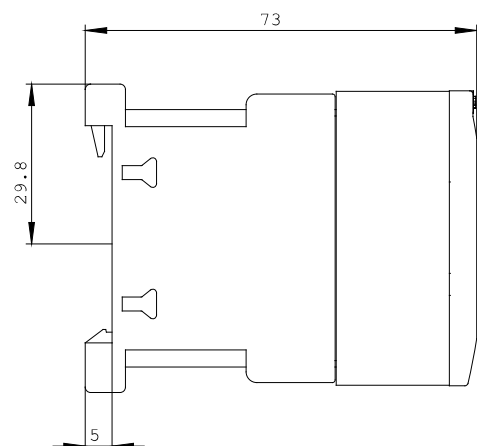
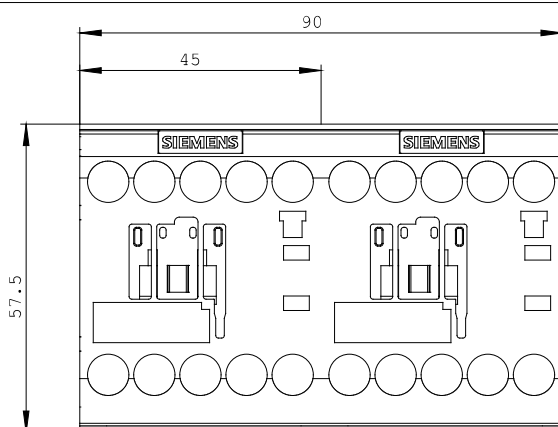
<http://www.siemens.com/cax>

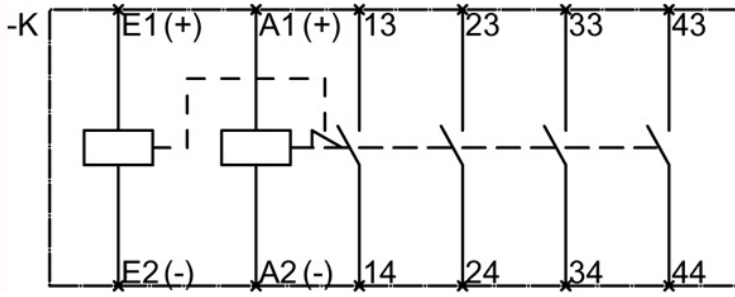
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RH2440-1BM40/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH2440-1BM40





last change:

Aug 4, 2014