



2NO+2NC CONTACTOR,
AC3: 7.5KW DC 110V 50HZ,
120V 60HZ 4-POLE, 2NO+2NC, SZ: S00,
SCREW TERMINAL

| General technical data: | | |
|--|----|----------------------------|
| product brand name | | SIRIUS |
| Size of the contactor | | S00 |
| Product extension / auxiliary switch | | Yes |
| Protection class IP / on the front | | IP20 |
| Protection against electrical shock | | finger-safe |
| Degree of pollution | | 3 |
| 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 AC | | 7,3g / 5 ms, 4,7g / 10 ms |
| • at sine pulse | | |
| • at AC | | 11,4g / 5 ms, 7,3g / 10 ms |
| Impulse voltage resistance / rated value | kV | 6 |
| Insulation voltage / rated value | V | 690 |
| Mechanical operating cycles as operating time | | |
| • of the contactor / typical | | 30,000,000 |

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

10,000,000

5,000,000

Main circuit:**Number of NC contacts / for main contacts**

2

Number of NO contacts / for main contacts

2

Operating current

- at AC-1 / at 400 V

- at 40 °C ambient temperature / rated value

A 22

- at 60 °C ambient temperature / rated value

A 20

- at AC-2 / at 400 V / rated value

A 16

- at AC-3 / at 400 V / rated value

A 9

- at AC-4 / at 400 V / rated value

A 11.5

Operating current

- with 1 current path / at DC-1

- at 24 V / rated value

A 20

- at 110 V / rated value

A 2.1

- with 2 current paths in series / at DC-1

- at 24 V / rated value

A 20

- at 110 V / rated value

A 12

- with 1 current path / at DC-3 / at DC-5

- at 24 V / rated value

A 20

- at 110 V / rated value

A 0.1

- with 2 current paths in series / at DC-3 / at DC-5

- at 24 V / rated value

A 20

- at 110 V / rated value

A 0.35

Service power

- at AC-2 / at 400 V / rated value

kW 7.5

- at AC-3 / at 400 V / rated value

kW 4

- at AC-4 / at 400 V / rated value

kW 5.5

Active power loss / per conductor / typical

W 2.2

Off-load operating frequency

- at AC

1/h 10,000

- at DC

1/h 10,000

Frequency of operation / at AC-1 / according to IEC 60947-6-2

1/h 1,000

Frequency of operation / at AC-2 / according to IEC 60947-6-2

1/h 750

Frequency of operation / at AC-3 / according to IEC 60947-6-2

1/h 750

Frequency of operation / at AC-4 / according to IEC 60947-6-2

1/h 250

Control circuit:

| | | |
|---|-----|--------------|
| Type of voltage / of the controlled supply voltage | | AC |
| Control supply voltage / 1 | | |
| • at 50 Hz / for AC / rated value | V | 110 |
| • at 60 Hz / for AC / rated value | V | 120 |
| 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 | 43 |
| Apparent holding power / of the solenoid / for AC | V·A | 6.5 |
| Inductive power factor | | |
| • with the pull-in power of the coil | | 0.8 |
| • with the pull-in power of the coil | | 0.25 |
| Closing delay | | |
| • at AC | ms | 8 ... 33 |
| Opening delay | | |
| • at AC | ms | 4 ... 15 |
| Arcing time | ms | 10 ... 15 |

Auxiliary circuit:

| | | |
|---|---|---|
| Contact reliability / of the auxiliary contacts | | 1 faulty switching per 100 million (17 V, 1 mA) |
| Number of NC contacts / for auxiliary contacts / instantaneous switching | | 0 |
| Number of NO contacts / for auxiliary contacts / instantaneous switching | | 0 |
| Operating current / of the auxiliary contacts | | |
| • at AC-12 / maximum | A | 10 |
| • at AC-15 | | |
| • at 230 V | A | 10 |
| • at 400 V | A | 3 |
| • at DC-12 | | |
| • at 48 V | A | 6 |
| • at 60 V | A | 6 |
| • at 110 V | A | 3 |
| • at 220 V | A | 1 |
| • at DC-13 | | |
| • at 24 V | A | 10 |
| • at 48 V | A | 2 |
| • at 60 V | A | 2 |
| • at 110 V | A | 1 |
| • at 220 V | A | 0.3 |

Short-circuit:**Design of the fuse link**

- for short-circuit protection of the auxiliary switch / required
- for short-circuit protection of the main circuit
 - with type of assignment 1 / required
- at type of coordination 2 / required

fuse gL/gG: 10 A

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20A

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 onto 35 mm standard mounting rail according to DIN EN 50022

Type of fixing/fixation / series installation

Yes

Width

mm 45

Height

mm 57.5

Depth

mm 73

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

mm 0

Distance, to be maintained, to earthed part / sideways

mm 6

Connections:**Design of the electrical connection**

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals

screw-type terminals

Type of the connectable conductor cross-section

- for main contacts
 - solid
 - finely stranded
 - with conductor end processing
- for AWG conductors / for main contacts
- 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 mm²2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 2x 12

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2x (20 ... 16), 2x (18 ... 14), 2x 12

Certificates/approvals:

| General Product Approval | | | | Declaration of Conformity | Test Certificates |
|---|--|---|--|---|---|
|  CCC |  CSA |  GOST |  UL |  EG-Konf. | Special Test Certificate |
| Shipping Approval | | | | | |
|  ABS |  DNV |  GL |  LRS |  PRS |  RINA |
| Shipping Approval | other | | | | |
|  RMRS | Confirmation | | | |  VDE |

| UL/CSA ratings: | | |
|---|----|-------------|
| yielded mechanical performance (hp) | | |
| <ul style="list-style-type: none"> for single-phase squirrel cage motors <ul style="list-style-type: none"> at 110/120 V / rated value at 230 V / rated value for three-phase squirrel cage motors <ul style="list-style-type: none"> at 220/230 V / rated value at 460/480 V / rated value | hp | 1 |
| | hp | 2 |
| | hp | 5 |
| | hp | 10 |
| Operating current (FLA) / for three-phase squirrel cage motors | | |
| <ul style="list-style-type: none"> at 480 V / rated value | A | 14 |
| Contact rating designation / for auxiliary contacts / according to UL | | A600 / Q600 |

| Sicherheitsrelevante Kenngrößen: | | |
|--|-----|-------------------------|
| B10 value / with high demand rate | | |
| <ul style="list-style-type: none"> according to SN 31920 | | 1,000,000 |
| T1 value / for proof test interval or service life | | |
| <ul style="list-style-type: none"> according to IEC 61508 | a | 20 |
| Proportion of dangerous failures | | |
| <ul style="list-style-type: none"> with low demand rate / according to SN 31920 with high demand rate / according to SN 31920 | % | 40 |
| | % | 73 |
| Failure rate (FIT value) / with low demand rate | | |
| <ul style="list-style-type: none"> according to SN 31920 | FIT | 100 |
| Product function | | |
| <ul style="list-style-type: none"> mirror contact to IEC 60947-4-1 <ul style="list-style-type: none"> comment positively driven operation to IEC 60947-5-1 | | Yes with 3RH29 No |

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:

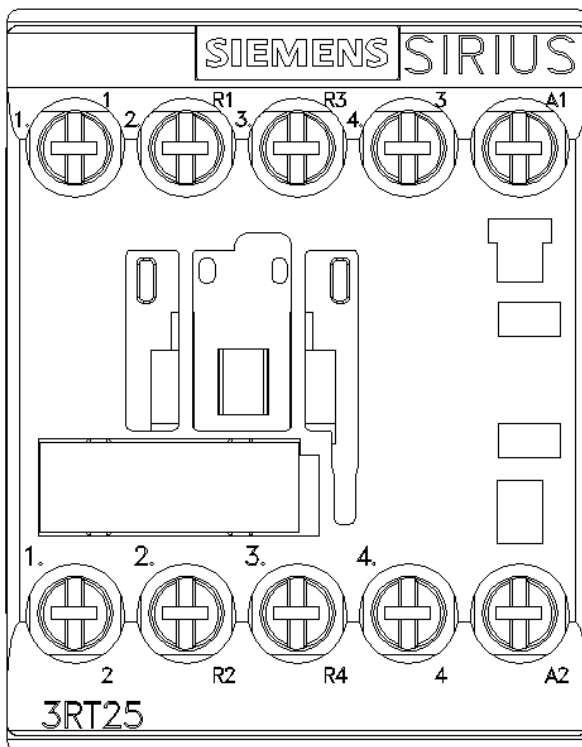
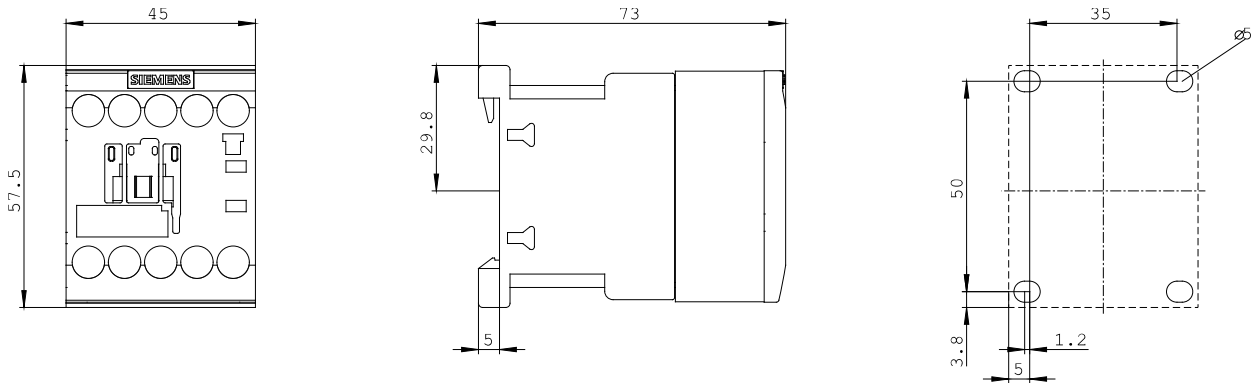
<http://www.siemens.com/cax>

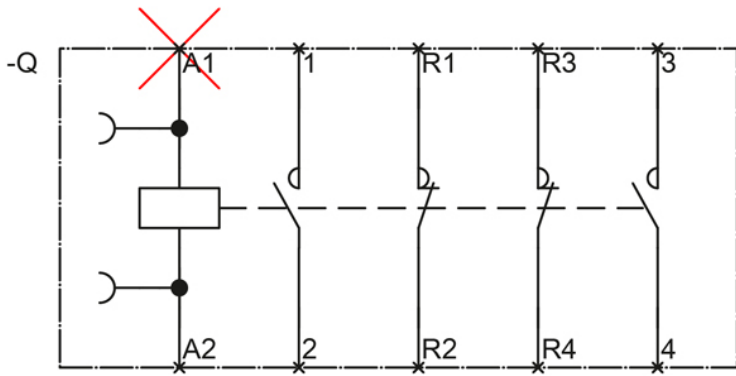
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT2518-1AK60/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2518-1AK60





last change:

Jul 26, 2012