



2NO+2NC CONTACTOR,
AC3: 5.5KW AC 230V 50HZ 4-POLE,
2NO+2NC, SZ: S00, SPRING-LOADED TERMINAL

General technical data:

| | | |
|--|----|----------------------------|
| product brand name | | SIRIUS |
| Size of the contactor | | S00 |
| Product extension | | |
| • auxiliary switch | | Yes |
| • function module for communication | | No |
| 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 |

| | | |
|---|---|------------|
| Maximum permissible voltage for protective separation / between coil and main contacts / in accordance with EN 60947-1 | V | 400 |
| Mechanical operating cycles as operating time | | |
| • of the contactor / typical | | 30,000,000 |
| • of the contactor with added auxiliary switch block / typical | | 10,000,000 |
| • of the contactor with added electronics-compatible auxiliary switch block / typical | | 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 |
| Operating current / at AC-2 / at AC-3 | | |
| • at 400 V | | |
| • per NO contact / rated value | A | 12 |
| • per NC contact / rated value | A | 9 |
| Operating current | | |
| • with 1 current path / at DC-1 | | |
| • at 24 V / rated value | A | 20 |
| • at 110 V / rated value | A | 2.1 |
| • at 220 V / rated value | A | 0.8 |
| • at 440 V / rated value | A | 0.6 |
| • with 2 current paths in series / at DC-1 | | |
| • at 24 V / rated value | A | 20 |
| • at 110 V / rated value | A | 12 |
| • at 220 V / rated value | A | 1.6 |
| • at 440 V / rated value | A | 0.8 |
| Operating current | | |
| • with 1 current path / at DC-3 / at DC-5 | | |
| • at 24 V | | |
| • per NO contact / rated value | A | 20 |
| • per NC contact / rated value | A | 20 |
| • at 110 V | | |
| • per NO contact / rated value | A | 0.15 |
| • per NC contact / rated value | A | 0.075 |
| • at 220 V | | |
| • per NO contact / rated value | A | 0.75 |
| • per NC contact / rated value | A | 0.375 |
| • with 2 current paths in series / at DC-3 / at DC-5 | | |

| | | |
|--|-----|--------------|
| <ul style="list-style-type: none"> • at 24 V <ul style="list-style-type: none"> • per NO contact / rated value • per NC contact / rated value • at 110 V <ul style="list-style-type: none"> • per NO contact / rated value • per NC contact / rated value | A | 20 |
| | A | 20 |
| | A | 0.35 |
| | A | 0.175 |
| Operating performance | | |
| <ul style="list-style-type: none"> • at AC-1 <ul style="list-style-type: none"> • at 230 V / rated value • at 400 V / rated value • at AC-2 / at AC-3 <ul style="list-style-type: none"> • at 230 V <ul style="list-style-type: none"> • per NO contact / rated value • per NC contact / rated value • at 400 V <ul style="list-style-type: none"> • per NO contact / rated value • per NC contact / rated value | kW | 7.5 |
| | kW | 13 |
| | kW | 3 |
| | kW | 2.2 |
| | kW | 5.5 |
| | kW | 4 |
| Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor | W | 1.2 |
| Off-load operating frequency | | |
| <ul style="list-style-type: none"> • at AC • at DC | 1/h | 10,000 |
| | 1/h | 10,000 |
| Frequency of operation | | |
| <ul style="list-style-type: none"> • at AC-1 / according to IEC 60947-6-2 • at AC-2 / at AC-3 / maximum | 1/h | 1,000 |
| | 1/h | 1,000 |
| Control circuit: | | |
| Type of voltage / of the controlled supply voltage | | AC |
| Control supply voltage | | |
| <ul style="list-style-type: none"> • at 50 Hz / at AC / rated value • at 60 Hz / at AC / rated value | V | 230 |
| | V | 230 |
| operating range factor control supply voltage rated value / of the magnet coil | | |
| <ul style="list-style-type: none"> • at 50 Hz / for AC • at 60 Hz / for AC | | 0.8 ... 1.1 |
| | | 0.85 ... 1.1 |
| Apparent pull-in power / of the solenoid / for AC | V·A | 37 |
| Apparent holding power / of the solenoid / for AC | V·A | 5.7 |
| Inductive power factor | | |
| <ul style="list-style-type: none"> • with the pull-in power of the coil • with the pull-in power of the coil | | 0.8 |
| | | 0.25 |
| Closing delay | | |

| | | |
|--|----|-----------|
| • at AC | ms | 8 ... 33 |
| Opening delay | | |
| • at AC | ms | 4 ... 15 |
| Arcing time | ms | 10 ... 15 |
| Residual current / of electronics / for control with signal <0> | | |
| • at 230 V / with AC / maximum permissible | A | 0.0040 |

| 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 | | |
| • at AC-12 / maximum | A | 10 |
| • at AC-15 | | |
| • at 230 V / rated value | A | 10 |
| • at 400 V / rated value | A | 3 |
| Operating current / at DC-12 | | |
| • at 48 V / rated value | A | 6 |
| • at 60 V / rated value | A | 6 |
| • at 110 V / rated value | A | 3 |
| • at 125 V / rated value | A | 2 |
| • at 220 V / rated value | A | 1 |
| • at 440 V / rated value | A | 0.3 |
| • at 600 V / rated value | A | 0.15 |
| Operating current / at DC-13 | | |
| • at 24 V / rated value | A | 10 |
| • at 48 V / rated value | A | 2 |
| • at 60 V / rated value | A | 2 |
| • at 110 V / rated value | A | 1 |
| • at 220 V / rated value | A | 0.3 |
| • at 600 V / rated value | A | 0.1 |

| UL/CSA ratings: | | |
|--|----|-------------|
| yielded mechanical performance (hp) | | |
| • for single-phase squirrel cage motors | | |
| • at 110/120 V / rated value | hp | 0.5 |
| • at 230 V / rated value | hp | 2 |
| Contact rating designation / for auxiliary contacts / according to UL | | A600 / Q600 |

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: 20 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 onto 35 mm standard
mounting rail according to DIN EN 50022

Type of fixing/fixation / series installation

Yes

Width

mm

45

Height

mm

70

Depth

mm

73

Connections:**Design of the electrical connection**

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

spring-loaded terminals

spring-loaded terminals

Type of the connectable conductor cross-section

- for main contacts
 - solid
 - finely stranded
 - with conductor end processing
 - without conductor final cutting
- for AWG conductors / for main contacts
- for auxiliary contacts
 - solid
 - finely stranded
 - with conductor end processing
 - without conductor final cutting
- for AWG conductors / for auxiliary contacts

2x (0.5 ... 4 mm²)2x (0.5 ... 2.5 mm²)2x (0.5 ... 2.5 mm²)

2x (20 ... 12)

2x (0.5 ... 4 mm²)2x (0.5 ... 2.5 mm²)2x (0.5 ... 2.5 mm²)

2x (20 ... 12)

Sicherheitsrelevante Kenngrößen:**B10 value / with high demand rate**

- according to SN 31920

1,000,000

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 value) / with low demand rate • according to SN 31920 | FIT | 100 |
| Product function • mirror contact to IEC 60947-4-1 • comment • positively driven operation to IEC 60947-5-1 | | Yes with 3RH29 No |

Certificates/approvals:

General Product Approval

Functional Safety / Safety of Machinery



CCC



CSA



GOST



UL

[Type Examination](#)

Declaration of Conformity

Test Certificates



EG-Konf.

[Special Test
Certificate](#)

Shipping Approval



ABS



BUREAU
VERITAS



DNV



GL



LRS



PRS

Shipping Approval

other



RINA



RMRS

[Confirmation](#)



VDE

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

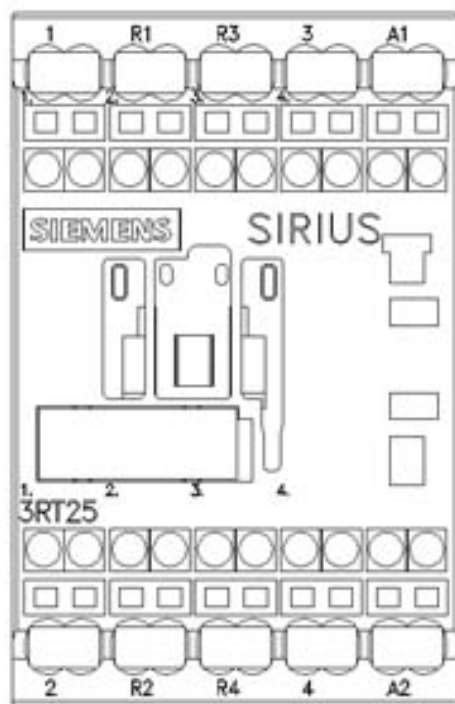
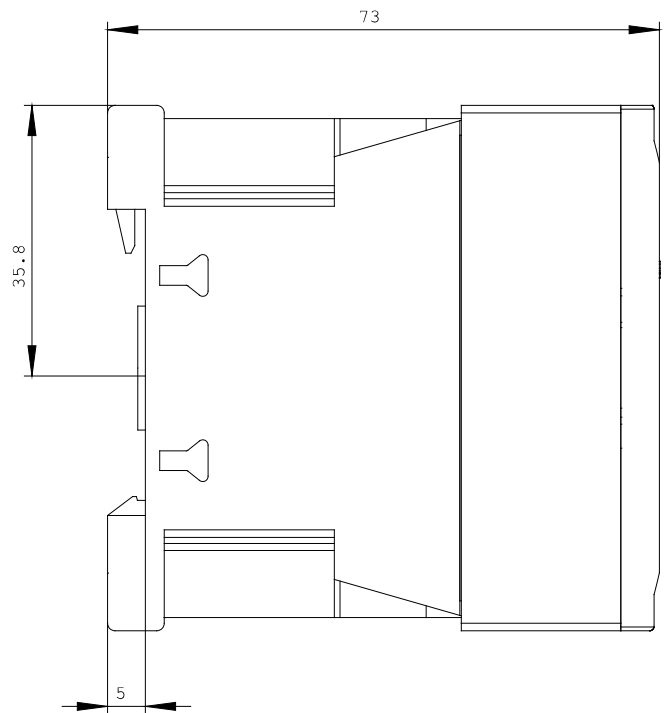
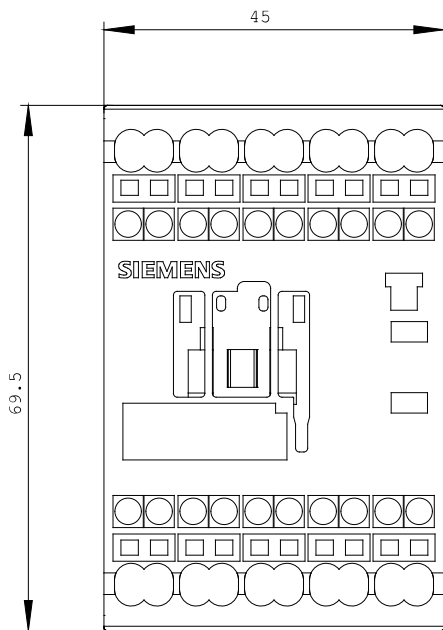
<http://www.siemens.com/cax>

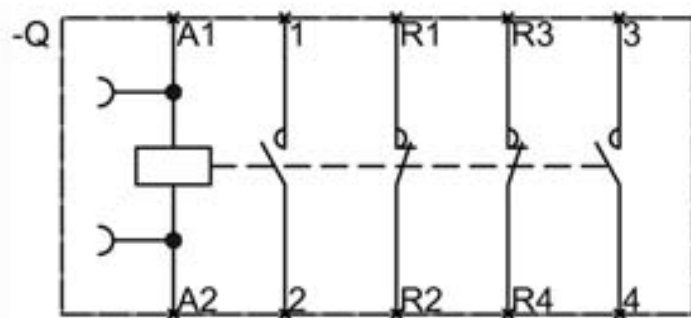
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT2517-2AP00/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2517-2AP00





last change:

Apr 15, 2013