



CONTACTOR, AC-3 4 KW/400 V, 1 NO,
AC 42 V, 50/60 HZ, 3-POLE, SIZE S00,
SCREW CONNECTION

| General details: | | |
|---|----|---------------------------------------|
| product brand name | | SIRIUS |
| product designation | | power contactor |
| Size of the contactor | | S00 |
| Protection class IP / on the front | | IP20 |
| Degree of pollution | | 3 |
| Installation altitude / at a height over sea level / maximum | m | 2,000 |
| Ambient temperature / during operating | °C | -25 ... +60 |
| Active power loss / per conductor / typical | W | 0.7 |
| Item designation | | |
| <ul style="list-style-type: none"> • according to DIN EN 61346-2 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | Q K |
| Mechanical operating cycles as operating time | | |
| <ul style="list-style-type: none"> • 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 |
| Main circuit: | | |
| Number of poles / for main current circuit | | 3 |

| | | |
|--|----|--------------|
| Number of NC contacts / for main contacts | | 0 |
| Number of NO contacts / for main contacts | | 3 |
| Operating current / at AC-1 / at 400 V / at 40 °C ambient temperature / rated value | A | 22 |
| Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value | A | 20 |
| Operating current | | |
| • at AC-3 / at 400 V / rated value | A | 9 |
| • with 1 current path | | |
| • at DC-1 | | |
| • at 24 V / rated value | A | 20 |
| • at 110 V / rated value | A | 2.1 |
| • at DC-3 / at DC-5 | | |
| • at 24 V / rated value | A | 20 |
| • at 110 V / rated value | A | 0.15 |
| • with 2 current paths in series | | |
| • at DC-1 | | |
| • at 24 V / rated value | A | 20 |
| • at 110 V / rated value | A | 12 |
| • at DC-3 / at DC-5 | | |
| • at 24 V / rated value | A | 20 |
| • at 110 V / rated value | A | 0.35 |
| • with 3 current paths in series | | |
| • at DC-1 | | |
| • at 24 V / rated value | A | 20 |
| • at 110 V / rated value | A | 20 |
| • at DC-3 / at DC-5 | | |
| • at 24 V / rated value | A | 20 |
| • at 110 V / rated value | A | 20 |
| Service power | | |
| • at AC-1 / at 400 V / rated value | kW | 13 |
| • at AC-2 / at 400 V / rated value | kW | 4 |
| • at AC-3 | | |
| • at 400 V / rated value | kW | 4 |
| • at 500 V / rated value | kW | 4.5 |
| • at 690 V / rated value | kW | 5.5 |
| Control circuit: | | |
| Design of activation | | conventional |
| 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 | 42 |
| • at 60 Hz / for AC | | |
| • rated value | V | 42 |

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 |
| • lagging switching | | 0 |
| Number of NO contacts / for auxiliary contacts | | |
| • instantaneous switching | | 1 |
| • leading 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 DC-12 | | |
| • at 60 V | A | 6 |
| • at 110 V | A | 3 |
| • at 220 V | A | 1 |
| • at DC-13 | | |
| • at 24 V | A | 10 |
| • 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 | | fuse gL/gG: 10 A |
| • for short-circuit protection of the main circuit | | |
| • with type of assignment 1 / required | | fuse gL/gG: 35 A |
| • at type of coordination 2 / required | | fuse gL/gG: 20 A |

Installation/mounting/dimensions:

| | | |
|-------------------------|--|--|
| Type of mounting | | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
|-------------------------|--|--|

| | | |
|--|----|------|
| series installation | | Yes |
| Width | mm | 45 |
| Height | mm | 57.5 |
| Depth | mm | 72 |
| Distance, to be maintained, to earthed part / sideways | mm | 6 |

Connection type:

| | | |
|---|--|--|
| Design of the electrical connection | | |
| <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit | | screw-type terminals screw-type terminals |
| Identification number and letter for switching elements | | 10 E |

Certificates/approvals:

| | |
|--|---|
| General Product Approval | Functional Safety / Safety of Machinery |
|  CQC  CSA KETI ROSTEST  UL SUVA | |

Test Certificates

[Manufacturer](#)

Shipping Approval



Shipping Approval

other



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

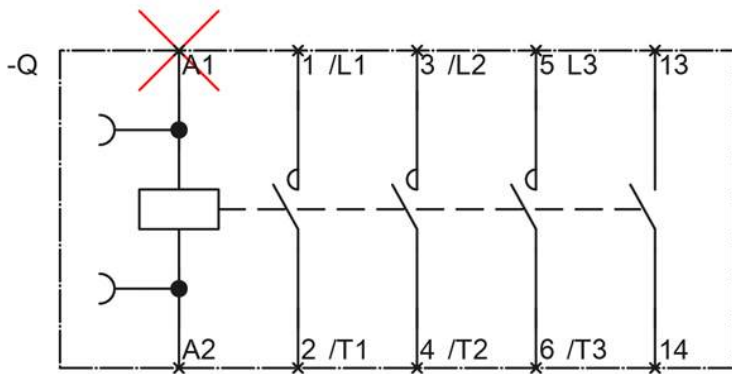
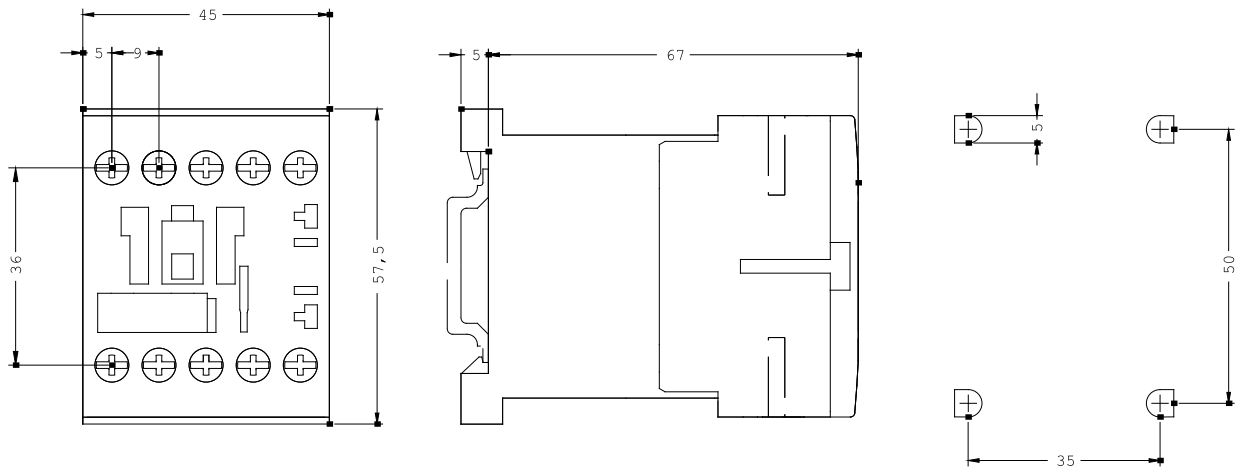
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1016-1AD01/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1016-1AD01



last change:

Feb 10, 2012