



CONTACTOR, AC-3, 11KW/400V, 2NO+2NC,
AC110V 50HZ, 3-POLE,
SZ S0 SCREW TERMINAL REMOVABLE AUX. SWITCH

General technical data:

| | | |
|--|----|---|
| Product brand name | | SIRIUS |
| Size of the contactor | | S0 |
| Product extension / auxiliary switch | | 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 |
| Ambient temperature / during operating | °C | -25 ... 60 |
| Shock resistance | | |
| <ul style="list-style-type: none"> at rectangular impulse at AC at sine pulse at AC | | 8,3g / 5 ms, 5,3g / 10 ms 13,5g / 5 ms, 8,3g / 10 ms |
| Impulse voltage resistance / rated value | kV | 6 |
| Insulation voltage / rated value | V | 690 |
| 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 | | 10,000,000 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

0

Number of NO contacts / for main contacts

3

Operating current

- at AC-1 / at 400 V
 - at 40 °C ambient temperature / rated value
 - at 60 °C ambient temperature / rated value
- at AC-2 / at 400 V / rated value
- at AC-3 / at 400 V / rated value
- at AC-4 / at 400 V / rated value

A 40
A 35
A 25
A 25
A 15.5

Operating current

- with 1 current path / at DC-1
 - at 24 V / rated value
 - at 110 V / rated value
- with 2 current paths in series / at DC-1
 - at 24 V / rated value
 - at 110 V / rated value
- with 3 current paths in series / at DC-1
 - at 24 V / rated value
 - at 110 V / rated value
- with 1 current path / at DC-3 / at DC-5
 - at 24 V / rated value
 - at 110 V / rated value
- with 2 current paths in series / at DC-3 / at DC-5
 - at 24 V / rated value
 - at 110 V / rated value
- with 3 current paths in series / at DC-3 / at DC-5
 - at 24 V / rated value
 - at 110 V / rated value

A 35
A 4.5
A 35
A 35
A 35
A 35
A 20
A 2.5
A 35
A 15
A 35
A 35

Service power

- at AC-2 / at 400 V / rated value
- at AC-3 / at 400 V / rated value
- at AC-4 / at 400 V / rated value

kW 11
kW 11
kW 7.5

Active power loss / per conductor / typical

W 1.6

Off-load operating frequency

- at AC
- at DC

1/h 5,000
1/h 1,500

| | | |
|--|-----|-------|
| Frequency of operation | | |
| • at AC-1 / according to IEC 60947-6-2 / maximum | 1/h | 1,000 |
| • at AC-2 / according to IEC 60947-6-2 / maximum | 1/h | 750 |
| • at AC-3 / according to IEC 60947-6-2 / maximum | 1/h | 750 |
| • at AC-4 / according to IEC 60947-6-2 / maximum | 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 |
| Working range factor supply voltage rated value / of the magnet coil | | |
| • at 50 Hz / for AC | | 0.8 ... 1.1 |
| Apparent pull-in power / of the solenoid / for AC | V·A | 77 |
| Apparent holding power / of the solenoid / for AC | V·A | 9.8 |
| Inductive power factor | | |
| • with the pull-in power of the coil | | 0.82 |
| • with the pull-in power of the coil | | 0.25 |
| Closing delay | | |
| • at AC | ms | 8 ... 40 |
| Opening delay | | |
| • at AC | ms | 4 ... 16 |
| Arcing time | ms | 10 ... 10 |

| | | |
|---|---|---|
| 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 | | 2 |
| Number of NO contacts / for auxiliary contacts / instantaneous switching | | 2 |
| 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 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
- at 48 V
- at 60 V
- at 110 V
- at 220 V

| | |
|---|-----|
| A | 6 |
| A | 2 |
| A | 2 |
| A | 1 |
| 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:
100 A

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

Installation/mounting/dimensions:

Built in orientation

vertical

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 85

Depth

mm 141

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
 - stranded
 - 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 (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)

2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)

2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²

2x (16 ... 12), 2x (14 ... 8)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

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

Certificates/approvals:

General Product Approval



CQC



CSA

[ROSTEST](#)



UL

Test Certificates

[Manufacturer](#)

Shipping Approval



ABS



DNV



GL



LRS



PRS



RINA

Shipping Approval

other



RMRS

[Manufacturer](#)



VDE

UL/CSA ratings:

yielded mechanical performance (hp)

- for single-phase squirrel cage motors
 - at 110/120 V / rated value
 - at 230 V / rated value
- for three-phase squirrel cage motors
 - at 200/208 V / rated value
 - at 220/230 V / rated value
 - at 460/480 V / rated value
 - at 575/600 V / rated value

| | |
|----|-----|
| hp | 2 |
| hp | 3 |
| hp | 5 |
| hp | 7.5 |
| hp | 15 |
| hp | 20 |

Operating current (FLA) / for three-phase squirrel cage motors

- at 480 V / rated value
- at 600 V / rated value

| | |
|---|----|
| A | 21 |
| A | 22 |

Contact rating designation / for auxiliary contacts / according to UL

A600 / Q600

Safety-related Parameter:

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
- positively driven operation to IEC 60947-5-1

Yes

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:

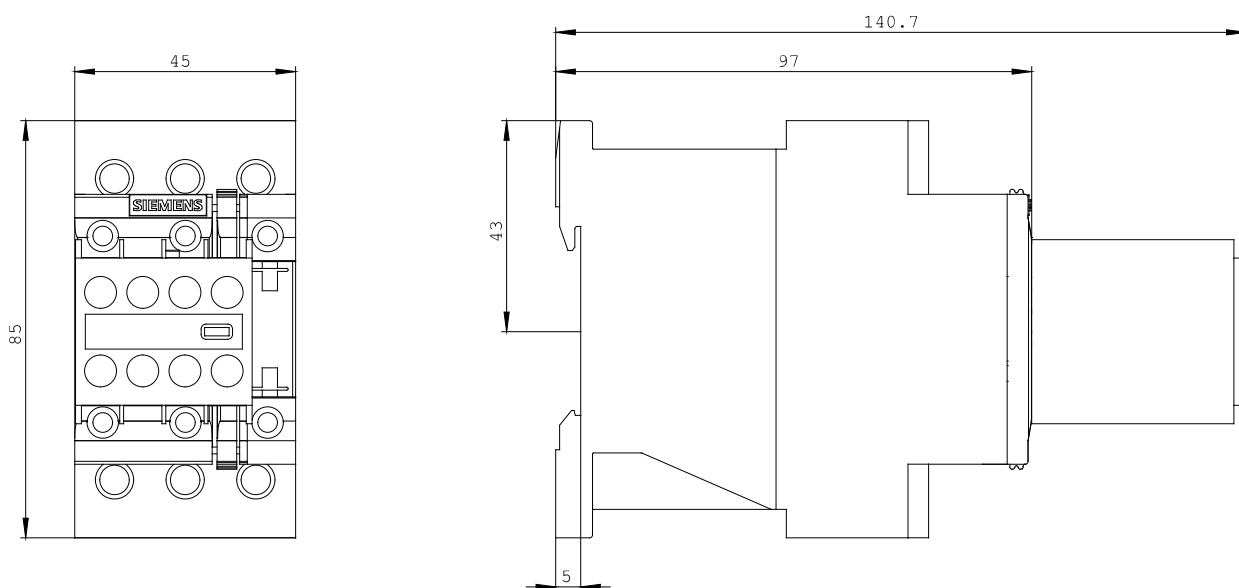
<http://www.siemens.com/cax>

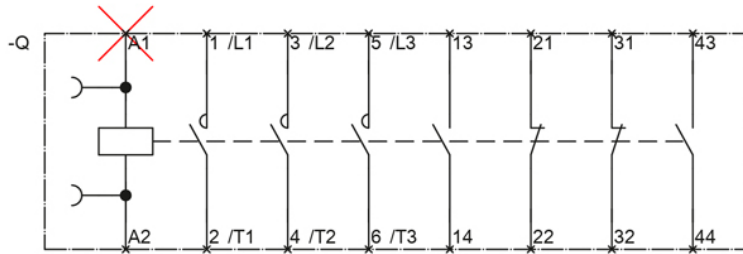
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT2026-1AF04/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2026-1AF04





last change:

Oct 17, 2011