



CONTACTOR, AC-3 4 KW/400 V, AC 110 V 50 HZ / 120 V 60 HZ 3-POLE, SIZE S0, SCREW CONNECTION

Figure similar

| | |
|---|-----------------|
| product brand name | SIRIUS |
| Product designation | power contactor |
| General technical data: | |
| Size of contactor | S0 |
| Degree of pollution | 3 |
| Mechanical service life (switching cycles) | |
| <ul style="list-style-type: none"> • of the contactor typical | 10 000 000 |
| <ul style="list-style-type: none"> • of the contactor with added electronics-compatible auxiliary switch block typical | 5 000 000 |
| <ul style="list-style-type: none"> • of the contactor with added auxiliary switch block typical | 10 000 000 |
| Protection class IP | |
| <ul style="list-style-type: none"> • on the front | IP20 |
| <ul style="list-style-type: none"> • of the terminal | IP20 |
| Equipment marking | |
| <ul style="list-style-type: none"> • acc. to DIN EN 61346-2 | Q |
| <ul style="list-style-type: none"> • acc. to DIN EN 81346-2 | Q |
| Ambient conditions: | |
| Installation altitude at height above sea level maximum | 2 000 m |
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation | -25 ... +60 °C |
| 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 | |
| <ul style="list-style-type: none"> • at AC-1 at 400 V <ul style="list-style-type: none"> — at ambient temperature 40 °C Rated value • at AC-1 up to 690 V <ul style="list-style-type: none"> — at ambient temperature 40 °C Rated value — at ambient temperature 60 °C Rated value • at AC-3 <ul style="list-style-type: none"> — at 400 V Rated value • at AC-4 at 400 V Rated value | <p>40 A</p> <p>40 A</p> <p>35 A</p> <p>9 A</p> <p>8.5 A</p> |
| Operating current | |
| <ul style="list-style-type: none"> • with 1 current path at DC-1 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value • with 2 current paths in series at DC-1 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value • with 3 current paths in series at DC-1 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value | <p>35 A</p> <p>4.5 A</p> <p>35 A</p> <p>35 A</p> <p>35 A</p> <p>35 A</p> |
| Operating current | |
| <ul style="list-style-type: none"> • with 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V Rated value — at 110 V Rated value • with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> — at 110 V Rated value — at 24 V Rated value • with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> — at 110 V Rated value — at 24 V Rated value | <p>20 A</p> <p>2.5 A</p> <p>15 A</p> <p>35 A</p> <p>35 A</p> <p>35 A</p> |
| Active power loss at AC-3 at 400 V for rated value of the operating current per conductor | 0.4 W |

| | |
|---|--|
| Control circuit/ Control: | |
| Type of voltage of the control supply voltage | AC |
| Control supply voltage with AC | |
| <ul style="list-style-type: none"> • at 50 Hz Rated value • at 60 Hz Rated value • Rated value | <p>110 V</p> <p>120 V</p> <p>50 Hz</p> |
| Control supply voltage frequency 2 Rated value | 60 Hz |
| Operating range factor control supply voltage rated value of the magnet coil with AC | |
| <ul style="list-style-type: none"> • at 50 Hz | 0.8 ... 1.1 |

| | |
|--|-------------|
| • at 60 Hz | 0.8 ... 1.1 |
| Apparent pick-up power of the magnet coil with AC | 69 V·A |
| Inductive power factor with closing power of the coil | 0.76 |
| Apparent holding power of the magnet coil with AC | 7.5 V·A |
| Inductive power factor with the holding power of the coil | 0.28 |

Auxiliary circuit:

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

Short-circuit:

| | |
|---|------------------|
| Design of the fuse link | |
| • for short-circuit protection of the main circuit | |
| — with type of assignment 1 required | fuse gL/gG: 63 A |
| — with type of assignment 2 required | fuse gL/gG: 25 A |
| • for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |

Installation/ mounting/ dimensions:

| | |
|-------------------------|--|
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| • Side-by-side mounting | Yes |
| Height | 85 mm |
| Width | 45 mm |
| Depth | 91 mm |

| | |
|---|------|
| Required spacing | |
| <ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> at the side | 6 mm |

Connections/ Terminals:

| | |
|--|---|
| Type of electrical connection | |
| <ul style="list-style-type: none"> for main current circuit for auxiliary and control current circuit | <p>screw-type terminals</p> <p>screw-type terminals</p> |
| Type of connectable conductor cross-section | |
| <ul style="list-style-type: none"> for main contacts <ul style="list-style-type: none"> solid single or multi-stranded finely stranded with core end processing for AWG conductors for main contacts | <p>2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), max. 2x 10 mm²</p> <p>2x (1 ... 2,5 mm²), 2x (2,5 ... 6 mm²), max. 2x 10 mm²</p> <p>2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)</p> <p>2x (16 ... 12), 2x (14 ... 10), 1x 8</p> |
| Type of connectable conductor cross-section | |
| <ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> solid finely stranded with core end processing for AWG conductors for auxiliary contacts | <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> <p>2x (20 ... 16), 2x (18 ... 14), 1x 12</p> |

Certificates/ approvals:

| | | | |
|---------------------------------|--|----------------------------------|--------------------------|
| General Product Approval | Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates |
|---------------------------------|--|----------------------------------|--------------------------|



[Type Examination](#)



[Type Test Certificates/Test Report](#)

| | |
|--------------------------|--------------------------|
| Test Certificates | Shipping Approval |
|--------------------------|--------------------------|

[Special Test Certificate](#)



other

[Environmental Confirmations](#)

[Confirmation](#)

[other](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

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

Cax online generator

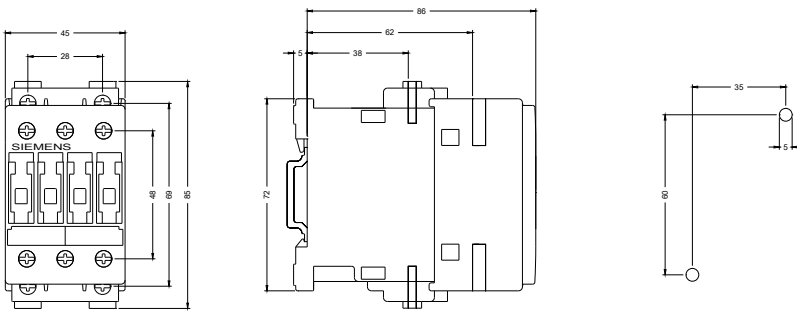
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RT10231AK60>

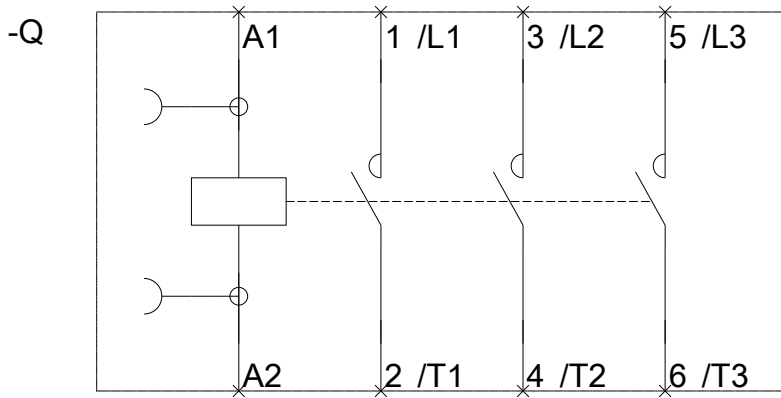
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10231AK60>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RT10231AK60&lang=en





last modified:

02.06.2015