

CONTACTOR, 75KW/400V/AC-3, AC(40...60HZ)/DC OPERATION
 UC 110...127V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6
 BAR CONNECTIONS CONVENTIONAL OPERATING MECHAN.
 SCREW TERMINAL



Figure similar

| | |
|---------------------|-----------------|
| product brand name | SIRIUS |
| Product designation | power contactor |

| General technical data: | |
|---|---------------------------|
| Size of contactor | S6 |
| Insulation voltage | |
| • rated value | 1 000 V |
| Degree of pollution | 3 |
| Surge voltage resistance rated value | 8 kV |
| maximum permissible voltage for safe isolation | |
| • between coil and main contacts acc. to EN 60947-1 | 690 V |
| Protection class IP | |
| • on the front | IP00 |
| • of the terminal | IP00 |
| Shock resistance | |
| • at rectangular impulse | |
| — at AC | 8,5g / 5 ms, 4,2g / 10 ms |
| — at DC | 8,5g / 5 ms, 4,2g / 10 ms |
| • with sine pulse | |

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|---|----------------------------|
| — at AC | 13,4g / 5 ms, 6,5g / 10 ms |
| — at DC | 13,4g / 5 ms, 6,5g / 10 ms |
| Mechanical service life (switching cycles) | |
| • of contactor typical | 10 000 000 |
| • of the contactor with added electronics-compatible auxiliary switch block typical | 5 000 000 |
| • of the contactor with added auxiliary switch block typical | 10 000 000 |
| Ambient conditions: | |
| Installation altitude at height above sea level maximum | 2 000 m |
| Ambient temperature | |
| • during operation | -25 ... +60 °C |
| • during storage | -55 ... +80 °C |
| Main circuit: | |
| Number of NO contacts for main contacts | 3 |
| Number of NC contacts for main contacts | 0 |
| Operating current | |
| • at AC-1 at 400 V | |
| — at ambient temperature 40 °C rated value | 185 A |
| • at AC-1 up to 690 V | |
| — at ambient temperature 40 °C rated value | 185 A |
| — at ambient temperature 60 °C rated value | 160 A |
| • at AC-3 | |
| — at 400 V rated value | 150 A |
| — at 690 V rated value | 150 A |
| Connectable conductor cross-section in main circuit at AC-1 | |
| • at 60 °C minimum permissible | 70 mm ² |
| • at 40 °C minimum permissible | 95 mm ² |
| Operating current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 68 A |
| • at 690 V rated value | 57 A |
| Operating current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 160 A |
| — at 110 V rated value | 18 A |
| • with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 160 A |
| — at 110 V rated value | 160 A |
| • with 3 current paths in series at DC-1 | |

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| — at 24 V rated value | 160 A |
| — at 110 V rated value | 160 A |
| Operating current | |
| • at 1 current path at DC-3 at DC-5 | |
| — at 24 V rated value | 160 A |
| — at 110 V rated value | 2.5 A |
| • with 2 current paths in series at DC-3 at DC-5 | |
| — at 110 V rated value | 160 A |
| — at 24 V rated value | 160 A |
| • with 3 current paths in series at DC-3 at DC-5 | |
| — at 110 V rated value | 160 A |
| — at 24 V rated value | 160 A |
| Operating power | |
| • at AC-1 | |
| — at 230 V at 60 °C rated value | 60 kW |
| — at 400 V rated value | 105 kW |
| — at 690 V rated value | 181 kW |
| — at 690 V at 60 °C rated value | 181 kW |
| • at AC-2 at 400 V rated value | 84 kW |
| • at AC-3 | |
| — at 230 V rated value | 50 kW |
| — at 400 V rated value | 84 kW |
| — at 500 V rated value | 105 kW |
| — at 690 V rated value | 146 kW |
| Operating power for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 38 kW |
| • at 690 V rated value | 55 kW |
| Thermal short-time current limited to 10 s | 1 300 A |
| Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor | 9 W |
| No-load switching frequency | |
| • at AC | 2 000 1/h |
| • at DC | 2 000 1/h |
| Operating frequency | |
| • at AC-1 maximum | 800 1/h |
| • at AC-2 maximum | 300 1/h |
| • at AC-3 maximum | 750 1/h |
| • at AC-4 maximum | 130 1/h |
| Control circuit/ Control: | |
| Type of voltage of the control supply voltage | AC/DC |
| Control supply voltage at AC | |

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| <ul style="list-style-type: none"> • at 50 Hz rated value • at 60 Hz rated value | 110 ... 127 V |
| Control supply voltage at DC | |
| <ul style="list-style-type: none"> • rated value • rated value | 110 ... 127 V |
| Control supply voltage frequency 2 rated value | 50 Hz |
| Operating range factor control supply voltage rated value of magnet coil at AC | 60 Hz |
| <ul style="list-style-type: none"> • at 50 Hz • at 60 Hz | 0.8 ... 1.1 |
| Operating range factor control supply voltage rated value of magnet coil at DC | 0.8 ... 1.1 |
| Design of the surge suppressor | with varistor |
| Apparent pick-up power of magnet coil at AC | 300 V·A |
| Inductive power factor with closing power of the coil | 0.9 |
| Apparent holding power of magnet coil at AC | 5.8 V·A |
| Inductive power factor with the holding power of the coil | 0.8 |
| Closing power of magnet coil at DC | 360 W |
| Holding power of magnet coil at DC | 5.2 W |
| Closing delay | |
| <ul style="list-style-type: none"> • at AC • at DC | 20 ... 95 ms |
| Opening delay | |
| <ul style="list-style-type: none"> • at AC • at DC | 20 ... 95 ms |
| <ul style="list-style-type: none"> • at AC • at DC | 40 ... 60 ms |
| Arcing time | 40 ... 60 ms |
| | 10 ... 15 ms |

Auxiliary circuit:

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|---|------|
| Number of NC contacts | |
| <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — instantaneous contact | 2 |
| Number of NO contacts | |
| <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — instantaneous contact | 2 |
| Operating current at AC-12 maximum | 10 A |
| Operating current at AC-15 | |
| <ul style="list-style-type: none"> • at 230 V rated value • at 400 V rated value | 6 A |
| | 3 A |
| Operating current at DC-12 | |
| <ul style="list-style-type: none"> • at 60 V rated value • at 110 V rated value • at 220 V rated value | 6 A |
| | 3 A |
| | 1 A |

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| Operating current at DC-13 | |
| <ul style="list-style-type: none"> • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value | <p>10 A</p> <p>2 A</p> <p>1 A</p> <p>0.3 A</p> |





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| UL/CSA ratings: | |
| Contact rating of auxiliary contacts according to UL | A600 / Q600 |





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| Short-circuit protection | |
| Design of the fuse link | |
| <ul style="list-style-type: none"> • for short-circuit protection of the main circuit <ul style="list-style-type: none"> — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required | <p>fuse gL/gG: 355 A</p> <p>fuse gL/gG: 315 A</p> <p>fuse gL/gG: 10 A</p> |

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| Installation/ mounting/ dimensions: | |
| Mounting type | screw fixing |
| <ul style="list-style-type: none"> • Side-by-side mounting | Yes |
| Height | 172 mm |
| Width | 120 mm |
| Depth | 170 mm |
| Required spacing | |
| <ul style="list-style-type: none"> • for grounded parts <ul style="list-style-type: none"> — at the side | 10 mm |

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| 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-sections | |
| <ul style="list-style-type: none"> • at AWG conductors for main contacts | 4 ... 250 kcmil |
| Type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid — finely stranded with core end processing • at 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> |

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| Certificates/approvals |
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| General Product Approval | | | Declaration of Conformity | Test Certificates | |
|--|---|---|---|---|---|
|  CSA |  UL |  |  EG-Konf. | Typprüfbescheinigung/Werkszeugnis | spezielle Prüfbescheinigungen |

| Test Certificates | Shipping Approval | | | | other |
|-------------------------|--|--|---|---|-------------------------------|
| sonstig |  ABS |  DNV |  GL |  RMRS | Bestätigungen |

| other | |
|-----------------------------------|-------------------------|
| Umweltbestätigung | sonstig |

Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT10556AF36>

Cax online generator

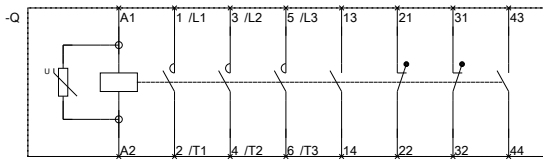
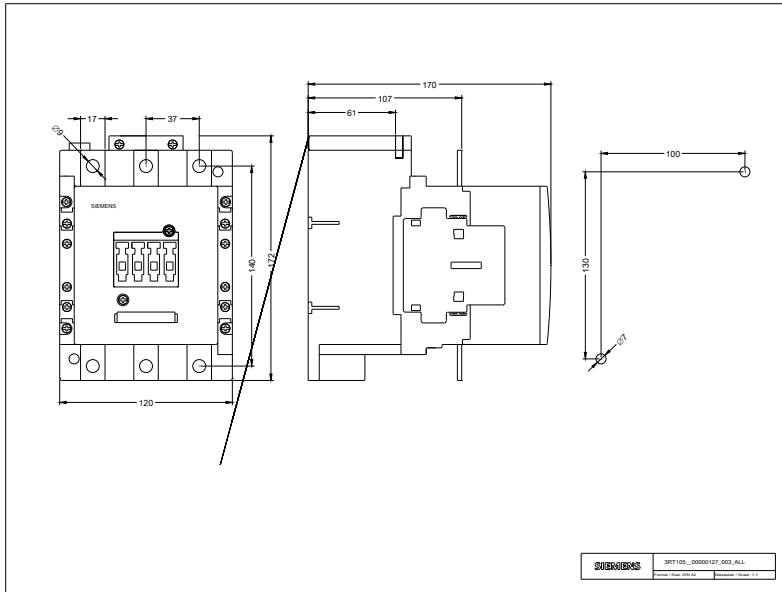
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10556AF36>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT10556AF36>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10556AF36&lang=en



last modified:

05.04.2016

3RT106--A.6.01_4_IEC.DXF
3RT107--A.6.01_4_IEC.DXF