



Capacitor contactor, AC-6b 50 kVA_r, / 400 V 2 NC, 50-60 Hz AC / 83-155 V DC 3-pole, Size S2 screw terminal

| | |
|---|--|
| product brand name | SIRIUS |
| product designation | capacitor contactors |
| product type designation | 3RT26 |
| General technical data | |
| size of contactor | S2 |
| product extension auxiliary switch | Yes |
| insulation voltage | |
| <ul style="list-style-type: none"> of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value | 690 V 690 V |
| surge voltage resistance | |
| <ul style="list-style-type: none"> of main circuit rated value of auxiliary circuit rated value | 6 kV 6 kV |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 | 400 V |
| shock resistance at rectangular impulse | |
| <ul style="list-style-type: none"> at AC at DC | 6.8g / 5 ms, 4g / 10 ms 6.8g / 5 ms, 4g / 10 ms |
| shock resistance with sine pulse | |
| <ul style="list-style-type: none"> at AC at DC | 10.6g / 5 ms, 6.2g / 10 ms 10.6g / 5 ms, 6.2g / 10 ms |
| mechanical service life (switching cycles) | |
| <ul style="list-style-type: none"> of the contactor with added auxiliary switch block typical | 3 000 000 |
| electrical endurance (switching cycles) | 200 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 05/01/2014 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| <ul style="list-style-type: none"> during operation during storage | -25 ... +60 °C -55 ... +80 °C |
| relative humidity minimum | 10 % |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % |
| Main circuit | |
| number of NO contacts for main contacts | 3 |
| number of NC contacts for main contacts | 0 |
| operational current at AC-6b at 690 V at ambient temperature 60 °C rated value | 72.2 A |

| | |
|---|------------------|
| operating reactive power at AC-6b | |
| <ul style="list-style-type: none"> at 230 V at 50/60 Hz at ambient temperature 60 °C rated value | 10 ... 29 kvar |
| <ul style="list-style-type: none"> at 400 V at 50/60 Hz at ambient temperature 60 °C rated value | 17 ... 50 kvar |
| <ul style="list-style-type: none"> at 500 V at 50/60 Hz at ambient temperature 60 °C rated value | 21 ... 63 kvar |
| <ul style="list-style-type: none"> at 690 V at 50/60 Hz at ambient temperature 60 °C rated value | 29 ... 86 kvar |
| no-load switching frequency | |
| <ul style="list-style-type: none"> at AC | 500 1/h |
| <ul style="list-style-type: none"> at DC | 500 1/h |
| operating frequency at AC-6b | |
| <ul style="list-style-type: none"> at 230 V maximum | 100 1/h |
| <ul style="list-style-type: none"> at 240 V maximum | 100 1/h |
| <ul style="list-style-type: none"> at 400 V maximum | 100 1/h |
| <ul style="list-style-type: none"> at 480 V maximum | 60 1/h |
| <ul style="list-style-type: none"> at 500 V maximum | 55 1/h |
| <ul style="list-style-type: none"> at 600 V maximum | 40 1/h |
| <ul style="list-style-type: none"> at 690 V maximum | 30 1/h |
| Control circuit/ Control | |
| type of voltage | AC/DC |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage at AC | |
| <ul style="list-style-type: none"> at 50 Hz rated value | 83 ... 155 V |
| <ul style="list-style-type: none"> at 60 Hz rated value | 83 ... 155 V |
| control supply voltage frequency | |
| <ul style="list-style-type: none"> 1 rated value | 50 Hz |
| <ul style="list-style-type: none"> 2 rated value | 60 Hz |
| control supply voltage at DC | |
| <ul style="list-style-type: none"> rated value | 83 ... 155 V |
| operating range factor control supply voltage rated value of magnet coil at DC | |
| <ul style="list-style-type: none"> initial value | 0.8 |
| <ul style="list-style-type: none"> full-scale value | 1.1 |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| <ul style="list-style-type: none"> at 50 Hz | 0.8 ... 1.1 |
| <ul style="list-style-type: none"> at 60 Hz | 0.8 ... 1.1 |
| inrush current peak | 12 A |
| duration of inrush current peak | 20 µs |
| locked-rotor current mean value | 1.3 A |
| locked-rotor current peak | 3.1 A |
| duration of locked-rotor current | 230 ms |
| holding current mean value | 22 mA |
| apparent pick-up power of magnet coil at AC | 110 VA |
| inductive power factor with closing power of the coil | 0.95 |
| apparent holding power of magnet coil at AC | 2.5 VA |
| inductive power factor with the holding power of the coil | 0.95 |
| closing power of magnet coil at DC | 70 W |
| holding power of magnet coil at DC | 1.5 W |
| closing delay | |
| <ul style="list-style-type: none"> at AC | 30 ... 100 ms |
| <ul style="list-style-type: none"> at DC | 30 ... 100 ms |
| opening delay | |
| <ul style="list-style-type: none"> at AC | 30 ... 55 ms |
| <ul style="list-style-type: none"> at DC | 30 ... 55 ms |
| arcing time | 10 ... 20 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | |

| | |
|---|--|
| number of NC contacts for auxiliary contacts | 2 |
| • attachable | 1 |
| • instantaneous contact | 2 |
| number of NO contacts for auxiliary contacts | 0 |
| • attachable | 1 |
| • instantaneous contact | 0 |
| operational current of auxiliary contacts at AC-12 maximum | 10 A |
| operational current of auxiliary contacts at AC-15 | |
| • at 230 V | 6 A |
| • at 400 V | 3 A |
| operational current of auxiliary contacts at DC-13 | |
| • at 24 V | 6 A |
| • at 60 V | 2 A |
| • at 110 V | 1 A |
| • at 125 V | 0.9 A |
| • at 220 V | 0.3 A |
| contact reliability of auxiliary contacts | 0.00000001 |
| UL/CSA ratings | |
| contact rating of auxiliary contacts according to UL | A600 / Q600 |
| Short-circuit protection | |
| design of the fuse link | |
| • for short-circuit protection of the main circuit with type of coordination 1 required | gG: 160 A (690 V, 50 kA) |
| • for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| 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 |
| fastening method | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| height | 114 mm |
| width | 65 mm |
| depth | 130 mm |
| required spacing | |
| • with side-by-side mounting at the side | 10 mm |
| • for grounded parts at the side | 10 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| • for main current circuit | screw-type terminals |
| • for auxiliary and control circuit | screw-type terminals |
| • at contactor for auxiliary contacts | Screw-type terminals |
| • of magnet coil | Screw-type terminals |
| type of connectable conductor cross-sections | |
| • for main contacts | |
| — solid | 2x (1 ... 16 mm ²) |
| — stranded | 2x (10 ... 35 mm ²), 1x (10 ... 50 mm ²) |
| — solid or stranded | 2x (1 ... 35 mm ²), 1x (1 ... 50 mm ²) |
| — finely stranded with core end processing | 2x (1 ... 25 mm ²), 1x (1 ... 35 mm ²) |
| • at AWG cables for main contacts | 2x (18 ... 2), 1x (18 ... 0) |
| type of connectable conductor cross-sections | |
| • for auxiliary contacts | |
| — solid | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x 4 mm ² |
| — solid or stranded | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x 4 mm ² |
| — finely stranded with core end processing | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| • at AWG cables for auxiliary contacts | 2x (20 ... 16), 2x (18 ... 14), 2x 12 |
| type of minimum connectable cross-section for main contacts at AC-6b | |
| • at 40 °C | 1x 35 mm ² |
| • at 60 °C | 1x 50 mm ² |
| AWG number as coded connectable conductor cross | 18 ... 0 |

| | |
|---|--|
| section for main contacts | |
| Safety related data | |
| product function | |
| <ul style="list-style-type: none"> • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 | <p>No</p> <p>No</p> |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front |
| Certificates/ approvals | |
| General Product Approval | |



[Confirmation](#)



[KC](#)



| | | | | |
|-----|---------------------------|-------------------|-------------------|-------|
| EMC | Declaration of Conformity | Test Certificates | Marine / Shipping | other |
|-----|---------------------------|-------------------|-------------------|-------|



[Type Test Certificates/Test Report](#)



[Confirmation](#)

Dangerous Good

[Transport Information](#)

Further information

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2636-1NF35>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2636-1NF35>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2636-1NF35>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2636-1NF35&lang=en

Characteristic: Tripping characteristics, I^t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2636-1NF35/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2636-1NF35&objecttype=14&gridview=view1>

last modified:

12/8/2021