SIEMENS

Data sheet

3RT1466-6AS36



power contactor AC-1 400 A / 690 V / 40 $^\circ$ C 3-pole, Uc: 500-550 V AC(50-60 Hz) / DC drive: conventional auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

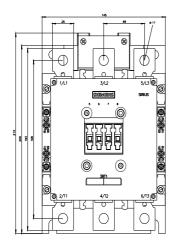
| product brand name | SIRIUS |
|---|----------------------------|
| product designation | Contactor |
| product type designation | 3RT14 |
| General technical data | |
| size of contactor | S10 |
| product extension | |
| function module for communication | No |
| auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| at AC in hot operating state | 105.6 W |
| at AC in hot operating state per pole | 35.2 W |
| without load current share typical | 7.4 W |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 1 000 V |
| of auxiliary circuit with degree of pollution 3 rated value | 500 V |
| surge voltage resistance | |
| of main circuit rated value | 8 kV |
| of auxiliary circuit rated value | 6 kV |
| 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 |
| shock resistance with sine pulse | |
| • at AC | 13,4g / 5 ms, 6,5g / 10 ms |
| ● at DC | 13,4g / 5 ms, 6,5g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 10 000 000 |
| of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 |
| of the contactor with added auxiliary switch block typical | 10 000 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 05/01/2012 |
| 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 |
| relative humidity minimum | 10 % |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % |
| Main circuit | |
| number of poles for main current circuit | 3 |

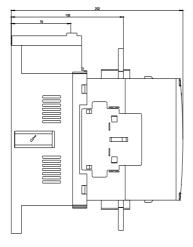
| number of NO contacts for main contacts | 3 |
|---|---------------------|
| number of NC contacts for main contacts | 0 |
| type of voltage for main current circuit | AC |
| operational current | |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 400 A |
| — up to 690 V at ambient temperature 55 °C rated value | 380 A |
| — up to 690 V at ambient temperature 60 °C rated value | 380 A |
| • at AC-3 | |
| — at 400 V rated value | 138 A |
| — at 690 V rated value | 138 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 240 mm ² |
| no-load switching frequency | |
| • at AC | 2 000 1/h |
| ● at DC | 2 000 1/h |
| operating frequency at AC-1 maximum | 600 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 | |
| • at 50 Hz rated value | 500 550 V |
| • at 60 Hz rated value | 500 550 V |
| control supply voltage at DC | |
| • rated value | 500 550 V |
| operating range factor control supply voltage rated value of magnet coil at DC | |
| initial value | 0.8 |
| • full-scale value | 1.1 |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| • at 50 Hz | 0.8 1.1 |
| • at 60 Hz | 0.8 1.1 |
| design of the surge suppressor | with varistor |
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 590 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.9 |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 6.7 VA |
| inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.9 |
| closing power of magnet coil at DC | 650 W |
| holding power of magnet coil at DC | 7.4 W |
| closing delay | |
| • at AC | 30 95 ms |
| • at DC | 30 95 ms |
| opening delay | |
| • at AC | 40 80 ms |
| • at DC | 40 80 ms |
| arcing time | 10 15 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | |
| | 2 |
| number of NC contacts for auxiliary contacts | |
| attachable instantapoous contact | 4 |
| instantaneous contact | 2 |
| number of NO contacts for auxiliary contacts | 2 |
| attachable | 4 |
| instantaneous contact | 2 |

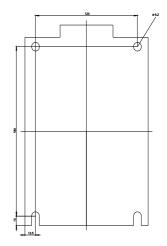
| operational current at AC-12 maximum | 10 A |
|--|--|
| operational current at AC-15 | |
| • at 230 V rated value | 6 A |
| at 400 V rated value | 3 A |
| • at 500 V rated value | 2 A |
| • at 690 V rated value | 1 A |
| operational current at DC-13 | |
| • at 24 V rated value | 10 A |
| at 48 V rated value | 2 A |
| • at 60 V rated value | 2 A |
| at 110 V rated value | 1 A |
| at 125 V rated value | 0.9 A |
| at 220 V rated value | 0.3 A |
| at 600 V rated value | 0.1 A |
| design of the miniature circuit breaker for short-circuit protection | gG: 10 A (230 V, 400 A) |
| of the auxiliary switch required | $1 \text{ faulty avitabing par 100 million (17 \/ 1 mA)}$ |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
| Short-circuit protection | No |
| product function short circuit protection | |
| design of the fuse link for short-circuit protection of the main circuit | |
| for short-circuit protection of the main circuit — with type of coordination 1 required | gG: 500 A (690 V, 100 kA) |
| — with type of assignment 2 required | gR: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA) |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | 99. 10 A (500 V, 1 KA) |
| | with vertical mounting surface 1/00° relate bla with vertical mounting surface |
| mounting position | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| fastening method | screw fixing |
| side-by-side mounting | Yes |
| height | 210 mm |
| width | 145 mm |
| depth | 202 mm |
| required spacing | |
| with side-by-side mounting | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 0 mm |
| for grounded parts | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — at the side | 10 mm |
| — downwards | 10 mm |
| for live parts | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 10 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | Connection bar |
| for auxiliary and control circuit | screw-type terminals |
| at contactor for auxiliary contacts | Screw-type terminals |
| of magnet coil | Screw-type terminals |
| width of connection bar | 25 mm |
| thickness of connection bar | 6 mm |
| diameter of holes | 11 mm 1 |
| number of holes connectable conductor cross-section for main contacts | |
| solid or stranded | 70 240 mm² |
| solid or stranded stranded | 70 240 mm ⁻ 70 240 mm ² |
| | |

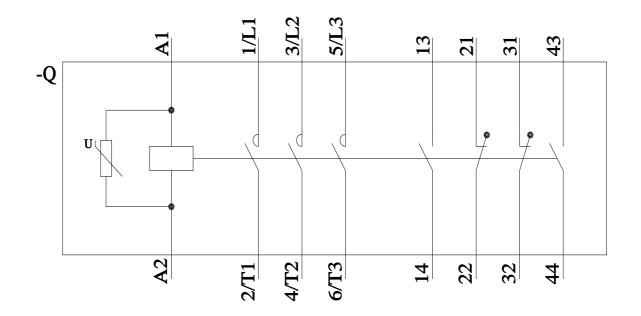
| solid or stranded | or cross-section for auxil | nary contacts | | | | |
|--|---|---|--|---|---------------------|--|
| | | 0.5 | 4 mm² | | | |
| finely stranded with core end processing | | | 0.5 2.5 mm ² | | | |
| - | | | 2.5 mm | | | |
| | onductor cross-sections | , | | | | |
| for auxiliary containing | acis | 0 | (0.5 | 0.5 | 4 | |
| — solid — solid or stranded | | | 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²) | | | |
| — solid or stranded finally stranded with core and processing | | | 2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²) | | | |
| — finely stranded with core end processing | | | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | | | |
| for AWG cables f | or auxiliary contacts | 2x (| (20 16), 2x (18 14), 1x [·] | 12 | | |
| Safety related data | | | | | | |
| product function | | | | | | |
| mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 | | | Yes No | | | |
| | | | | | | |
| touch protection on th | e front according to IEC | 60529 fing | er-safe, for vertical contact f | from the front with box te | erminal/cover | |
| Certificates/ approvals | | | | | | |
| General Product App | roval | | | | EMC | |
| | | | | | | |
| SP SA | <u>Confirmation</u> | | | EHC | RCM | |
| Functional Safety/Safety of Ma- chinery | Declaration of Conform | mity | Test Certificates | | Marine / Shipping | |
| <u>Type Examination Cer-</u> tificate | CE EG-Konf. | UK CA | Special Test Certific- ate | Type Test Certific- ates/Test Report | ABS | |
| | | | | | | |
| Marine / Shipping | | | | other | | |
| Marine / Shipping | | - | | | | |
| Marine / Shipping | | | \frown | other Confirmation | <u>Confirmation</u> | |
| Marine / Shipping | 6 | | DNV-GL | | Confirmation | |
| Marine / Shipping | PRS | KARS RARS | | | Confirmation | |
| Lloyds Register | PRS | KARS RARS | DNV-GL | | <u>Confirmation</u> | |
| Lloyds Register | PRS | KARS RANGE | DNV-GL | | <u>Confirmation</u> | |
| Lloyds Register | PRS Railway | RMRS | DNV-GL DNV-GL | | <u>Confirmation</u> | |
| Llovds Register urs | Railway Special Test Certific- ate | Vibration and Shock | DNV-GL | | Confirmation | |
| urs other | Special Test Certific- | | DNV-GL | | Confirmation | |
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| other Miscellaneous | Special Test Certific- | | ENVIRE | | Confirmation | |
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https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AS36/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1466-6AS36&objecttype=14&gridview=view1









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