SIEMENS

Data sheet 3RT2317-1BB40



contactor AC-1, 22 A, 400 V / 40 °C, 4-pole, 24 V DC, screw terminal, size: S00 $\,$

| product brand name | SIRIUS |
|---|----------------------------|
| product designation | Contactor |
| product type designation | 3RT23 |
| General technical data | |
| size of contactor | S00 |
| 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 | 6.4 W |
| at AC in hot operating state per pole | 1.6 W |
| without load current share typical | 4 W |
| type of calculation of power loss depending on pole | quadratic |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 690 V |
| of the auxiliary and control circuit with degree of pollution 3 rated value | 690 V |
| surge voltage resistance | |
| of main circuit rated value | 6 kV |
| of auxiliary circuit rated value | 6 kV |
| shock resistance at rectangular impulse | |
| • at DC | 7.3g / 5 ms, 4.7g / 10 ms |
| shock resistance with sine pulse | |
| • at DC | 11,4g / 5 ms, 7,3g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 30 000 000 |
| of the contactor with added auxiliary switch block typical | 10 000 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 10/01/2009 |
| Weight | 0.294 kg |
| 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 % |
| Environmental footprint | |
| Environmental Product Declaration(EPD) | Yes |
| Global Warming Potential [CO2 eq] total | 184 kg |

| | 4551 |
|---|--|
| Global Warming Potential [CO2 eq] during manufacturing | 1.55 kg |
| Global Warming Potential [CO2 eq] during operation | 183 kg |
| Global Warming Potential [CO2 eq] after end of life | -0.249 kg |
| Main circuit | |
| number of poles for main current circuit | 4 |
| number of NO contacts for main contacts | 4 |
| operational current | 22.4 |
| at AC-1 at 400 V at ambient temperature 40 °C rated value | 22 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated | 22 A |
| value | |
| up to 690 V at ambient temperature 60 °C rated value | 20 A |
| • at AC-3 | |
| — at 400 V rated value | 12 A |
| at AC-4 at 400 V rated value | 8.5 A |
| minimum cross-section in main circuit at maximum AC-1 rated | 4 mm ² |
| value | |
| operating power | |
| • at AC-3 at 400 V rated value | 5.5 kW |
| at AC-4 at 400 V rated value | 4 kW |
| no-load switching frequency | |
| • at DC | 10 000 1/h |
| operating frequency at AC-1 maximum | 1 000 1/h |
| Control circuit/ Control | |
| type of voltage | DC |
| type of voltage of the control supply voltage | DC |
| control supply voltage at DC rated value | 24 V |
| operating range factor control supply voltage rated value of magnet coil at DC | |
| • initial value | 0.8 |
| full-scale value | 1.1 |
| closing power of magnet coil at DC | 4 W |
| holding power of magnet coil at DC | 4 W |
| closing delay | |
| • at DC | 30 100 ms |
| opening delay | |
| • at DC | 7 13 ms |
| arcing time | 10 15 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | |
| attachable | 2 |
| number of NO contacts for auxiliary contacts | |
| attachable | 2 |
| Short-circuit protection | |
| product function short circuit protection | No |
| design of the fuse link | |
| for short-circuit protection of the main circuit | |
| — with type of coordination 1 required | gG: 35 A (690 V, 100 kA) |
| — with type of assignment 2 required | gG: 20 A (690 V, 100 kA) |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (690 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 |
| factoning method cide by cide mounting | backward by +/- 22.5° on vertical mounting surface Yes |
| fastening method side-by-side mounting fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height | 58 mm |
| width | 45 mm |
| depth | 73 mm |
| required spacing | |
| | |

| with side-by-side mounting | | |
|--|--|--|
| — forwards | 10 mm | |
| — upwards | 10 mm | |
| — downwards | 10 mm | |
| — at the side | 0 mm | |
| for grounded parts | | |
| — forwards | 10 mm | |
| — upwards | 10 mm | |
| — at the side | 6 mm | |
| — downwards | 10 mm | |
| • for live parts | | |
| — forwards | 10 mm | |
| — upwards | 10 mm | |
| — downwards | 10 mm | |
| — at the side | 6 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 Screw-type terminals | |
| type of connectable conductor cross-sections for main contacts | Screw-type terminals | |
| solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² | |
| solid solid or stranded | 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² | |
| | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | |
| finely stranded with core end processing connectable conductor cross-section for main contacts | 28 (0.5 1.5 11111), 28 (0.75 2.5 11111) | |
| solid | 0.5 4 mm² | |
| solid solid or stranded | 0.5 4 mm ² | |
| | 0.5 4 mm² | |
| stranded finally stranded with core and processing. | 0.5 4 mm² | |
| • finely stranded with core end processing | 0.5 2.5 mm | |
| connectable conductor cross-section for auxiliary contacts • solid or stranded | 0.5 4 mm² | |
| | | |
| • finely stranded with core end processing | 0.5 2.5 mm² | |
| type of connectable conductor cross-sections | | |
| • for auxiliary contacts | 0 (0.5 | |
| — solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² | |
| — finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14), 2x 12 | |
| AWG number as coded connectable conductor cross section | | |
| for main contacts | 20 12 | |
| for auxiliary contacts | 20 12 | |
| Safety related data | | |
| product function | | |
| mirror contact according to IEC 60947-4-1 | Yes; with 3RH29 | |
| positively driven operation according to IEC 60947-5-1 | No | |
| Electrical Safety | | |
| 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 | |
| Communication/ Protocol | go. sale, for vortical contact from the front | |
| product function bus communication | No | |
| Approvals Certificates | | |
| General Product Approval | | |
| General Product Approval | | |
| | | |







Confirmation





EMV Test Certificates Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other









<u>Miscellaneous</u>

Confirmation

Railway

Dangerous goods

Environment

Special Test Certificate

<u>Transport Information</u>



Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2317-1BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2317-1BB40

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-1BB40}$

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

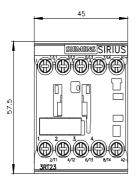
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2317-1BB40&lang=en

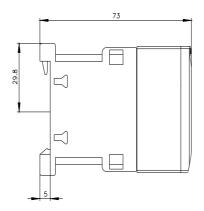
Characteristic: Tripping characteristics, I²t, Let-through current

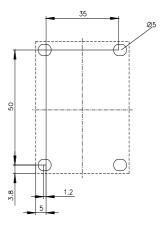
https://support.industry.siemens.com/cs/ww/en/ps/3RT2317-1BB40/char

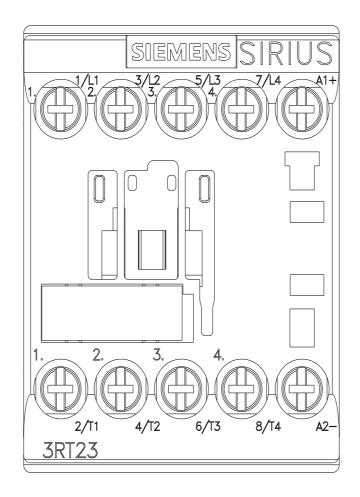
Further characteristics (e.g. electrical endurance, switching frequency)

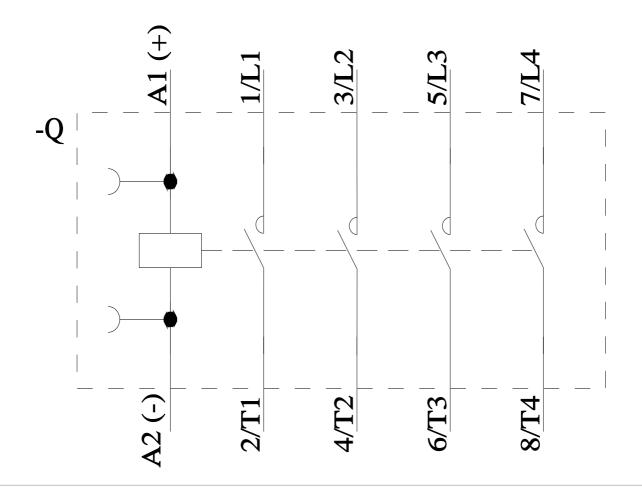
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2317-1BB40&objecttype=14&gridview=view1











last modified: 6/5/2024 🖸