SIEMENS

Data sheet

3RT2325-1AB00



contactor AC-1, 35 A, 400 V / 40 $^\circ\text{C},$ 4-pole, 24 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal

| 2.10 8/14 | |
|---|----------------------------|
| product brand name | SIRIUS |
| product designation | Contactor |
| product type designation | 3RT23 |
| General technical data | |
| size of contactor | S0 |
| 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 | 7.6 W |
| at AC in hot operating state per pole | 1.9 W |
| 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 AC | 7,5g / 5 ms, 4,7g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 11,8g / 5 ms, 7,4g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 10 000 000 |
| 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 |
| 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 | 4 |
| number of NO contacts for main contacts | 4 |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated value | 35 A |
| | |

| ● at AC-1 | | | |
|--|--|--|--|
| — up to 690 V at ambient temperature 40 °C | 35 A | | |
| rated value | | | |
| — up to 690 V at ambient temperature 60 °C rated value | 30 A | | |
| • at AC-3 | | | |
| — at 400 V rated value | 15.5 A | | |
| at AC-4 at 400 V rated value | 15.5 A | | |
| minimum cross-section in main circuit at maximum AC-1 rated value | 10 mm ² | | |
| operating power | | | |
| at AC-3 at 400 V rated value | 7.5 kW | | |
| at AC-4 at 400 V rated value | 7.5 kW | | |
| short-time withstand current in cold operating state up to 40 °C | | | |
| limited to 1 s switching at zero current maximum | Use minimum cross-section acc. to AC-1 rated value | | |
| limited to 5 s switching at zero current maximum | Use minimum cross-section acc. to AC-1 rated value | | |
| limited to 10 s switching at zero current maximum | Use minimum cross-section acc. to AC-1 rated value | | |
| limited to 30 s switching at zero current maximum | Use minimum cross-section acc. to AC-1 rated value | | |
| limited to 60 s switching at zero current maximum | Use minimum cross-section acc. to AC-1 rated value | | |
| no-load switching frequency | 5 000 Alls | | |
| • at AC | 5 000 1/h | | |
| operating frequency at AC-1 maximum | 1 000 1/h | | |
| Control circuit/ Control | | | |
| type of voltage | AC | | |
| type of voltage of the control supply voltage | AC | | |
| control supply voltage at AC | 041/ | | |
| at 50 Hz rated value | 24 V | | |
| operating range factor control supply voltage rated value of magnet coil at AC | 0.0 4.4 | | |
| • at 50 Hz | 0.8 1.1 | | |
| apparent pick-up power of magnet coil at AC • at 50 Hz | 77 VA | | |
| inductive power factor with closing power of the coil | | | |
| • at 50 Hz | 0.82 | | |
| apparent holding power of magnet coil at AC | 0.02 | | |
| • at 50 Hz | 9.8 VA | | |
| inductive power factor with the holding power of the | | | |
| coil | | | |
| • at 50 Hz | 0.25 | | |
| closing delay | | | |
| ● at AC | 8 40 ms | | |
| opening delay | | | |
| • at AC | 4 16 ms | | |
| arcing time | 10 10 ms | | |
| control version of the switch operating mechanism | Standard A1 - A2 | | |
| Auxiliary circuit | | | |
| number of NC contacts for auxiliary contacts | 1 | | |
| attachable | 2 | | |
| instantaneous contact | 1 | | |
| number of NO contacts for auxiliary contacts | 1 | | |
| attachable instantaneous contact | 2 | | |
| instantaneous contact | 10 A | | |
| operational current at AC-12 maximum operational current at AC-15 | | | |
| at 230 V rated value | 10 A | | |
| at 200 V rated value | 3 A | | |
| at 500 V rated value | 2 A | | |
| at 690 V rated value | 1 A | | |
| operational current at DC-12 | | | |
| at 24 V rated value | 10 A | | |
| • at 48 V rated value | 6 A | | |
| • at 60 V rated value | 6 A | | |
| • at 110 V rated value | 3 A | | |
| at 125 V rated value | 2 A | | |
| | | | |

| at 220 V rated value | 1A | | | |
|--|--|--|--|--|
| at 600 V rated value | 0.15 A | | | |
| operational current at DC-13 | 0.1077 | | | |
| at 24 V rated value | 10 A | | | |
| at 48 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 | gG: 10 A (230 V, 400 A) | | | |
| protection of the auxiliary switch required | | | | |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) | | | |
| UL/CSA ratings | | | | |
| contact rating of auxiliary contacts according to UL | A600 / Q600 | | | |
| Short-circuit protection | | | | |
| product function short circuit protection | No | | | |
| design of the fuse link | | | | |
| for short-circuit protection of the main circuit with two of coordination 1 required | aC: 62 A (600 V 100 KA) | | | |
| — with type of coordination 1 required — with type of assignment 2 required | gG: 63 A (690 V, 100 kA) gG: 20 A (690 V, 100 kA) | | | |
| with type of assignment 2 required for short-circuit protection of the auxiliary switch | gG: 20 A (690 V, 100 KA) gG: 10 A (690 V, 1 kA) | | | |
| for short-circuit protection of the auxiliary switch required | 90. 10 A (030 V, 1 KA) | | | |
| Installation/ mounting/ dimensions | | | | |
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted | | | |
| factoring method | forward and backward by +/- 22.5° on vertical mounting surface | | | |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 | | | |
| side-by-side mounting | Yes | | | |
| height | 85 mm | | | |
| width | 60 mm | | | |
| depth | 97 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 for auxiliant and control circuit | screw-type terminals | | | |
| for auxiliary and control circuit at contactor for auxiliary contacts | screw-type terminals | | | |
| at contactor for auxiliary contacts | Screw-type terminals | | | |
| of magnet coil type of connectable conductor cross-sections for main | Screw-type terminals | | | |
| contacts | | | | |
| • solid | 2x (1 2.5 mm²), 2x (2.5 10 mm²) | | | |
| solid or stranded | 2x (1 2.5 mm²), 2x (2.5 10 mm²) | | | |
| finely stranded with core end processing | 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² | | | |
| connectable conductor cross-section for main | | | | |
| contacts • solid | 1 10 mm² | | | |
| solid solid or stranded | 1 10 mm ² | | | |
| solid of stranded stranded | 1 10 mm ² | | | |
| stranded finely stranded with core end processing | 1 10 mm ² | | | |
| | | | | |

| contacts • solid or stranded • finely stranded type of connectable • for auxiliary con — solid — solid — solid or str — finely stran • at AWG cables | with core end processing conductor cross-section ntacts | ns | 0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 1.5 mm ²), 2x (2x (0.5 1.5 mm ²), 2x (2x (0.5 1.5 mm ²), 2x (2x (20 16), 2x (18 1 | | | |
|---|--|--------------------------|---|--|---------------------|--|
| for main contact | | | 16 8 | | | |
| for auxiliary cor | ntacts | | 20 14 | | | |
| Safety related data | | | | | | |
| mirror contact a | product function mirror contact according to IEC 60947-4-1 T1 value for proof test interval or service life according to | | Yes 20 a | | | |
| | on the front according to | IEC | IP20 | | | |
| • | the front according to I | EC 60529 | finger-safe, for vertical contact from the front | | | |
| Communication/ Prot product function bu | | - | No | _ | | |
| Certificates/ approval | | | NO | | | |
| General Product Ap | | | | | EMC | |
| Functional | CCC | <u>Confirmation</u> | | EHC | RCM | |
| Functional Safety/Safety of Machinery | Declaration of Confor | mity | Test Certificates | 3 | Marine / Shipping | |
| <u>Type Examination</u> <u>Certificate</u> | UK CA | CE EG-Konf. | Type Test Certific ates/Test Repor | <u>c- Special Test Certific-</u> t <u>ate</u> | ABS | |
| Marine / Shipping | | | | | other | |
| BUREAU VERITAS | | Lloyds Register us | RINA | KMRS RMRS | <u>Confirmation</u> | |
| other | Railway | | | | | |
| | <u>Vibration and Shock</u> | | | | | |
| 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=3RT2325-1AB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-1AB00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AB00

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

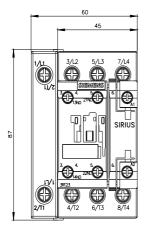
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2325-1AB00&lang=en

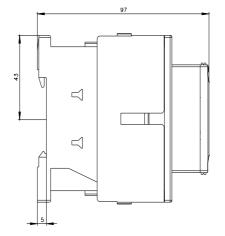
Characteristic: Tripping characteristics, I²t, Let-through current

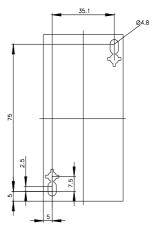
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AB00/char

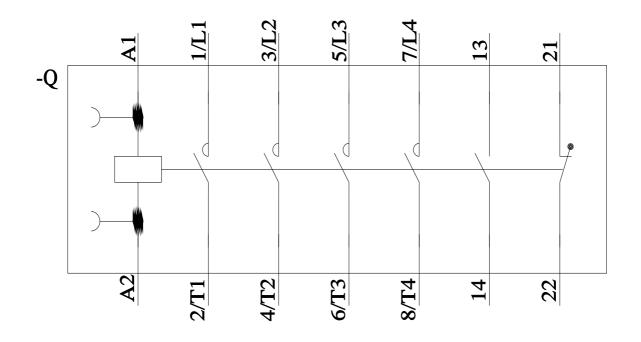
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-1AB00&objecttype=14&gridview=view1









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