SIEMENS

Data sheet

3RA2316-8XB30-2AB0



Reversing contactor assembly AC-3,4 kW/400 V,AC24 V,50/60 Hz 3-pole, Size S00 Spring-type terminal electrical and mechanical interlock

| product brand name | SIRIUS |
|--|---------------------------------------|
| product brand name | |
| product designation | Reversing contactor assembly 3RA23 |
| product type designation | |
| manufacturer's article number | 2072046 24022 |
| • 1 of the supplied contactor | <u>3RT2016-2AB02</u> |
| • 2 of the supplied contactor | <u>3RT2016-2AB02</u> |
| of the supplied RH assembly kit | <u>3RA2913-2AA2</u> |
| General technical data | |
| size of contactor | S00 |
| product extension auxiliary switch | Yes |
| shock resistance at rectangular impulse | |
| • at AC | 6,7g / 5 ms, 4,2g / 10 ms |
| • at DC | 6,7g / 5 ms, 4,2g / 10 ms |
| shock resistance with sine pulse | |
| ● at AC | 10,5g / 5 ms, 6,6g / 10 ms |
| ● at DC | 10,5g / 5 ms, 6,6g / 10 ms |
| mechanical service life (switching 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 |
| 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 |
| operating voltage at AC-3 rated value maximum | 690 V |
| operational current at AC-3 | |
| at 400 V rated value | 9 A |
| • at 500 V rated value | 7.7 A |
| • at 690 V rated value | 6.7 A |
| operating power | |
| • at AC-3 | |
| — at 400 V rated value | 4 kW |
| | |

| | 4 1447 |
|---|--|
| - at 500 V rated value | 4 kW |
| — at 690 V rated value | 5.5 kW |
| at AC-4 at 400 V rated value | 4 kW |
| operating frequency at AC-3 maximum | 750 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage 1 at AC | |
| • at 50 Hz rated value | 24 V |
| at 60 Hz rated value | 24 V |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| • at 50 Hz | 0.8 1.1 |
| • at 60 Hz | 0.85 1.1 |
| apparent pick-up power of magnet coil at AC at 50 Hz | 27 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.8 |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 4.2 VA |
| inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.25 |
| Auxiliary circuit | |
| contact reliability of auxiliary contacts | < 1 error per 100 million operating cycles |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| • at 480 V rated value | 7.6 A |
| at 600 V rated value | 9 A |
| yielded mechanical performance [hp] for 3-phase AC | |
| motor | |
| at 200/208 V rated value | 2 hp |
| at 220/230 V rated value | 3 hp |
| at 460/480 V rated value | 5 hp |
| • at 575/600 V rated value | 7.5 hp |
| 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 NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A |
| — with type of assignment 2 required | gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A |
| for short-circuit protection of the auxiliary switch | fuse gG: 10 A |
| required | |
| 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 |
| height | 84 mm |
| width | 90 mm |
| depth | 83 mm |
| required spacing | |
| with side-by-side mounting | 0 |
| — forwards | 6 mm |
| — backwards | 0 mm |
| — upwards | 6 mm |
| — downwards | 6 mm |
| — at the side | 6 mm |
| for grounded parts | |
| — forwards | 6 mm |
| — backwards | 0 mm |
| — upwards | 6 mm |
| — at the side | 6 mm |

| — downwards | 6 mm |
|--|--|
| • for live parts | |
| — forwards | 6 mm |
| — backwards | 0 mm |
| — upwards | 6 mm |
| — downwards | 6 mm |
| — at the side | 6 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | spring-loaded terminals |
| for auxiliary and control circuit | spring-loaded terminals |
| at contactor for auxiliary contacts | Spring-type terminals |
| of magnet coil | Spring-type terminals |
| type of connectable conductor cross-sections | |
| for main contacts | |
| — solid | 2x (0.5 4 mm²) |
| — solid or stranded | 2x (0,5 4 mm ²) |
| - finely stranded with core end processing | 2x (0.5 2.5 mm ²) |
| — finely stranded without core end processing | 2x (0.5 2.5 mm ²) |
| at AWG cables for main contacts | 1x (20 12) |
| type of connectable conductor cross-sections | TX (20 12) |
| for auxiliary contacts | |
| - solid or stranded | $2 \times (0.5 - 2.5 \text{ mm}^2)$ |
| | 2x (0.5 2.5 mm ²) |
| finely stranded with core end processing | 2x (0.5 1.5 mm ²) |
| finely stranded without core end processing | 2x (0.5 1.5 mm ²) |
| at AWG cables for auxiliary contacts | 2x (20 14) |
| Safety related data | |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| proportion of dangerous failures | |
| with low demand rate according to SN 31920 | 40 % |
| with high demand rate according to SN 31920 | 75 % |
| failure rate [FIT] with low demand rate according to SN | 100 FIT |
| 31920 | |
| T1 value for proof test interval or service life according to IEC 61508 | 20 у |
| 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 | |
| product function bus communication | Yes |
| protocol is supported AS-Interface protocol | No |
| | No |
| product function control circuit interface with IO link | NU |
| Certificates/ approvals | |
| | |
| General Product Approval | Declaration of Conformity |
| General Product Approval | |
| General Product Approval | |
| | |
| | |
| | Declaration of Conformity |
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| | |
| | |
| Confirmation CSA | |
| Confirmation Confirmation Openation Test Certificates Marine / Ship Special Test Certific- Type Test Certific- | |
| Confirmation Confirmation UL Test Certificates | |
| Confirmation Confirmation | EFFE CEG-Konf. UKS |
| Confirmation Confirmation Openation Test Certificates Marine / Ship Special Test Certific- Type Test Certific- | |
| Confirmation Confirmation | EFFE CEG-Konf. UKS |
| Confirmation Confirmation | EFFE CEG-Konf. UKS |
| Confirmation Confirmation | EFFE CEG-Konf. UKS |
| Confirmation Confirmation | EFFE EG-Konf. UKS |
| Confirmation Confirmation | EFFE EG-Konf. UKS |

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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=3RA2316-8XB30-2AB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2316-8XB30-2AB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-2AB0

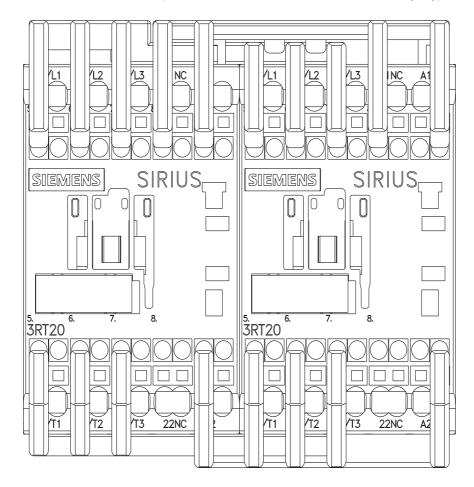
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2316-8XB30-2AB0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-2AB0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2316-8XB30-2AB0&objecttype=14&gridview=view1



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