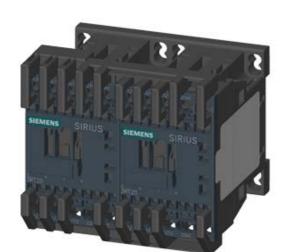
SIEMENS

Data sheet

3RA2316-8XB30-2AH0



REV. COMB., AC3, 4KW/400V AC48V, 50/60HZ, 3-POLE, SZ S00 SPRING-LOADED TERMINAL ELECTR. AND MECH. INTERLOCK

| product brand name | SIRIUS |
|---|------------------------------------|
| Product designation | reversing contactor assembly 3RA23 |
| Manufacturer article number | |
| 1 of the supplied contactor | 3RT2016-2AH02 |
| 2 of the supplied contactor | 3RT2016-2AH02 |
| of the supplied RH assembly kit | 3RA2913-2AA2 |

| General technical data: | | |
|--|----|------------------------------|
| Insulation voltage | | |
| with degree of pollution 3 Rated value | V | 690 |
| Degree of pollution | | 3 |
| Shock resistance | | 9.8g / 5 ms and 5.9g / 10 ms |
| Surge voltage resistance Rated value | kV | 6 |
| Mechanical service life (switching cycles) | | |
| of the contactor typical | | 10 000 000 |
| of the contactor with added auxiliary switch | | 10 000 000 |
| block typical | | |
| Protection class IP | | |
| • on the front | | IP20 |
| Equipment marking | | |
| • acc. to DIN EN 81346-2 | | Q |

| Main circuit: | |
|--|---|
| Number of poles for main current circuit | 3 |
| Number of NC contacts for main contacts | 0 |
| Number of NO contacts for main contacts | 3 |
| Operating voltage | |

| at AC-3 Rated value maximum | V | 690 |
|--|-----|------|
| Operating current | | |
| • at AC-1 | | |
| — at 400 V at ambient temperature 40 °C Rated value | Α | 18 |
| — at 400 V at ambient temperature 60 °C Rated value | Α | 16 |
| ● at AC-2 at 400 V Rated value | Α | 7 |
| • at AC-3 | | |
| — at 400 V Rated value | Α | 9 |
| • at AC-4 at 400 V Rated value | Α | 8.5 |
| Operating current with 1 current path | | |
| • at DC-1 | | |
| — at 24 V Rated value | Α | 20 |
| — at 110 V Rated value | Α | 2.1 |
| • at DC-3 at DC-5 | | |
| — at 24 V Rated value | Α | 20 |
| — at 110 V Rated value | Α | 0.15 |
| Operating current with 2 current paths in series | | |
| • at DC-1 | | |
| — at 24 V Rated value | Α | 20 |
| — at 110 V Rated value | Α | 12 |
| • at DC-3 at DC-5 | | |
| — at 110 V Rated value | Α | 0.35 |
| — at 24 V Rated value | Α | 20 |
| Operating current with 3 current paths in series | | |
| • at DC-1 | | |
| — at 24 V Rated value | Α | 20 |
| — at 110 V Rated value | Α | 20 |
| • at DC-3 at DC-5 | | |
| — at 110 V Rated value | Α | 20 |
| — at 24 V Rated value | Α | 20 |
| Operating power | | |
| • at AC-2 at 400 V Rated value | kW | 4 |
| ● at AC-4 at 400 V Rated value | kW | 4 |
| Operating power | | |
| • at AC-3 | | |
| — at 400 V Rated value | kW | 4 |
| — at 500 V Rated value | kW | 4.5 |
| — at 690 V Rated value | kW | 5.5 |
| Operating frequency | | |
| • at AC-3 maximum | 1/h | 750 |
| | | |

| No-load switching frequency | 1/h | 1 500 |
|--|--------|--|
| Control circuit/ Control: | | |
| Type of voltage of the control supply voltage | | AC |
| Control supply voltage 1 with AC | | |
| ● at 50 Hz Rated value | V | 48 |
| ● at 60 Hz Rated value | V | 48 |
| Operating range factor control supply voltage rated | | |
| value of the magnet coil with AC | | 0.0 4.4 |
| • at 50 Hz | | 0.8 1.1 |
| • at 60 Hz | | 0.85 1.1 |
| Auxiliary circuit: | | |
| Number of NC contacts | | |
| • for auxiliary contacts | | |
| per direction of rotation | | 0 |
| instantaneous contact | | 0 |
| — lagging switching | | 0 |
| Number of NO contacts | | |
| • for auxiliary contacts | | |
| per direction of rotation | | 0 |
| instantaneous contact | | 0 |
| — leading contact | | 0 |
| Product expansion Auxiliary switch | | Yes |
| Operating current of the auxiliary contacts at AC-12 maximum | Α | 10 |
| Operating current of the auxiliary contacts at AC-15 | | |
| • at 230 V | Α | 6 |
| | A | 3 |
| • at 400 V Operating current of the auxiliary contacts at DC-13 | . A | 3 |
| • at 24 V | Α | 10 |
| • at 24 V | A | 2 |
| • at 100 V | A | 1 |
| • at 110 V | A | 0.3 |
| Contact reliability of the auxiliary contacts | | < 1 error per 100 million operating cycles |
| | | r arror par real minutes applicating of area |
| UL/CSA ratings: | | |
| Full-load current (FLA) for three-phase AC motor | ^ | 7.6 |
| at 480 V Rated value | A | 7.6 |
| at 600 V Rated value | _ A | 9 |
| yielded mechanical performance [hp] | metric | 0.33 |
| for single-phase AC motor at 110/120 V Rated value | hp | 0.00 |
| Taldo | - 1 | |

| for single-phase AC motor at 230 V Rated value | metric hp | 1 |
|---|--------------|-------------|
| for three-phase AC motor at 200/208 V Rated value | metric hp | 2 |
| for three-phase AC motor at 220/230 V Rated value | metric hp | 3 |
| for three-phase AC motor at 460/480 V Rated value | metric hp | 5 |
| • for three-phase AC motor at 575/600 V Rated value | metric hp | 7.5 |
| Contact rating of the auxiliary contacts acc. to UL | | A600 / Q600 |

| Short-circuit: | |
|---|--|
| Design of the fuse link | |
| • for short-circuit protection of the main circuit | |
| — with type of assignment 1 required | gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A |
| — with type of assignment 2 required | gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A |
| • for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |

| 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 |
| Mounting type | | screw and snap-on mounting onto 35 mm standard mounting rail |
| Height | mm | 84 |
| Width | mm | 90 |
| Depth | mm | 83 |
| Required spacing | | |
| with side-by-side mounting | | |
| — forwards | mm | 6 |
| — Backwards | mm | 0 |
| — upwards | mm | 6 |
| — downwards | mm | 6 |
| — at the side | mm | 6 |
| • for grounded parts | | |
| — forwards | mm | 6 |
| — Backwards | mm | 0 |
| — upwards | mm | 6 |
| — at the side | mm | 6 |
| — downwards | mm | 6 |
| • for live parts | | |
| | | |

| mm | 6 |
|----|----------------|
| mm | 0 |
| mm | 6 |
| mm | 6 |
| mm | 6 |
| | mm mm mm |

| Connections/ Terminals: | | |
|---|-----|-------------------------|
| Type of electrical connection | | |
| • for main current circuit | | spring-loaded terminals |
| for auxiliary and control current circuit | | spring-loaded terminals |
| Type of connectable conductor cross-section | | |
| • for main contacts | | |
| — single or multi-stranded | | 2x (0,5 4 mm²) |
| finely stranded with core end processing | | 2x (0.5 2.5 mm²) |
| finely stranded without core end processing | | 2x (0.5 2.5 mm²) |
| for AWG conductors for main contacts | | 1x (20 12) |
| for auxiliary contacts | | |
| single or multi-stranded | | 2x (0,5 2,5 mm²) |
| finely stranded with core end processing | | 2x (0.5 1.5 mm²) |
| finely stranded without core end processing | | 2x (0.5 1.5 mm²) |
| for AWG conductors for auxiliary contacts | | 2x (20 14) |
| Apparent pick-up power of the magnet coil with AC | | |
| ● at 50 Hz | V·A | 27 |

| Safety related data: | | |
|--|-----|-------------|
| B10 value with high demand rate acc. to SN 31920 | | 1 000 000 |
| Proportion of dangerous failures | | |
| with low demand rate acc. to SN 31920 | % | 40 |
| with high demand rate acc. to SN 31920 | % | 75 |
| Failure rate [FIT] with low demand rate acc. to SN 31920 | FIT | 100 |
| T1 value for proof test interval or service life acc. to IEC 61508 | У | 20 |
| Protection against electrical shock | | finger-safe |

| Mechanical data: | |
|---|-----|
| Size of contactor | S00 |
| Communication/ Protocol: | |
| Product function Bus communication | No |
| Protocol is supported | |
| AS-interface protocol | No |
| Product function Control circuit interface with IO link | No |

| Ambient conditions: | | | | | | |
|---|----|-----------------|--|--|--|--|
| Installation altitude at height above sea level | m | 2 000 | | | | |
| maximum | | | | | | |
| Ambient temperature | | | | | | |
| during operation | °C | -25 +60 | | | | |
| during storage | °C | -55 + 80 | | | | |

Certificates/ approvals:

| General Product Approval | | | Declaration of Conformity | Test Certificates | |
|--------------------------|--|--|---------------------------|-------------------|-----------|
| | | | | Special Test | Type Test |









Certificate

Certificates/Test Report

Shipping Approval













Shipping Approval

other





Environmental Confirmations other

Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

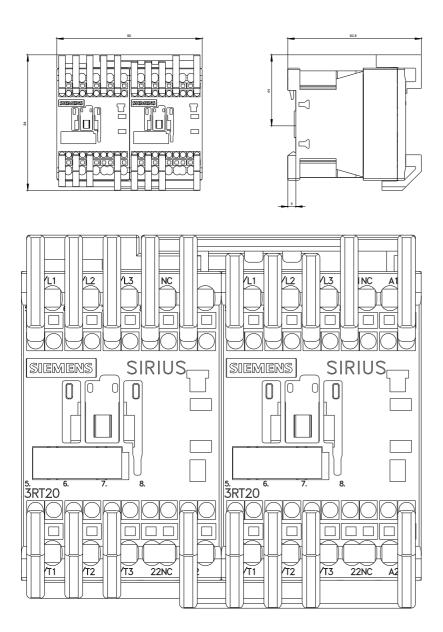
http://www.siemens.com/industrymall

Cax online generator

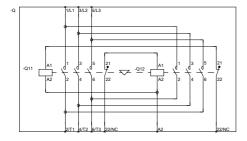
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA23168XB302AH0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA23168XB302AH0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA23168XB302AH0&lang=en



WENDEKOMBINATION BGR. S00



REVERSING COMB. SZ S00

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