SIEMENS

Data sheet

3RA2323-8XB30-1BB4

Reversing contactor assembly, AC-3, 4 kW 400 V, 24 V DC 3-pole, Size S0 screw terminal electrical and mechanical interlock 2 NO integrated



| product brand name | SIRIUS |
|---|------------------------------|
| Product designation | Reversing contactor assembly |
| Product type designation | 3RA23 |
| Manufacturer's article number | |
| 1 of the supplied contactor | 3RT2023-1AK60 |
| 2 of the supplied contactor | 3RT2023-1AK60 |
| of the supplied RH assembly kit | 3RA2923-2AA1 |

| General technical data | |
|--|---------------------------|
| Size of contactor | S0 |
| Product extension | |
| Auxiliary switch | Yes |
| Insulation voltage with degree of pollution 3 at | 690 V |
| AC rated value | |
| Surge voltage resistance rated value | 6 kV |
| protection class IP on the front | IP20 |
| Shock resistance at rectangular impulse | |
| • at AC | 7,5g / 5 ms, 4,7g / 10 ms |
| • at DC | 10g / 5 ms, 7,5g / 10 ms |
| Shock resistance with sine pulse | |

| • at AC | 11,8g / 5 ms, 7,4g / 10 ms |
|--|----------------------------|
| • at DC | 15g / 5 ms, 10g / 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 acc. to DIN EN 81346-2 | Q |

| 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 |
| Operating current | |
| • at AC-3 | |
| — at 400 V rated value | 9 A |
| Operating current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 4.5 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 35 A |
| Operating current | |
| at 1 current path at DC-3 at DC-5 | |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 2.5 A |
| • with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 35 A |
| — at 110 V rated value | 15 A |
| • with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 35 A |
| | |

| at 440 M mata di valva | 25 A |
|---|--|
| — at 110 V rated value | 35 A |
| Operating power | |
| • at AC-3 | |
| — at 400 V rated value | 4 kW |
| — at 500 V rated value | 7.5 kW |
| — at 690 V rated value | 7.5 kW |
| • at AC-4 at 400 V rated value | 4 kW |
| No-load switching frequency | 1 500 1/h |
| Operating frequency at AC-3 maximum | 1 000 1/h |
| Control circuit/ Control | |
| Type of voltage of the control supply voltage | DC |
| Control supply voltage 1 | |
| • at DC rated value | 24 V |
| Auxiliary circuit | |
| Number of NO contacts for auxiliary contacts | |
| per direction of rotation | 1 |
| • instantaneous contact | 2 |
| Operating current of auxiliary contacts at AC-12 maximum | 10 A |
| Operating current of auxiliary contacts at AC-15 at 230 V | 6 A |
| operating current of auxiliary contacts at AC-15 at 400 V | 3 A |
| operating current of auxiliary contacts at DC-13 at 24 V | 10 A |
| Operating current of auxiliary contacts at DC-13 at 60 V | 2 A |
| Operating current of auxiliary contacts at DC-13 at 110 V | 1 A |
| Operating current of auxiliary contacts at DC-13 at 220 V | 0.3 A |
| contact reliability of auxiliary contacts | < 1 error per 100 million operating cycles |
| UL/CSA ratings | |
| Full-load current (FLA) for three-phase AC motor | |
| • at 480 V rated value | 7.6 A |
| • at 600 V rated value | 9 A |
| Yielded mechanical performance [hp] | |
| • for single-phase AC motor | |
| — at 110/120 V rated value | 1 hp |
| — at 230 V rated value | 2 hp |
| • for three-phase AC motor | |
| — at 220/230 V rated value | 3 hp |

— at 460/480 V rated value
 — at 575/600 V rated value
 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

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 63 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A

fuse gG: 10 A

| 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 | 101 mm |
| Width | 90 mm |
| Depth | 97 mm |
| Required spacing | |
| with side-by-side mounting | |
| — 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 |
| — at the side | V IIIIII |

• Type of electrical connection for main current circuit

screw-type terminals

| Type of electrical connection for auxiliary and control current circuit | screw-type terminals |
|---|---|
| Type of connectable conductor cross-sections | |
| • for main contacts | |
| — solid | 2x (1 2.5 mm²), 2x (2.5 10 mm²) |
| single or multi-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 |
| at AWG conductors for main contacts | 2x (16 12), 2x (14 8) |
| Type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| single or multi-stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| at AWG conductors for auxiliary contacts | 2x (20 16), 2x (18 14) |
| Cofety valeted date | |

| 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 | 100 FIT |
| T1 value for proof test interval or service life acc. to IEC 61508 | 20 y |

| Communication/ Protocol | |
|---|-----|
| product function bus communication | Yes |
| Protocol is supported | |
| AS-Interface protocol | No |
| Product function Control circuit interface with IO link | No |

Certificates/ approvals

General Product Approval

Declaration of Conformity

Test Certificates









Miscellaneous

Special Test Certificate

Marine / Shipping













other Railway

Vibration and Shock Confirmation

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=3RA2323-8XB30-1BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2323-8XB30-1BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2323-8XB30-1BB4

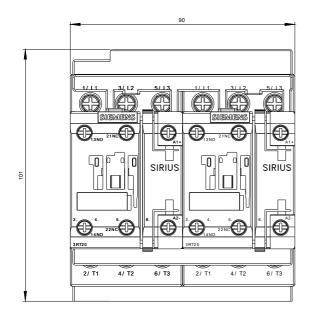
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

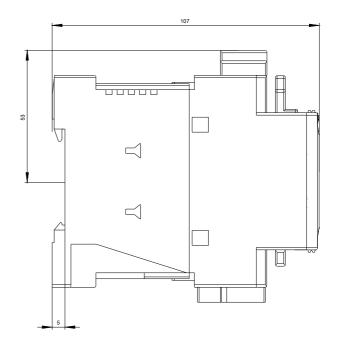
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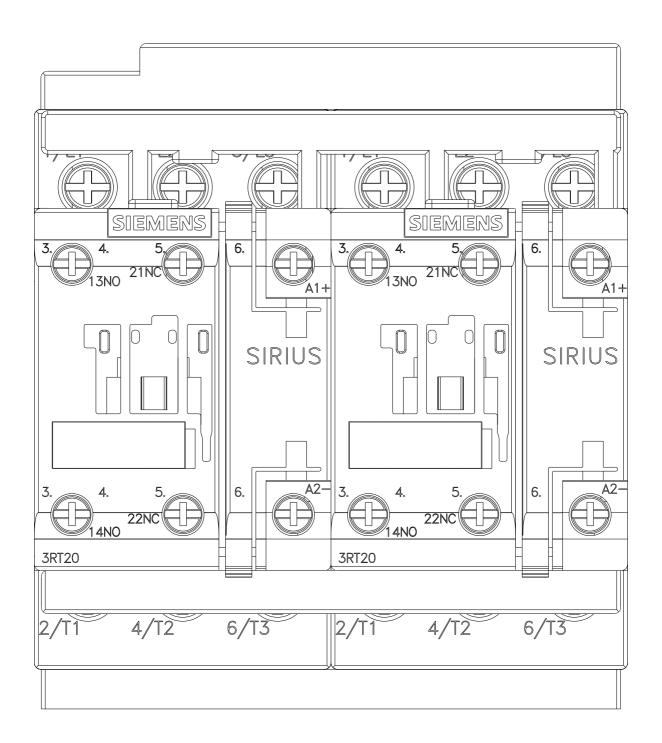
Characteristic: Tripping characteristics, I2t, Let-through current

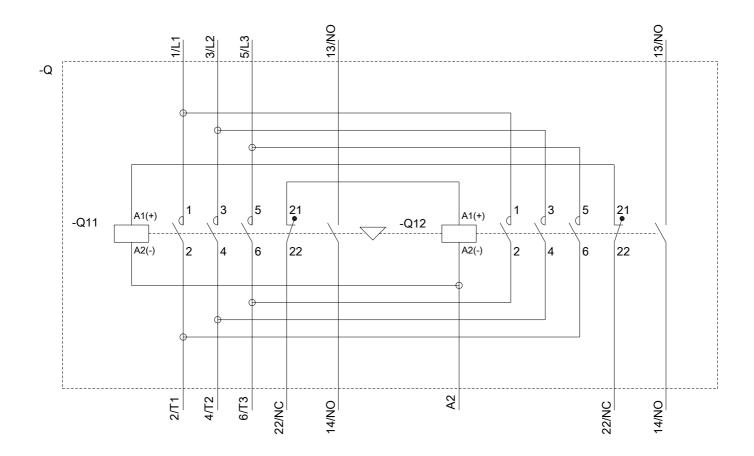
https://support.industry.siemens.com/cs/ww/en/ps/3RA2323-8XB30-1BB4/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2323-8XB30-1BB4&objecttype=14&gridview=view1









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