



Reversing contactor assembly AC-3, 3 kW/400 V 110 V AC 50 Hz/120 V 60 Hz, 3-pole Size S00, Spring-type terminal electrical and mechanical interlock

|  |                              |
|--|------------------------------|
| <b>product brand name</b>                                    | SIRIUS                       |
| <b>product designation</b>                                   | Reversing contactor assembly |
| <b>product type designation</b>                              | 3RA23                        |
| <b>manufacturer's article number</b>                         |                              |
| • 1 of the supplied contactor                                | 3RT2015-2AK62                |
| • 2 of the supplied contactor                                | 3RT2015-2AK62                |
| • of the supplied RH assembly kit                            | 3RA2913-2AA2                 |
| <b>General technical data</b>                                |                              |
| <b>size of contactor</b>                                     | S00                          |
| product extension auxiliary switch                           | Yes                          |
| <b>shock resistance at rectangular impulse</b>               |                              |
| • at AC  | 6,7g / 5 ms, 4,2g / 10 ms    |
| • at DC  | 6,7g / 5 ms, 4,2g / 10 ms    |
| <b>shock resistance with sine pulse</b>                      |                              |
| • at AC  | 10,5g / 5 ms, 6,6g / 10 ms   |
| • at DC  | 10,5g / 5 ms, 6,6g / 10 ms   |
| <b>mechanical service life (switching cycles)</b>            |                              |
| • of contactor typical                                       | 10 000 000                   |
| • of the contactor with added auxiliary switch block typical | 10 000 000                   |
| <b>reference code acc. to IEC 81346-2</b>                    | Q                            |
| Substance Prohibance (Date)                                  | 01.10.2009 00:00:00          |
| <b>Ambient conditions</b>                                    |                              |
| installation altitude at height above sea level maximum      | 2 000 m                      |
| • ambient temperature during operation                       | -25 ... +60 °C               |
| • ambient temperature during storage                         | -55 ... +80 °C               |
| <b>Main circuit</b>  |                              |
| <b>number of poles for main current circuit</b>              | 3                            |
| <b>number of NO contacts for main contacts</b>               | 3                            |
| <b>number of NC contacts for main contacts</b>               | 0                            |
| • operating voltage at AC-3 rated value maximum              | 690 V                        |
| operational current at AC-3                                  |                              |
| • at 400 V rated value                                       | 7 A                          |
| <b>operating power</b>                                       |                              |
| • at AC-3  |                              |
| — at 400 V rated value                                       | 3 kW                         |
| — at 500 V rated value                                       | 3.5 kW                       |

|   |  |
|---|--|
| — at 690 V rated value  | 4 kW   |
| • at AC-4 at 400 V rated value  | 3 kW   |
| operating frequency at AC-3 maximum   | 750 1/h  |
| <b>Control circuit/ Control</b>   |  |
| <b>type of voltage of the control supply voltage</b>                                  | AC   |
| <b>control supply voltage 1 at AC</b>   |  |
| • at 50 Hz rated value  | 110 V  |
| • at 60 Hz rated value  | 120 V  |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b> |  |
| • at 50 Hz  | 0.8 ... 1.1  |
| • at 60 Hz  | 0.85 ... 1.1   |
| <b>apparent pick-up power of magnet coil at AC</b>                                    |  |
| • at 50 Hz  | 27 V·A   |
| <b>inductive power factor with closing power of the coil</b>                          |  |
| • at 50 Hz  | 0.8  |
| <b>apparent holding power of magnet coil at AC</b>                                    |  |
| • at 50 Hz  | 4.2 V·A  |
| <b>inductive power factor with the holding power of the coil</b>                      |  |
| • at 50 Hz  | 0.25   |
| <b>Auxiliary circuit</b>  |  |
| <b>contact reliability of auxiliary contacts</b>                                      | < 1 error per 100 million operating cycles   |
| <b>UL/CSA ratings</b>   |  |
| <b>full-load current (FLA) for 3-phase AC motor</b>                                   |  |
| • at 480 V rated value  | 4.8 A  |
| • at 600 V rated value  | 6.1 A  |
| <b>yielded mechanical performance [hp] for 3-phase AC motor</b>                       |  |
| • at 200/208 V rated value  | 1.5 hp   |
| • at 220/230 V rated value  | 2 hp   |
| • at 460/480 V rated value  | 3 hp   |
| • at 575/600 V rated value  | 5 hp   |
| <b>contact rating of auxiliary contacts according to UL</b>                           | A600 / Q600  |
| <b>Short-circuit protection</b>   |  |
| <b>design of the fuse link</b>  |  |
| • 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 required                       | fuse gG: 10 A  |
| <b>Installation/ mounting/ dimensions</b>   |  |
| <b>mounting position</b>  | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| <b>fastening method</b>   | screw and snap-on mounting onto 35 mm standard mounting rail   |
| <b>height</b>   | 84 mm  |
| <b>width</b>  | 90 mm  |
| <b>depth</b>  | 83 mm  |
| <b>required spacing</b>   |  |
| • 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 |

#### Connections/ Terminals

|  |                                   |
|--|-----------------------------------|
| type of electrical connection for main current circuit | spring-loaded terminals           |
| <b>type of connectable conductor cross-sections</b>    |                                   |
| • for main contacts                                    |                                   |
| — solid  | 2x (0.5 ... 4 mm <sup>2</sup> )   |
| — solid or stranded                                    | 2x (0.5 ... 4 mm <sup>2</sup> )   |
| — finely stranded with core end processing             | 2x (0.5 ... 2.5 mm <sup>2</sup> ) |
| — finely stranded without core end processing          | 2x (0.5 ... 2.5 mm <sup>2</sup> ) |
| • at AWG cables for main contacts                      | 1x (20 ... 12)                    |
| <b>type of connectable conductor cross-sections</b>    |                                   |
| • for auxiliary contacts                               |                                   |
| — solid or stranded                                    | 2x (0.5 ... 2.5 mm <sup>2</sup> ) |
| — finely stranded with core end processing             | 2x (0.5 ... 1.5 mm <sup>2</sup> ) |
| — finely stranded without core end processing          | 2x (0.5 ... 1.5 mm <sup>2</sup> ) |
| • at AWG cables for auxiliary contacts                 | 2x (20 ... 14)                    |

#### Safety related data

|   |  |
|---|--|
| B10 value with high demand rate acc. to SN 31920                          | 1 000 000  |
| <b>proportion of dangerous failures</b>                                   |  |
| • 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  |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b> | 20 y   |
| <b>protection class IP on the front acc. to IEC 60529</b>                 | IP20   |
| <b>touch protection on the front acc. to IEC 60529</b>                    | finger-safe, for vertical contact from the front |

#### Communication/ Protocol

|   |     |
|---|-----|
| <b>product function bus communication</b>               | 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](#)

[Type Test  
Certificates/Test  
Report](#)

| Test Certificates | Marine / Shipping |
|-------------------|-------------------|
|-------------------|-------------------|

[Special Test  
Certificate](#)



|                   |       |         |
|-------------------|-------|---------|
| Marine / Shipping | other | Railway |
|-------------------|-------|---------|



[Confirmation](#)

[Vibration and Shock](#)

#### 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=3RA2315-8XB30-2AK6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2315-8XB30-2AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XB30-2AK6>

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

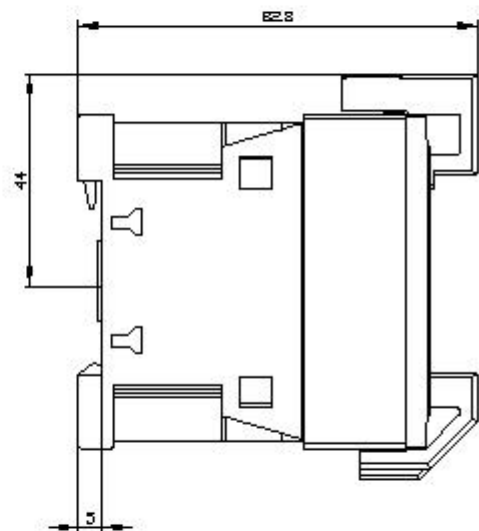
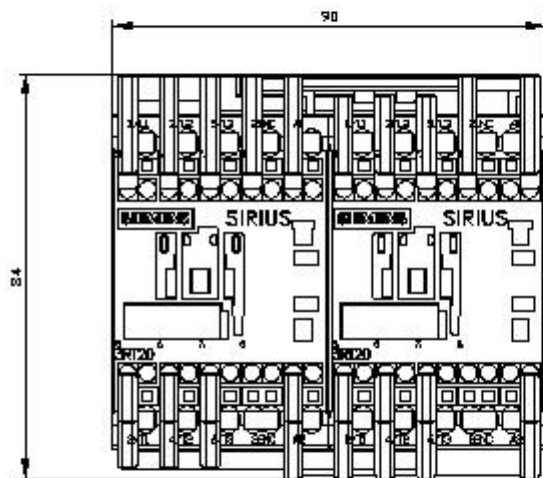
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2315-8XB30-2AK6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2315-8XB30-2AK6&lang=en)

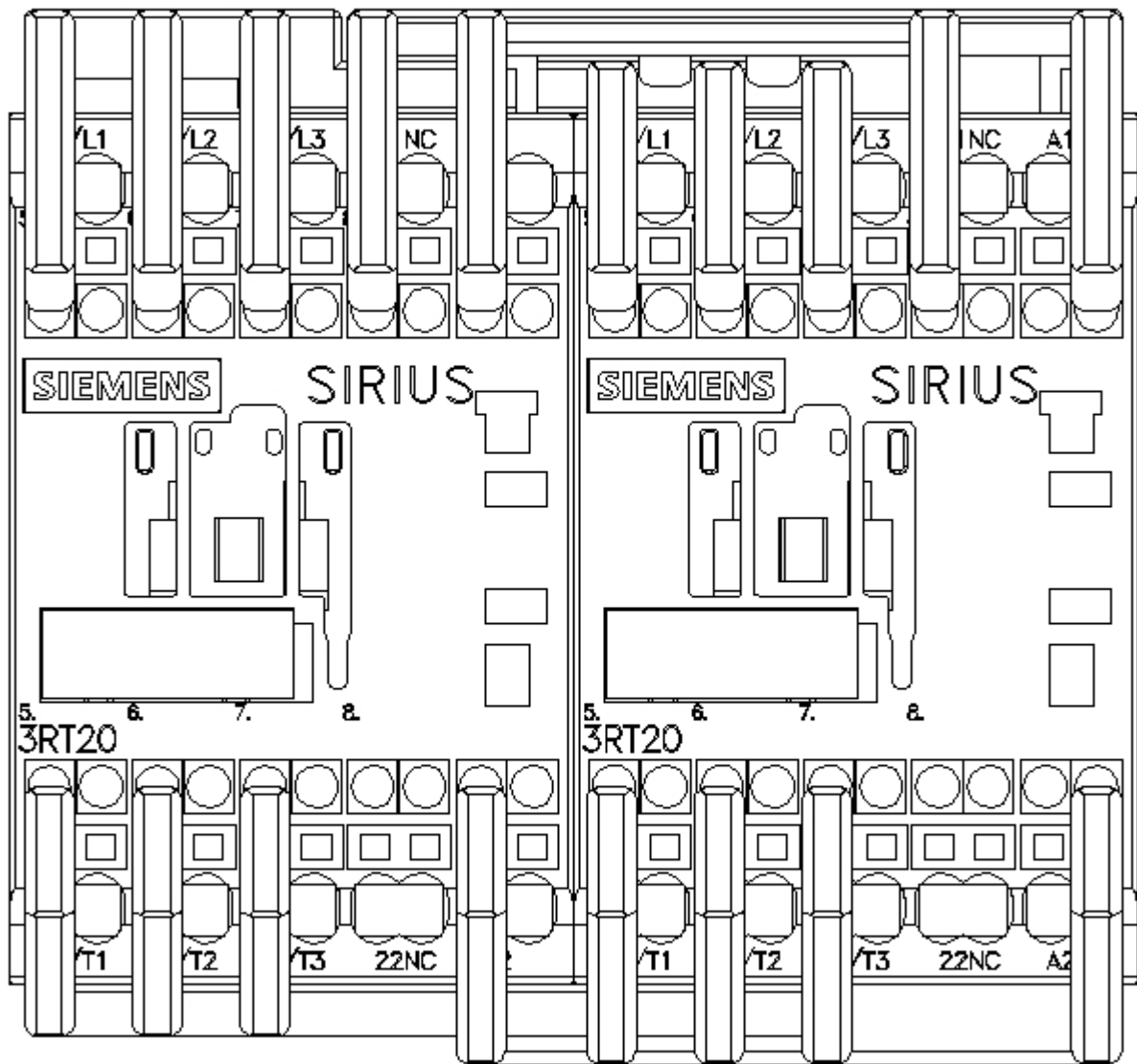
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

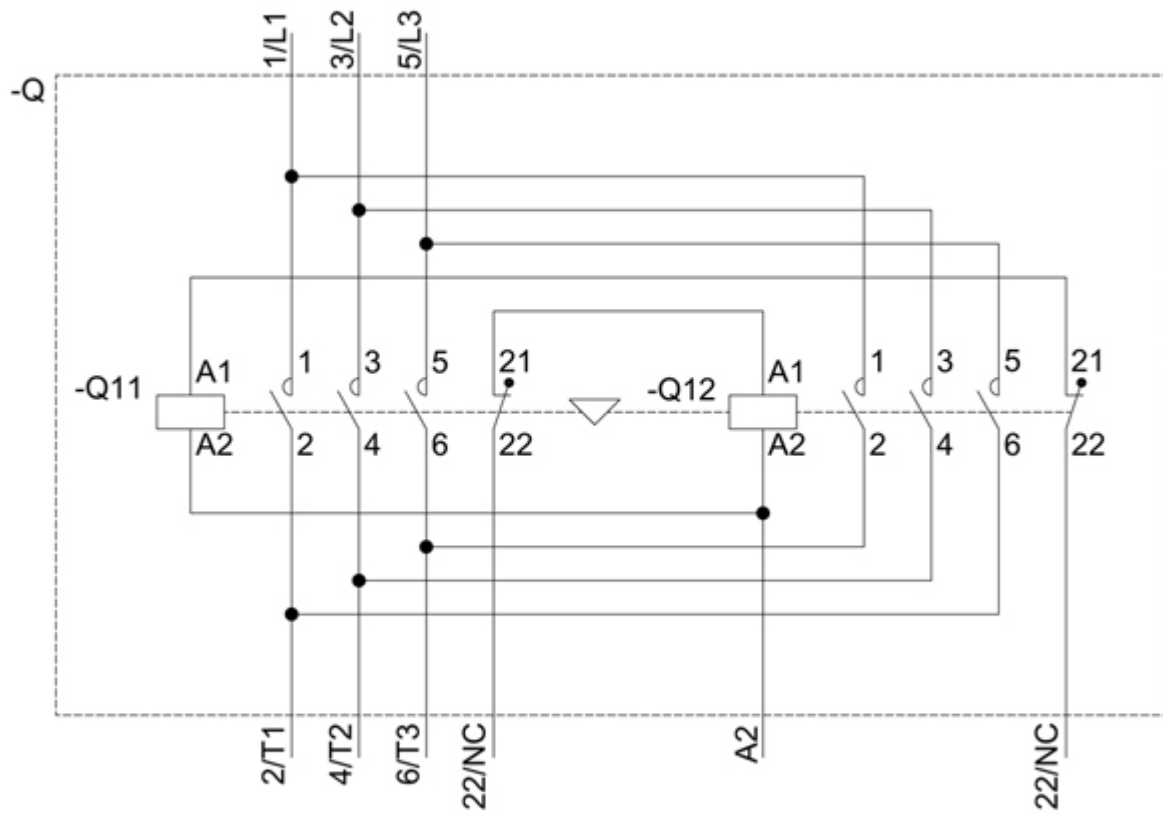
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2315-8XB30-2AK6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2315-8XB30-2AK6&objecttype=14&gridview=view1>







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