

reversing contactor assembly, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 48 V AC, 50/60 Hz, screw 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>  |  |
| <ul style="list-style-type: none"> <li>• 1 of the supplied contactor</li> <li>• 2 of the supplied contactor</li> <li>• of the supplied RH assembly kit</li> </ul>   | <a href="#">3RT2017-1AH02</a><br><a href="#">3RT2017-1AH02</a><br><a href="#">3RA2913-2AA1</a> |
| <b>General technical data</b>   |  |
| <b>size of contactor</b>  | S00  |
| product extension auxiliary switch  | Yes  |
| <b>shock resistance at rectangular impulse</b>  |  |
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>  | 7,3g / 5 ms, 4,7g / 10 ms<br>7,3g / 5 ms, 4,7g / 10 ms   |
| <b>shock resistance with sine pulse</b>   |  |
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>  | 11,4g / 5 ms, 7,3g / 10 ms<br>11,4g / 5 ms, 7,3g / 10 ms                                       |
| <b>mechanical service life (operating cycles)</b>   |  |
| <ul style="list-style-type: none"> <li>• of contactor typical</li> <li>• of the contactor with added auxiliary switch block typical</li> </ul>  | 10 000 000<br>10 000 000   |
| <b>reference code according to IEC 81346-2</b>  | Q  |
| <b>Substance Prohibition (Date)</b>   | 10/01/2009   |
| <b>Weight</b>   | 0.5 kg   |
| <b>Ambient conditions</b>   |  |
| installation altitude at height above sea level maximum   | 2 000 m  |
| <b>ambient temperature</b>  |  |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>  | -25 ... +60 °C<br>-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  |
| <b>operating voltage</b>  |  |
| <ul style="list-style-type: none"> <li>• at AC-3 rated value maximum</li> <li>• at AC-3e rated value maximum</li> </ul>   | 690 V<br>690 V   |
| <b>operational current</b>  |  |
| <ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> <li>• at AC-3e</li> </ul> | 12 A<br>9.2 A<br>6.7 A   |

|   |  |
|---|--|
| — at 400 V rated value  | 12 A   |
| — at 500 V rated value  | 9.2 A  |
| — at 690 V rated value  | 6.7 A  |
| <b>operating power</b>  |  |
| ● at AC-3   |  |
| — at 400 V rated value  | 5.5 kW   |
| — at 500 V rated value  | 5.5 kW   |
| — at 690 V rated value  | 5.5 kW   |
| ● at AC-3e  |  |
| — at 400 V rated value  | 5.5 kW   |
| — at 690 V rated value  | 5.5 kW   |
| ● at AC-4 at 400 V rated value  | 4 kW   |
| <b>operating frequency</b>  |  |
| ● at AC-3 maximum   | 750 1/h  |
| ● at AC-3e 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  | 48 V   |
| ● at 60 Hz rated value  | 48 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  | 37 VA  |
| <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  | 5.7 VA   |
| <b>inductive power factor with the holding power of the coil</b>                      |  |
| ● at 50 Hz  | 0.28   |
| <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  | 11 A   |
| ● at 600 V rated value  | 11 A   |
| yielded mechanical performance [hp] for 3-phase AC motor                              |  |
| ● at 200/208 V rated value  | 1.5 hp   |
| ● at 220/230 V rated value  | 3 hp   |
| ● at 460/480 V rated value  | 7.5 hp   |
| ● at 575/600 V rated value  | 10 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: 50 A  |
| — with type of coordination 2 required  | gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 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 DIN rail   |
| <b>height</b>   | 68 mm  |
| <b>width</b>  | 90 mm  |
| <b>depth</b>  | 73 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

|  |  |
|--|--|
| <b>type of electrical connection</b>                           |  |
| • for main current circuit                                     | screw-type terminals   |
| • for auxiliary and control circuit                            | screw-type terminals   |
| • at contactor for auxiliary contacts                          | Screw-type terminals   |
| • of magnet coil   | Screw-type terminals   |
| type of connectable conductor cross-sections for main contacts |  |
| • solid  | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>            |
| • solid or stranded  | 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x (0,5 ... 4 mm <sup>2</sup> ) |
| • finely stranded with core end processing                     | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )                                  |
| <b>type of connectable conductor cross-sections</b>            |  |
| • for auxiliary contacts                                       |  |
| — solid or stranded  | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )                                  |
| — finely stranded with core end processing                     | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )                                  |
| • for AWG cables for auxiliary contacts                        | 2x (20 ... 16), 2x (18 ... 14)   |


### Safety related data

|  |  |
|--|--|
| product function suitable for safety function                  | Yes  |
| Electrical Safety  |  |
| <b>protection class IP on the front according to IEC 60529</b> | IP20   |
| <b>touch protection on the front according 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  |

### Approvals Certificates

| General Product Approval  | Test Certificates  |
|---|--|
|     | <a href="#">Type Test Certificates/Test Report</a><br><a href="#">Special Test Certificate</a> |

### Maritime application

|   |
|---|
|       |
|---|

| Maritime application  | other   | Railway                      | Environment   |
|---|---|------------------------------|---|
|  |  | <a href="#">Confirmation</a> | <a href="#">Special Test Certificate</a><br><a href="#">Environmental Confirmations</a> |

## Further information

### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

### 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=3RA2317-8XB30-1AH0>

### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2317-8XB30-1AH0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2317-8XB30-1AH0>

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

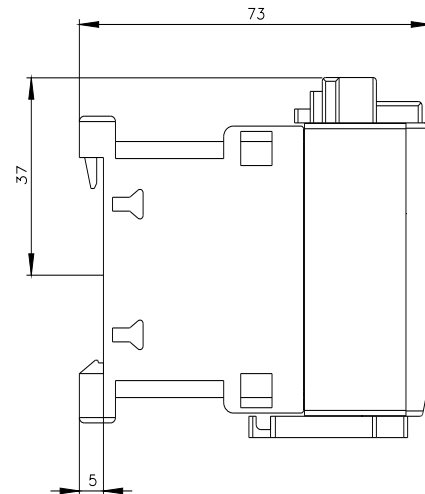
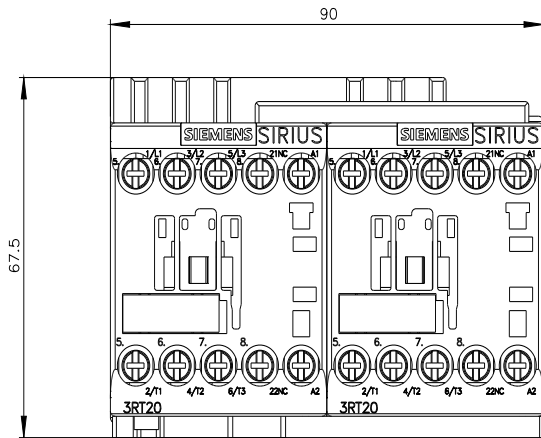
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2317-8XB30-1AH0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2317-8XB30-1AH0&lang=en)

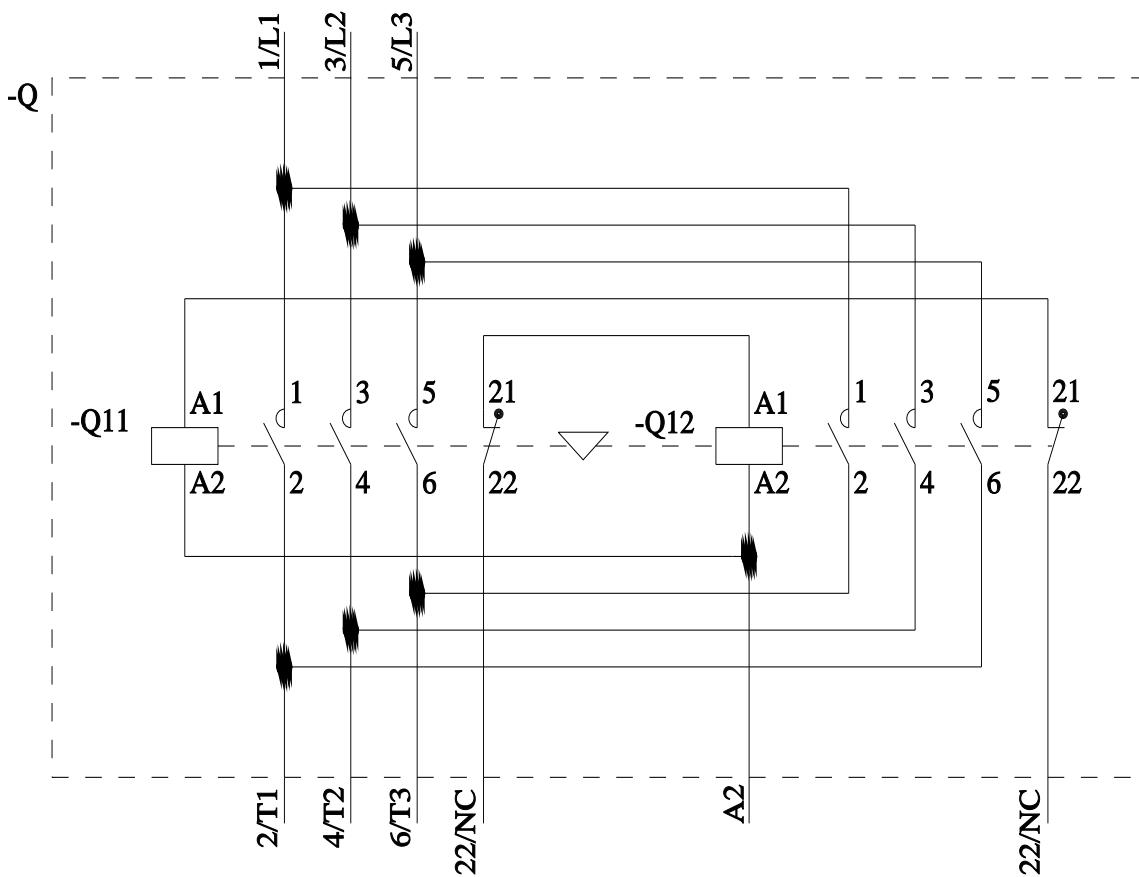
### Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2317-8XB30-1AH0/char>

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

<https://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2317-8XB30-1AH0&objecttype=14&gridview=view1>





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