

reversing contactor assembly, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 230 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="#">3RT2016-1AP02</a><br><a href="#">3RT2016-1AP02</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>  | 6,7 g / 5 ms, 4,2 g / 10 ms<br>6,7 g / 5 ms, 4,2 g / 10 ms                                     |
| <b>shock resistance with sine pulse</b>   |  |
| <ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>  | 10,5 g / 5 ms, 6,6 g / 10 ms<br>10,5 g / 5 ms, 6,6 g / 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 (day/month/year)</b>   | 10/01/2009   |
| <b>Net Weight</b>   | 0.487 g  |
| <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> </ul> | 9 A<br>7.7 A<br>6.7 A  |

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| <ul style="list-style-type: none"> <li>● at AC-3e <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> </ul>   | <p>9 A</p> <p>7.7 A</p> <p>6.7 A</p>   |
| <b>operating power</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 <ul style="list-style-type: none"> <li>— at 400 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> <li>● at AC-4 at 400 V rated value</li> </ul> | <p>4 kW</p> <p>4 kW</p> <p>5.5 kW</p> <p>4 kW</p> <p>5.5 kW</p> <p>4 kW</p>  |
| <b>operating frequency</b> <ul style="list-style-type: none"> <li>● at AC-3 maximum</li> <li>● at AC-3e maximum</li> </ul>   | <p>750 1/h</p> <p>750 1/h</p>  |
| <b>Control circuit/ Control</b>  |  |
| <b>type of voltage of the control supply voltage</b>   | AC   |
| <b>control supply voltage 1 at AC</b> <ul style="list-style-type: none"> <li>● at 50 Hz rated value</li> <li>● at 60 Hz rated value</li> </ul>   | <p>230 V</p> <p>230 V</p>  |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b> <ul style="list-style-type: none"> <li>● at 50 Hz</li> <li>● at 60 Hz</li> </ul>   | <p>0.8 ... 1.1</p> <p>0.85 ... 1.1</p>   |
| <b>apparent pick-up power of magnet coil at AC</b> <ul style="list-style-type: none"> <li>● at 50 Hz</li> </ul>  | 27 VA  |
| <b>inductive power factor with closing power of the coil</b> <ul style="list-style-type: none"> <li>● at 50 Hz</li> </ul>  | 0.8  |
| <b>apparent holding power of magnet coil at AC</b> <ul style="list-style-type: none"> <li>● at 50 Hz</li> </ul>  | 4.2 VA   |
| <b>inductive power factor with the holding power of the coil</b> <ul style="list-style-type: none"> <li>● at 50 Hz</li> </ul>  | 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> <ul style="list-style-type: none"> <li>● at 480 V rated value</li> <li>● at 600 V rated value</li> </ul>   | <p>7.6 A</p> <p>9 A</p>  |
| yielded mechanical performance [hp] for 3-phase AC motor <ul style="list-style-type: none"> <li>● at 200/208 V rated value</li> <li>● at 220/230 V rated value</li> <li>● at 460/480 V rated value</li> <li>● at 575/600 V rated value</li> </ul>  | <p>2 hp</p> <p>3 hp</p> <p>5 hp</p> <p>7.5 hp</p>  |
| <b>contact rating of auxiliary contacts according to UL</b>  | A600 / Q600  |
| <b>Short-circuit protection</b>  |  |
| <b>design of the fuse link</b> <ul style="list-style-type: none"> <li>● for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of coordination 1 required</li> <li>— with type of coordination 2 required</li> </ul> </li> <li>● for short-circuit protection of the auxiliary switch required</li> </ul>   | <p>gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A</p> <p>gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A</p> <p>fuse gG: 10 A</p>                   |
| <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>   |  |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> <li>• at contactor for auxiliary contacts</li> <li>• of magnet coil</li> </ul>   | screw-type terminals<br>screw-type terminals<br>Screw-type terminals<br>Screw-type terminals   |
| type of connectable conductor cross-sections for main contacts   |  |
| <ul style="list-style-type: none"> <li>• solid</li> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>   | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup><br>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> )<br>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>  |  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts               <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• for AWG cables for auxiliary contacts</li> </ul> | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14)   |

### Safety related data

|  |  |
|--|--|
| product function suitable for safety function                  | Yes  |
| <b>Electrical Safety</b>                                       |  |
| <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

|                    |                                 |                          |
|--------------------|---------------------------------|--------------------------|
| <b>Environment</b> | <b>General Product Approval</b> | <b>Test Certificates</b> |
|--------------------|---------------------------------|--------------------------|

[Environmental Con-  
firmations](#)



[Type Test Certific-  
ates/Test Report](#)

|                          |                             |
|--------------------------|-----------------------------|
| <b>Test Certificates</b> | <b>Maritime application</b> |
|--------------------------|-----------------------------|

[Special Test Certific-  
ate](#)



|                             |              |                |
|-----------------------------|--------------|----------------|
| <b>Maritime application</b> | <b>other</b> | <b>Railway</b> |
|-----------------------------|--------------|----------------|



Confirmation

Confirmation



Special Test Certificate

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=3RA2316-8XB30-1AP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-1AP0>

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

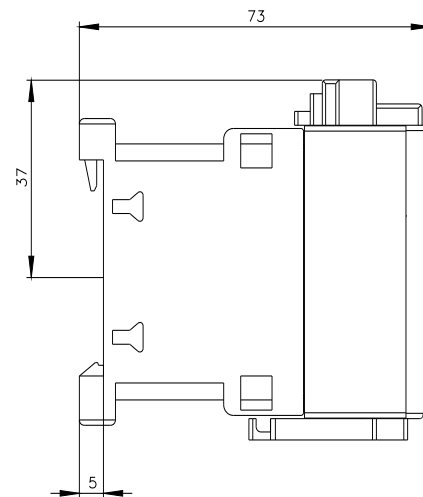
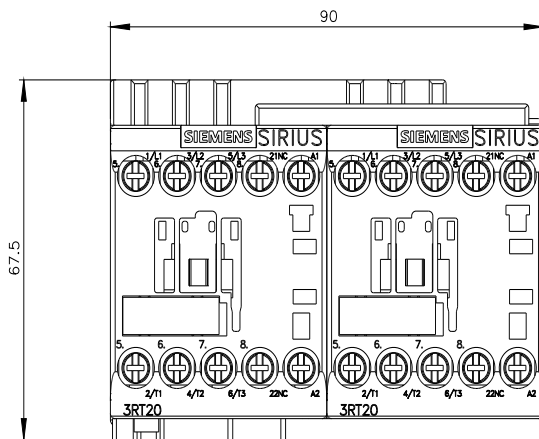
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2316-8XB30-1AP0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2316-8XB30-1AP0&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2316-8XB30-1AP0>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





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