



reversing contactor assembly, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, screw terminal, electrical and mechanical interlock, auxiliary contacts: 2 x 1 NO

**product brand name**  
**product designation**  
**product type designation**  
**manufacturer's article number**

- 1 of the supplied contactor
- 2 of the supplied contactor
- of the supplied RH assembly kit

SIRIUS  
 Reversing contactor assembly  
 3RA23

[3RT2025-1AP60](#)  
[3RT2025-1AP60](#)  
[3RA2923-2AA1](#)

### General technical data

**size of contactor** S0  
**product extension auxiliary switch** Yes  
**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 (operating cycles)**  
 • of contactor typical 10 000 000  
 • of the contactor with added auxiliary switch block typical 10 000 000  
**reference code according to IEC 81346-2** Q  
**Substance Prohibitance (Date)** 10/01/2009
















### 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  
 • at AC-3e rated value maximum 690 V  
**operational current**  
 • at AC-3  
 — at 400 V rated value 17 A  
 — at 500 V rated value 17 A  
 — at 690 V rated value 13 A  
 • at AC-3e  
 — at 400 V rated value 17 A  
 — at 500 V rated value 17 A

|   |  |
|---|--|
| — at 690 V rated value  | 13 A   |
| <b>operating power</b>  |  |
| • at AC-3   |  |
| — at 400 V rated value  | 7.5 kW   |
| — at 500 V rated value  | 7.5 kW   |
| — at 690 V rated value  | 11 kW  |
| • at AC-3e  |  |
| — at 400 V rated value  | 7.5 kW   |
| — at 690 V rated value  | 11 kW  |
| • at AC-4 at 400 V rated value  | 7.5 kW   |
| <b>operating frequency</b>  |  |
| • at AC-3 maximum   | 1 000 1/h  |
| • at AC-3e maximum  | 1 000 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  | 220 V  |
| • at 60 Hz rated value  | 240 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  | 0.8 ... 1.1  |
| <b>apparent pick-up power of magnet coil at AC</b>                                    |  |
| • at 50 Hz  | 65 VA  |
| <b>inductive power factor with closing power of the coil</b>                          |  |
| • at 50 Hz  | 0.82   |
| <b>apparent holding power of magnet coil at AC</b>                                    |  |
| • at 50 Hz  | 8.5 VA   |
| <b>inductive power factor with the holding power of the coil</b>                      |  |
| • at 50 Hz  | 0.25   |
| <b>Auxiliary circuit</b>  |  |
| <b>number of NO contacts for auxiliary contacts</b>                                   |  |
| • per direction of rotation   | 1  |
| • instantaneous contact   | 2  |
| <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  | 14 A   |
| • at 600 V rated value  | 17 A   |
| <b>yielded mechanical performance [hp] for 3-phase AC motor</b>                       |  |
| • at 220/230 V rated value  | 5 hp   |
| • at 460/480 V rated value  | 10 hp  |
| • at 575/600 V rated value  | 15 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: 63 A  |
| — with type of assignment 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>   | 101 mm   |
| <b>width</b>  | 90 mm  |
| <b>depth</b>  | 97 mm  |
| <b>required spacing</b>   |  |
| • with side-by-side mounting  |  |
| — forwards  | 6 mm   |
| — backwards   | 0 mm   |

| <ul style="list-style-type: none"> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul>  | 6 mm<br>6 mm<br>6 mm<br><br>6 mm<br>0 mm<br>6 mm<br>6 mm<br>6 mm<br><br>6 mm<br>0 mm<br>6 mm<br>6 mm<br>6 mm   |                          |                           |  |  |
|--|--|--------------------------|---------------------------|--|--|
| <b>Connections/ Terminals</b>  |  |                          |                           |  |  |
| <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> <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• 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> </li> <li>• at AWG cables for main contacts</li> </ul> <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>• at AWG cables for auxiliary contacts</li> </ul> | screw-type terminals<br>screw-type terminals<br>Screw-type terminals<br>Screw-type terminals<br><br><br><br><br><br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )<br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )<br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup><br>2x (16 ... 12), 2x (14 ... 8)<br><br><br>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) |                          |                           |  |  |
| <b>Safety related data</b>   |  |                          |                           |  |  |
| B10 value with high demand rate according to SN 31920  | 1 000 000  |                          |                           |  |  |
| <b>proportion of dangerous failures</b>  |  |                          |                           |  |  |
| • with low demand rate according to SN 31920   | 40 %   |                          |                           |  |  |
| • with high demand rate according to SN 31920  | 75 %   |                          |                           |  |  |
| failure rate [FIT] with low demand rate according to SN 31920  | 100 FIT  |                          |                           |  |  |
| T1 value for proof test interval or service life according to IEC 61508  | 20 y   |                          |                           |  |  |
| <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   |                          |                           |  |  |
| <b>Communication/ Protocol</b>   |  |                          |                           |  |  |
| <b>product function bus communication</b>  | Yes  |                          |                           |  |  |
| protocol is supported AS-Interface protocol  | No   |                          |                           |  |  |
| product function control circuit interface with IO link  | No   |                          |                           |  |  |
| <b>Certificates/ approvals</b>   |  |                          |                           |  |  |
| <table> <tr> <th>General Product Approval</th><th>Declaration of Conformity</th></tr> <tr> <td>  <a href="#">Confirmation</a>     </td><td></td></tr> </table>  |  | General Product Approval | Declaration of Conformity |  <a href="#">Confirmation</a>     |  |
| General Product Approval   | Declaration of Conformity  |                          |                           |  |  |
|  <a href="#">Confirmation</a>       |  |                          |                           |  |  |
| <table> <tr> <th>Test Certificates</th><th>Marine / Shipping</th></tr> </table>  |  | Test Certificates        | Marine / Shipping         |  |  |
| Test Certificates  | Marine / Shipping  |                          |                           |  |  |



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=3RA2325-8XB30-1AP6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2325-8XB30-1AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2325-8XB30-1AP6>

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

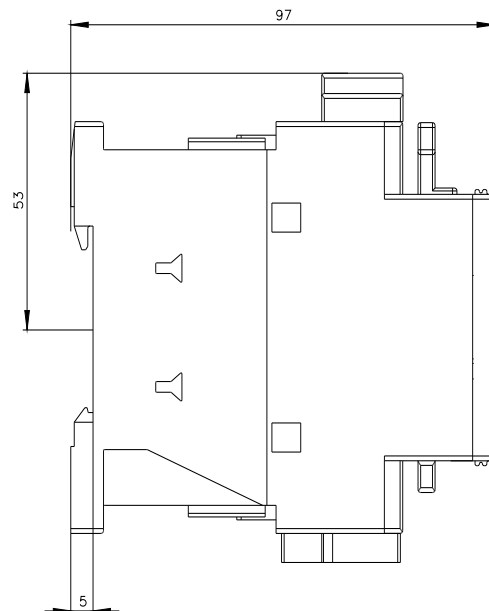
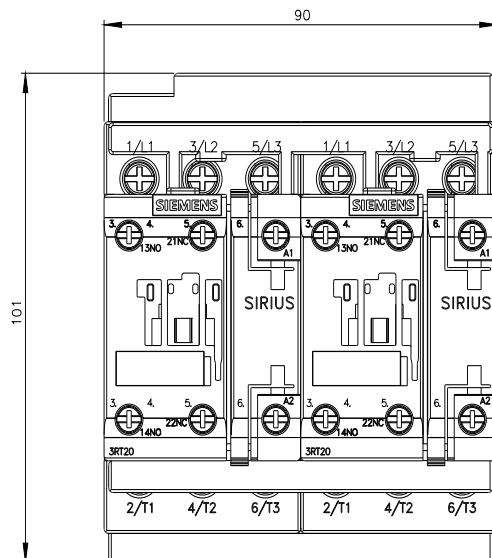
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2325-8XB30-1AP6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2325-8XB30-1AP6&lang=en)

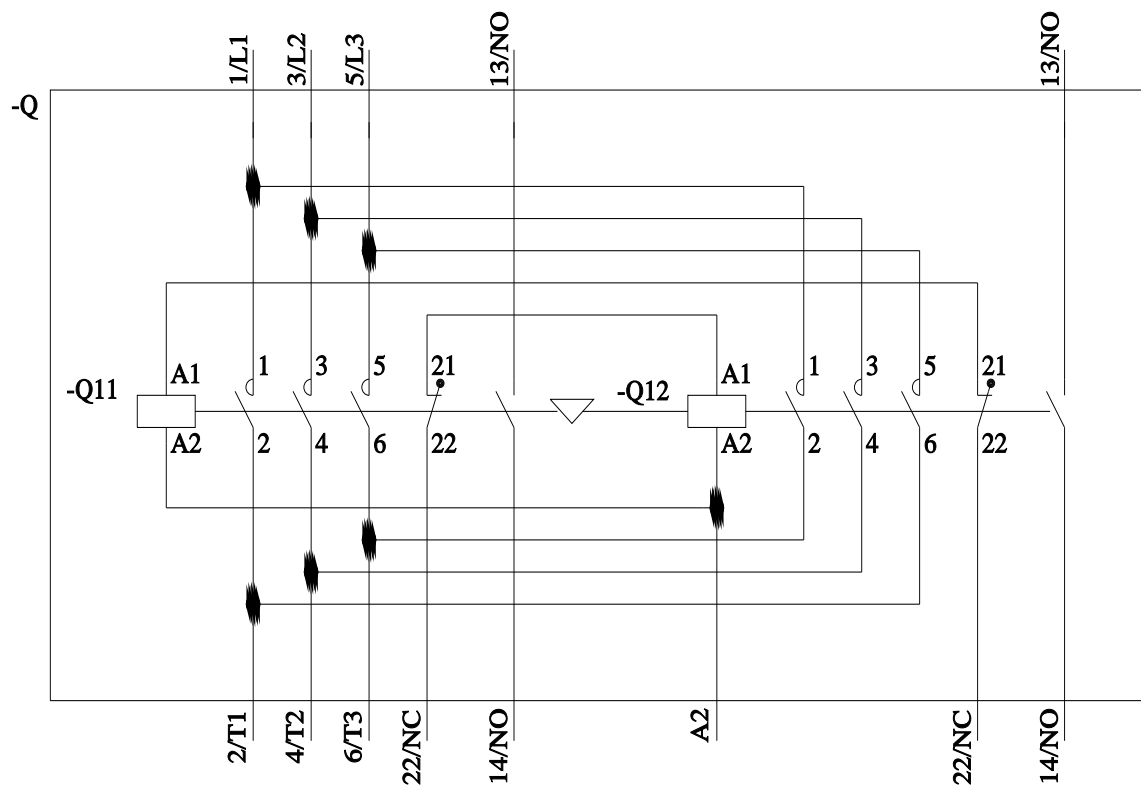
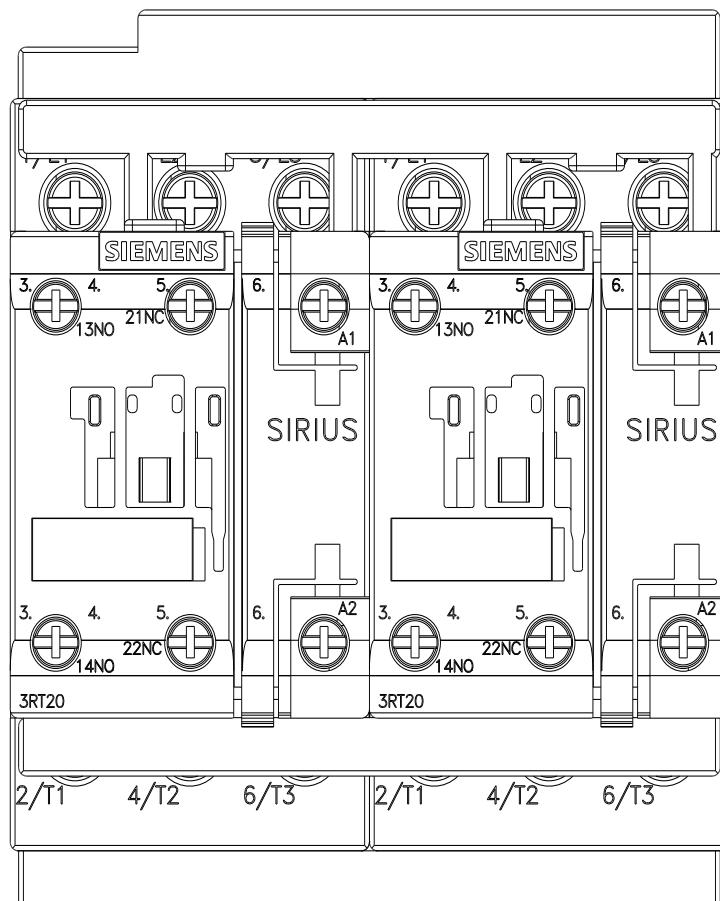
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2325-8XB30-1AP6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2325-8XB30-1AP6&objecttype=14&gridview=view1>





last modified:

11/21/2022