



reversing contactor assembly, AC-3e/AC-3, 65 A, 30 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                                           | SIRIUS                        |
| product designation                                          | Reversing contactor assembly  |
| product type designation                                     | 3RA23                         |
| manufacturer's article number                                |                               |
| • 1 of the supplied contactor                                | <a href="#">3RT2037-1AG20</a> |
| • 2 of the supplied contactor                                | <a href="#">3RT2037-1AG20</a> |
| • of the supplied RS assembly kit                            | <a href="#">3RA2933-2AA1</a>  |
| <b>General technical data</b>                                |                               |
| size of contactor                                            | S2                            |
| product extension auxiliary switch                           | Yes                           |
| shock resistance at rectangular impulse                      |                               |
| • at AC                                                      | 11.8g / 5 ms, 11.6g / 10 ms   |
| shock resistance with sine pulse                             |                               |
| • at AC                                                      | 18.5g / 5 ms, 11.6g / 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 Prohibition (Date)                                 | 10/01/2014                    |
| Weight                                                       | 2.606 kg                      |
| <b>Ambient conditions</b>                                    |                               |
| installation altitude at height above sea level maximum      | 2 000 m                       |
| ambient temperature                                          |                               |
| • during operation                                           | -25 ... +60 °C                |
| • during storage                                             | -55 ... +80 °C                |
| <b>Main circuit</b>                                          |                               |
| 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                                       | 65 A                          |
| — at 500 V rated value                                       | 65 A                          |
| — at 690 V rated value                                       | 47 A                          |
| • at AC-3e                                                   |                               |
| — at 400 V rated value                                       | 65 A                          |
| — at 500 V rated value                                       | 65 A                          |

|                                                                                       |                                                                                                                                      |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| — at 690 V rated value                                                                | 47 A                                                                                                                                 |
| <b>operating power</b>                                                                |                                                                                                                                      |
| • at AC-3                                                                             |                                                                                                                                      |
| — at 400 V rated value                                                                | 30 kW                                                                                                                                |
| — at 500 V rated value                                                                | 37 kW                                                                                                                                |
| — at 690 V rated value                                                                | 37 kW                                                                                                                                |
| • at AC-3e                                                                            |                                                                                                                                      |
| — at 400 V rated value                                                                | 30 kW                                                                                                                                |
| — at 690 V rated value                                                                | 37 kW                                                                                                                                |
| • at AC-4 at 400 V rated value                                                        | 30 kW                                                                                                                                |
| <b>operating frequency</b>                                                            |                                                                                                                                      |
| • at AC-3 maximum                                                                     | 700 1/h                                                                                                                              |
| • at AC-3e maximum                                                                    | 700 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                                                                            | 0.85 ... 1.1                                                                                                                         |
| <b>apparent pick-up power of magnet coil at AC</b>                                    |                                                                                                                                      |
| • at 50 Hz                                                                            | 210 VA                                                                                                                               |
| • at 60 Hz                                                                            | 188 VA                                                                                                                               |
| <b>inductive power factor with closing power of the coil</b>                          |                                                                                                                                      |
| • at 50 Hz                                                                            | 0.69                                                                                                                                 |
| • at 60 Hz                                                                            | 0.65                                                                                                                                 |
| <b>apparent holding power of magnet coil at AC</b>                                    |                                                                                                                                      |
| • at 50 Hz                                                                            | 17.2 VA                                                                                                                              |
| • at 60 Hz                                                                            | 16.5 VA                                                                                                                              |
| <b>inductive power factor with the holding power of the coil</b>                      |                                                                                                                                      |
| • at 50 Hz                                                                            | 0.36                                                                                                                                 |
| • at 60 Hz                                                                            | 0.39                                                                                                                                 |
| <b>Auxiliary circuit</b>                                                              |                                                                                                                                      |
| <b>number of NC contacts for auxiliary contacts</b>                                   |                                                                                                                                      |
| • per direction of rotation                                                           | 0                                                                                                                                    |
| <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                                                                | 65 A                                                                                                                                 |
| • at 600 V rated value                                                                | 62 A                                                                                                                                 |
| <b>yielded mechanical performance [hp] for 3-phase AC motor</b>                       |                                                                                                                                      |
| • at 220/230 V rated value                                                            | 20 hp                                                                                                                                |
| • at 460/480 V rated value                                                            | 50 hp                                                                                                                                |
| • at 575/600 V rated value                                                            | 50 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: 250 A                                                                                             |
| — with type of assignment 2 required                                                  | gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 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>                                                                         | 141 mm                                                                                                                               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 120 mm                                                                                                                                   |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 130 mm                                                                                                                                   |
| <b>required spacing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                          |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <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> <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> | 10 mm<br>0 mm<br>10 mm<br>10 mm<br>10 mm<br><br>10 mm<br>0 mm<br>10 mm<br>10 mm<br>10 mm<br><br>10 mm<br>0 mm<br>10 mm<br>10 mm<br>10 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                                                                                                       |
| <b>type of connectable conductor cross-sections for main contacts</b>                                                                                                                                                                                  |                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• solid</li> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                             | 2x (1 ... 35 mm <sup>2</sup> ), 1x (1 ... 50 mm <sup>2</sup> )<br>2x (1 ... 35 mm <sup>2</sup> ), 1x (1 ... 50 mm <sup>2</sup> )<br>2x (1 ... 25 mm <sup>2</sup> ), 1x (1 ... 35 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

##### General Product Approval



[Confirmation](#)



##### Test Certificates

##### Marine / Shipping

[Type Test Certificates/Test Report](#)




[Confirmation](#)
[Transport Information](#)
[Environmental Confirmations](#)

#### Further information

##### Information on the packaging

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

##### 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=3RA2337-8XB30-1AP6>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2337-8XB30-1AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1AP6>

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

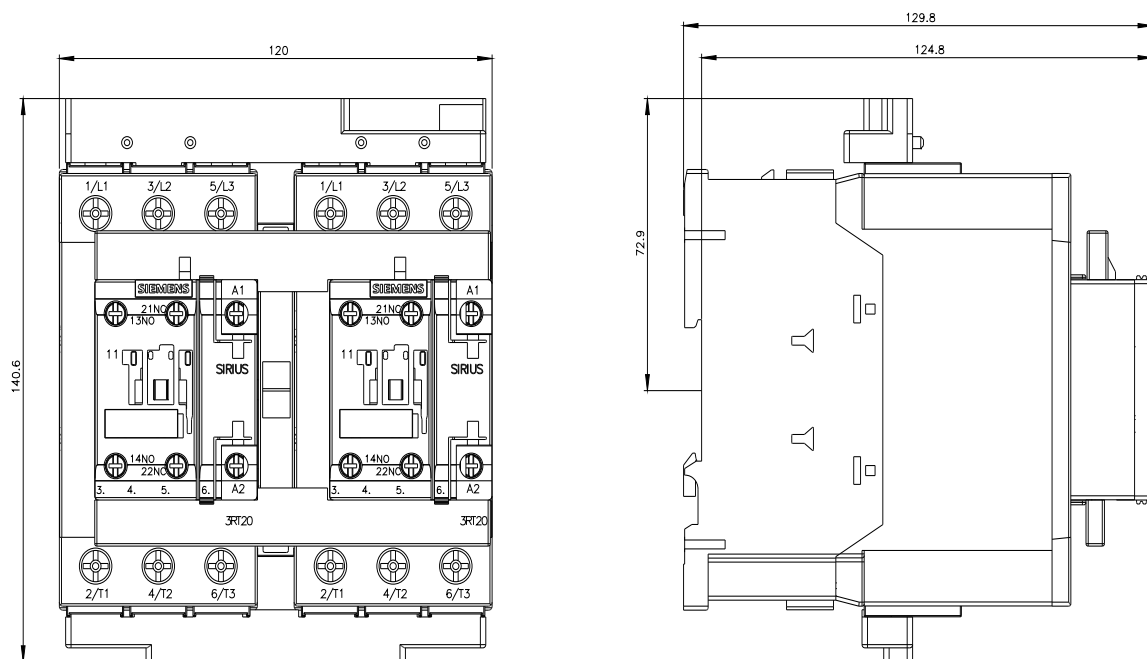
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2337-8XB30-1AP6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2337-8XB30-1AP6&lang=en)

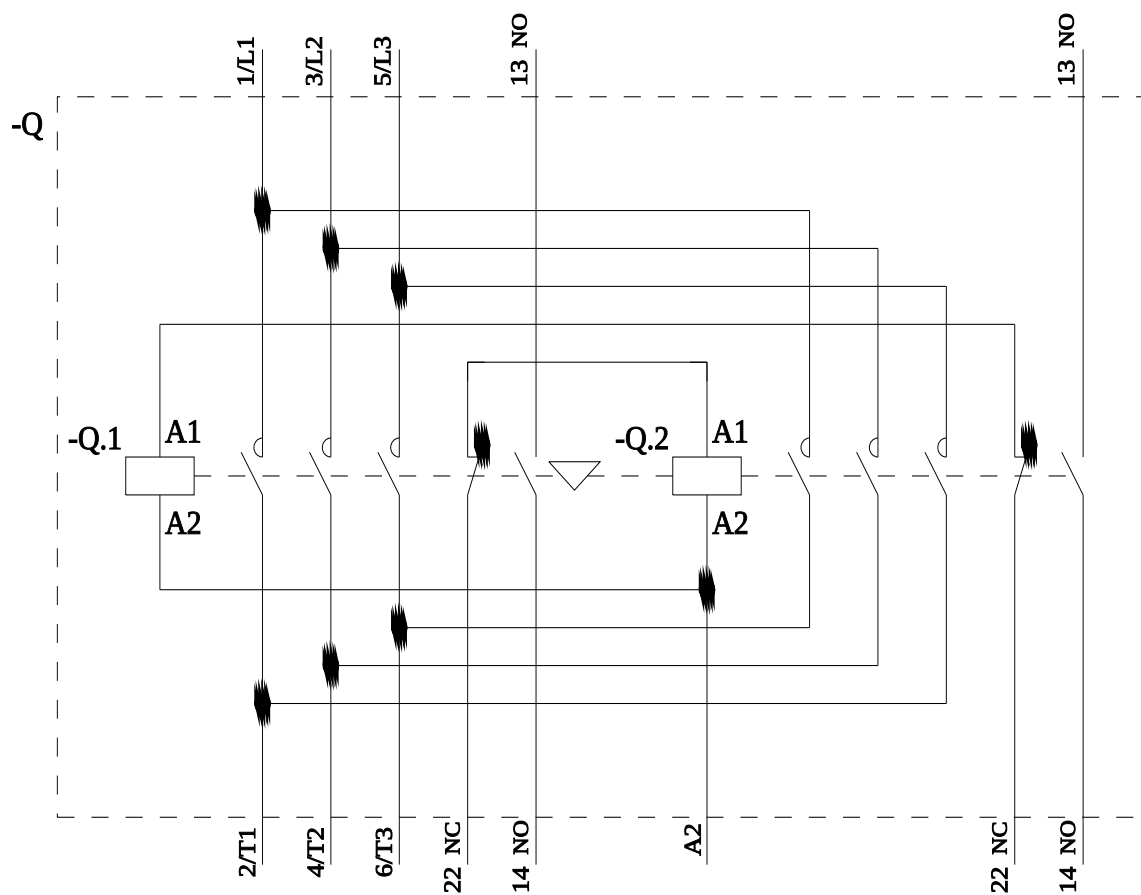
##### Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1AP6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2337-8XB30-1AP6&objecttype=14&gridview=view1>





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