



reversing contactor assembly, AC-3e/AC-3, 110 A, 55 kW / 400 V, 3-pole, 230 V AC, 50/60 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="#">3RT2047-1AL20</a> |
| • 2 of the supplied contactor                                | <a href="#">3RT2047-1AL20</a> |
| • of the supplied RS assembly kit                            | <a href="#">3RA2943-2AA1</a>  |
| <b>General technical data</b>                                |                               |
| size of contactor                                            | S3                            |
| product extension auxiliary switch                           | Yes                           |
| shock resistance at rectangular impulse                      |                               |
| • at AC                                                      | 6.7 g / 5 ms, 4.0 g / 10 ms   |
| shock resistance with sine pulse                             |                               |
| • at AC                                                      | 10.6 g / 5 ms, 6.3 g / 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 (day/month/year)                      | 03/01/2017                    |
| Net Weight                                                   | 4.09 kg                       |
| <b>Ambient conditions</b>                                    |                               |
| installation altitude at height above sea level maximum      | 2 000 m                       |
| ambient temperature                                          |                               |
| • during operation                                           | 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                                | 1 000 V                       |
| • at AC-3e rated value maximum                               | 1 000 V                       |
| operational current                                          |                               |
| • at AC-3                                                    |                               |
| — at 400 V rated value                                       | 110 A                         |
| — at 500 V rated value                                       | 110 A                         |
| — at 690 V rated value                                       | 98 A                          |
| • at AC-3e                                                   |                               |
| — at 400 V rated value                                       | 110 A                         |

|                                                                                       |                                                                                   |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| — at 500 V rated value                                                                | 110 A                                                                             |
| — at 690 V rated value                                                                | 98 A                                                                              |
| <b>operating power</b>                                                                |                                                                                   |
| • at AC-3                                                                             |                                                                                   |
| — at 400 V rated value                                                                | 55 kW                                                                             |
| — at 500 V rated value                                                                | 75 kW                                                                             |
| — at 690 V rated value                                                                | 90 kW                                                                             |
| • at AC-3e                                                                            |                                                                                   |
| — at 400 V rated value                                                                | 55 kW                                                                             |
| — at 690 V rated value                                                                | 90 kW                                                                             |
| • at AC-4 at 400 V rated value                                                        | 55 kW                                                                             |
| <b>operating frequency</b>                                                            |                                                                                   |
| • at AC-3 maximum                                                                     | 850 1/h                                                                           |
| • at AC-3e maximum                                                                    | 850 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                                                                | 230 V                                                                             |
| • at 60 Hz rated value                                                                | 230 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                                                                            | 348 VA                                                                            |
| • at 60 Hz                                                                            | 296 VA                                                                            |
| <b>inductive power factor with closing power of the coil</b>                          |                                                                                   |
| • at 50 Hz                                                                            | 0.62                                                                              |
| • at 60 Hz                                                                            | 0.55                                                                              |
| <b>apparent holding power of magnet coil at AC</b>                                    |                                                                                   |
| • at 50 Hz                                                                            | 25 VA                                                                             |
| • at 60 Hz                                                                            | 18 VA                                                                             |
| <b>inductive power factor with the holding power of the coil</b>                      |                                                                                   |
| • at 50 Hz                                                                            | 0.35                                                                              |
| • at 60 Hz                                                                            | 0.41                                                                              |
| <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>UL/CSA ratings</b>                                                                 |                                                                                   |
| <b>full-load current (FLA) for 3-phase AC motor</b>                                   |                                                                                   |
| • at 480 V rated value                                                                | 96 A                                                                              |
| • at 600 V rated value                                                                | 99 A                                                                              |
| <b>yielded mechanical performance [hp] for 3-phase AC motor</b>                       |                                                                                   |
| • at 200/208 V rated value                                                            | 30 hp                                                                             |
| • at 220/230 V rated value                                                            | 40 hp                                                                             |
| • at 460/480 V rated value                                                            | 75 hp                                                                             |
| • at 575/600 V rated value                                                            | 100 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: 355 A                                          |
| — with type of coordination 2 required                                                | gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 160 mm                                                                                                                                   |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 150 mm                                                                                                                                   |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 152 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                                                      |
| type of connectable conductor cross-sections for main contacts                                                                                                                                                                                         |                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> <li>• finely stranded without core end processing</li> </ul>                                                                       | 2x (2.5 ... 16 mm²), 2x (10 ... 50 mm²), 1x (10 ... 70 mm²)<br>2x (2.5 ... 35 mm²), 1x (2.5 ... 50 mm²)<br>2x (10 ... 35 mm²), 1x (10 ... 50 mm²) |
| <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 mm²), 2x (0.75 ... 2.5 mm²)<br>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)<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](#)

#### Maritime application



other

[Confirmation](#)

[Confirmation](#)



#### 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=3RA2347-8XB30-1AL2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2347-8XB30-1AL2>

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

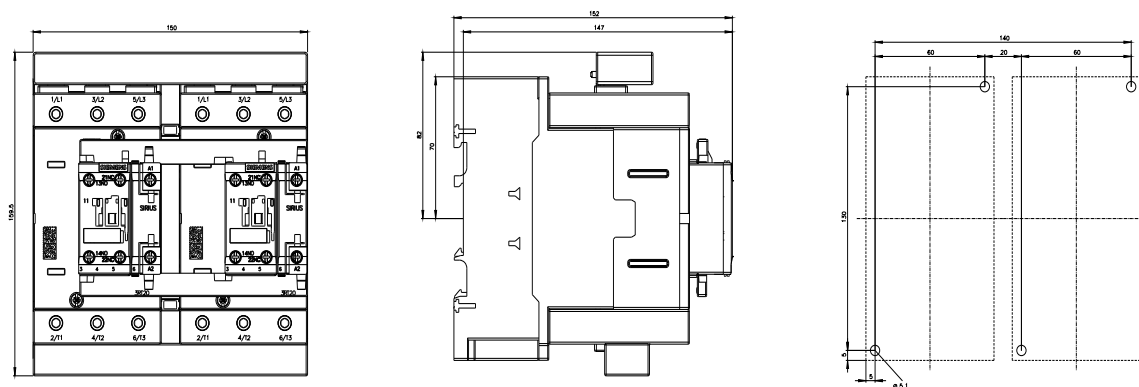
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2347-8XB30-1AL2&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2347-8XB30-1AL2&lang=en)

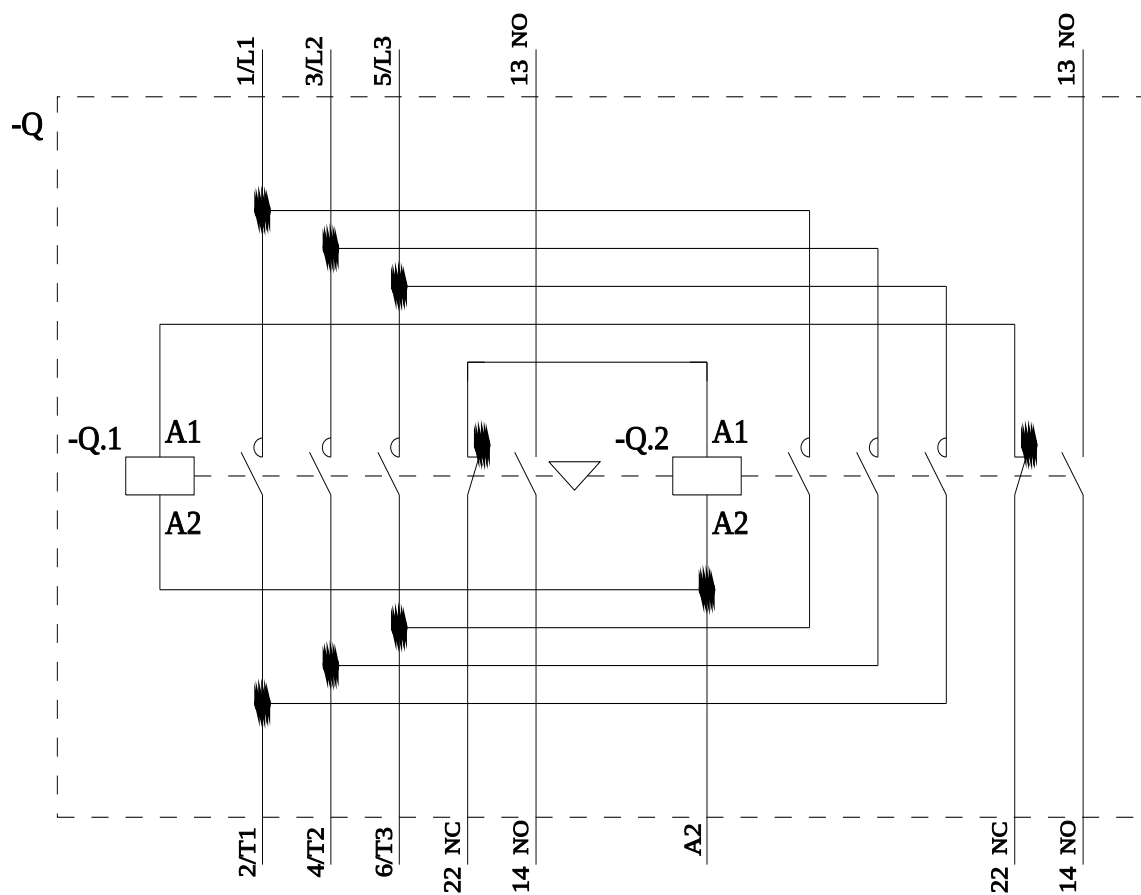
Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2347-8XB30-1AL2>

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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