



Fuseless motor starter Reversing operation 600VAC Size S0 1.4-2A 24V DC screw connection For snapping onto 60 mm busbar systems Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (per contactor)

|                                                                                     |                               |
|-------------------------------------------------------------------------------------|-------------------------------|
| product brand name                                                                  | SIRIUS                        |
| product designation                                                                 | non-fused motor starter 3RA2  |
| design of the product                                                               | reversing starter             |
| manufacturer's article number                                                       |                               |
| • of the supplied contactor                                                         | <a href="#">3RT2023-1BB40</a> |
| • of the supplied circuit-breakers                                                  | <a href="#">3RV2011-1BA10</a> |
| • of the supplied RS assembly kit                                                   | <a href="#">3RA2923-1DB1</a>  |
| • of the supplied busbar adapter                                                    | <a href="#">8US1251-5NT10</a> |
| • of the supplied link module                                                       | <a href="#">3RA2921-1BA00</a> |
| <b>General technical data</b>                                                       |                               |
| size of the circuit-breaker                                                         | S00                           |
| size of load feeder                                                                 | S0                            |
| product extension auxiliary switch                                                  | Yes                           |
| insulation voltage with degree of pollution 3 at AC rated value                     | 690 V                         |
| degree of pollution                                                                 | 3                             |
| surge voltage resistance rated value                                                | 6 kV                          |
| shock resistance according to IEC 60068-2-27                                        | 6g / 11 ms                    |
| mechanical service life (operating cycles) of contactor typical                     | 10 000 000                    |
| type of coordination                                                                | 2                             |
| Net Weight                                                                          | 2.12 kg                       |
| <b>Ambient conditions</b>                                                           |                               |
| ambient temperature                                                                 |                               |
| • during operation                                                                  | -20 ... +60 °C                |
| • during storage                                                                    | -50 ... +80 °C                |
| • during transport                                                                  | -55 ... +80 °C                |
| <b>Main circuit</b>                                                                 |                               |
| number of poles for main current circuit                                            | 3                             |
| design of the switching contact                                                     | electromechanical             |
| adjustable current response value current of the current-dependent overload release | 1.4 ... 2 A                   |
| operating voltage                                                                   |                               |
| • rated value                                                                       | 690 V                         |
| • at AC-3 rated value maximum                                                       | 690 V                         |
| operating frequency rated value                                                     | 50 ... 60 Hz                  |
| operational current at AC-3 at 400 V rated value                                    | 1.9 A                         |
| operating power at AC-3                                                             |                               |
| • at 400 V rated value                                                              | 750 W                         |
| • at 500 V rated value                                                              | 750 W                         |
| • at 690 V rated value                                                              | 1 100 W                       |

|                                                                                                |                                                  |                 |
|------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------|
| Control circuit/ Control                                                                       |                                                  |                 |
| control supply voltage at DC rated value                                                       | 24 V                                             |                 |
| holding power of magnet coil at DC                                                             | 5.9 W                                            |                 |
| Auxiliary circuit                                                                              |                                                  |                 |
| number of NC contacts for auxiliary contacts                                                   | 2                                                |                 |
| number of NO contacts for auxiliary contacts                                                   | 2                                                |                 |
| Protective and monitoring functions                                                            |                                                  |                 |
| trip class                                                                                     | CLASS 10                                         |                 |
| design of the overload release                                                                 | thermal (bimetallic)                             |                 |
| response value current of instantaneous short-circuit trip unit                                | 26 A                                             |                 |
| UL/CSA ratings                                                                                 |                                                  |                 |
| full-load current (FLA) for 3-phase AC motor                                                   |                                                  |                 |
| • at 480 V rated value                                                                         | 1.63 A                                           |                 |
| • at 600 V rated value                                                                         | 1.72 A                                           |                 |
| yielded mechanical performance [hp]                                                            |                                                  |                 |
| • for single-phase AC motor                                                                    |                                                  |                 |
| — at 230 V rated value                                                                         | 0.13 hp                                          |                 |
| • for 3-phase AC motor                                                                         |                                                  |                 |
| — at 460/480 V rated value                                                                     | 0.75 hp                                          |                 |
| — at 575/600 V rated value                                                                     | 1 hp                                             |                 |
| Short-circuit protection                                                                       |                                                  |                 |
| product function short circuit protection                                                      | Yes                                              |                 |
| design of the short-circuit trip                                                               | magnetic                                         |                 |
| conditional short-circuit current (Iq)                                                         |                                                  |                 |
| • at 400 V according to IEC 60947-4-1 rated value                                              | 153 000 A                                        |                 |
| Installation/ mounting/ dimensions                                                             |                                                  |                 |
| mounting position                                                                              | vertical                                         |                 |
| fastening method                                                                               | for snapping onto 60 mm busbar systems           |                 |
| height                                                                                         | 260 mm                                           |                 |
| width                                                                                          | 90 mm                                            |                 |
| depth                                                                                          | 165 mm                                           |                 |
| required spacing                                                                               |                                                  |                 |
| • for grounded parts                                                                           |                                                  |                 |
| — forwards                                                                                     | 10 mm                                            |                 |
| — backwards                                                                                    | 0 mm                                             |                 |
| — upwards                                                                                      | 30 mm                                            |                 |
| — at the side                                                                                  | 9 mm                                             |                 |
| — downwards                                                                                    | 10 mm                                            |                 |
| • for live parts                                                                               |                                                  |                 |
| — forwards                                                                                     | 10 mm                                            |                 |
| — backwards                                                                                    | 0 mm                                             |                 |
| — upwards                                                                                      | 30 mm                                            |                 |
| — downwards                                                                                    | 10 mm                                            |                 |
| — at the side                                                                                  | 9 mm                                             |                 |
| Connections/ Terminals                                                                         |                                                  |                 |
| type of electrical connection for main current circuit                                         | screw-type terminals                             |                 |
| type of connectable conductor cross-sections for main contacts stranded                        | 1 ... 10 mm², 2x (2.5 ... 6 mm²)                 |                 |
| connectable conductor cross-section for main contacts finely stranded with core end processing | 1 ... 6 mm²                                      |                 |
| Safety related data                                                                            |                                                  |                 |
| proportion of dangerous failures with high demand rate according to SN 31920                   | 73 %                                             |                 |
| B10 value with high demand rate according to SN 31920                                          | 1 000 000                                        |                 |
| Electrical Safety                                                                              |                                                  |                 |
| protection class IP on the front according to IEC 60529                                        | IP20                                             |                 |
| touch protection on the front according to IEC 60529                                           | finger-safe, for vertical contact from the front |                 |
| Approvals Certificates                                                                         |                                                  |                 |
| General Product Approval                                                                       | other                                            | Dangerous goods |



[Confirmation](#)

[Transport Information](#)

## Environment

[Environmental Confirmations](#)

## 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=3RA2220-1BD23-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1BD23-0BB4>

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

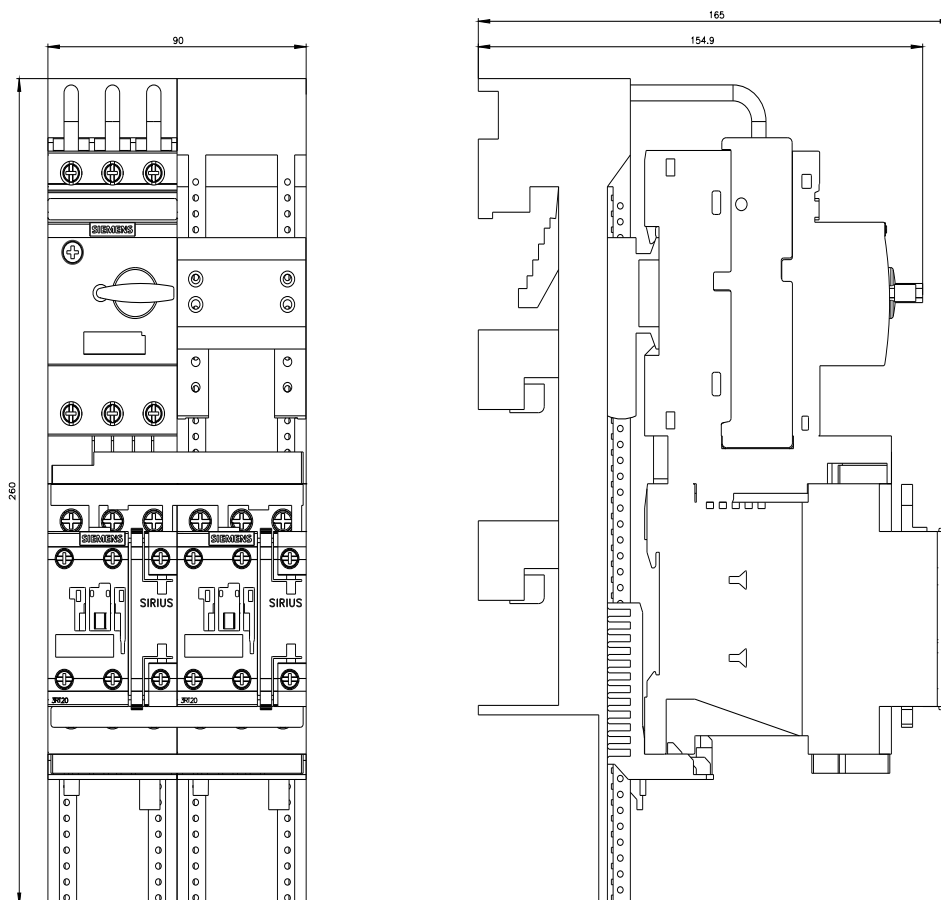
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2220-1BD23-0BB4&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1BD23-0BB4&lang=en)

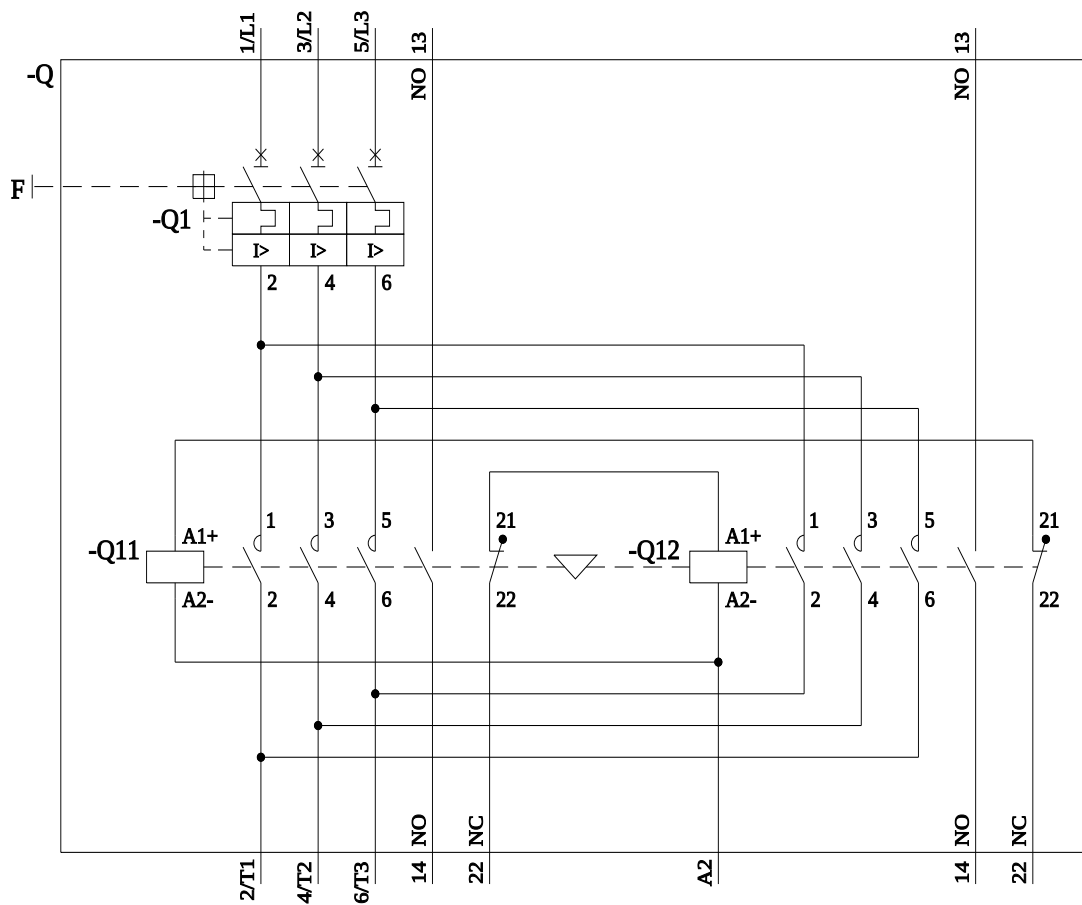
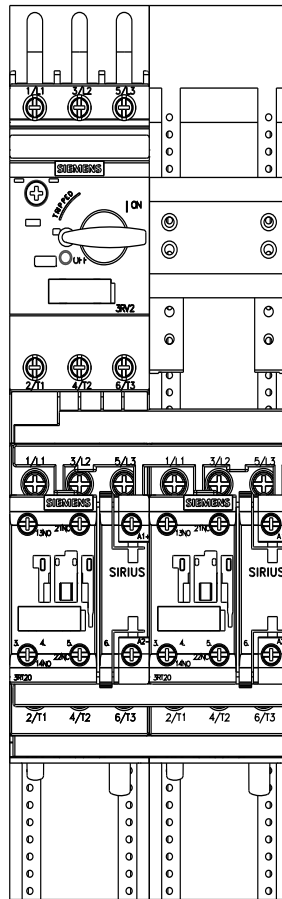
### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1BD23-0BB4>

### 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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