

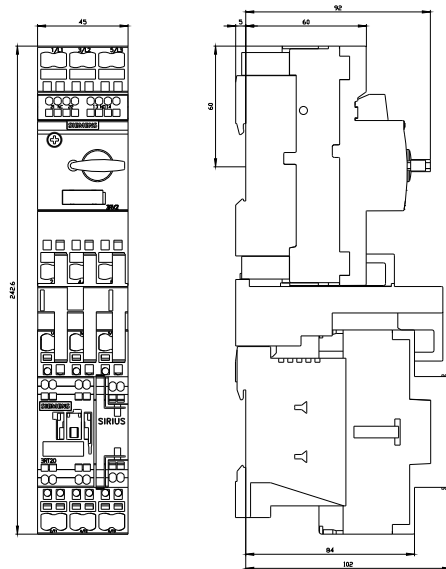
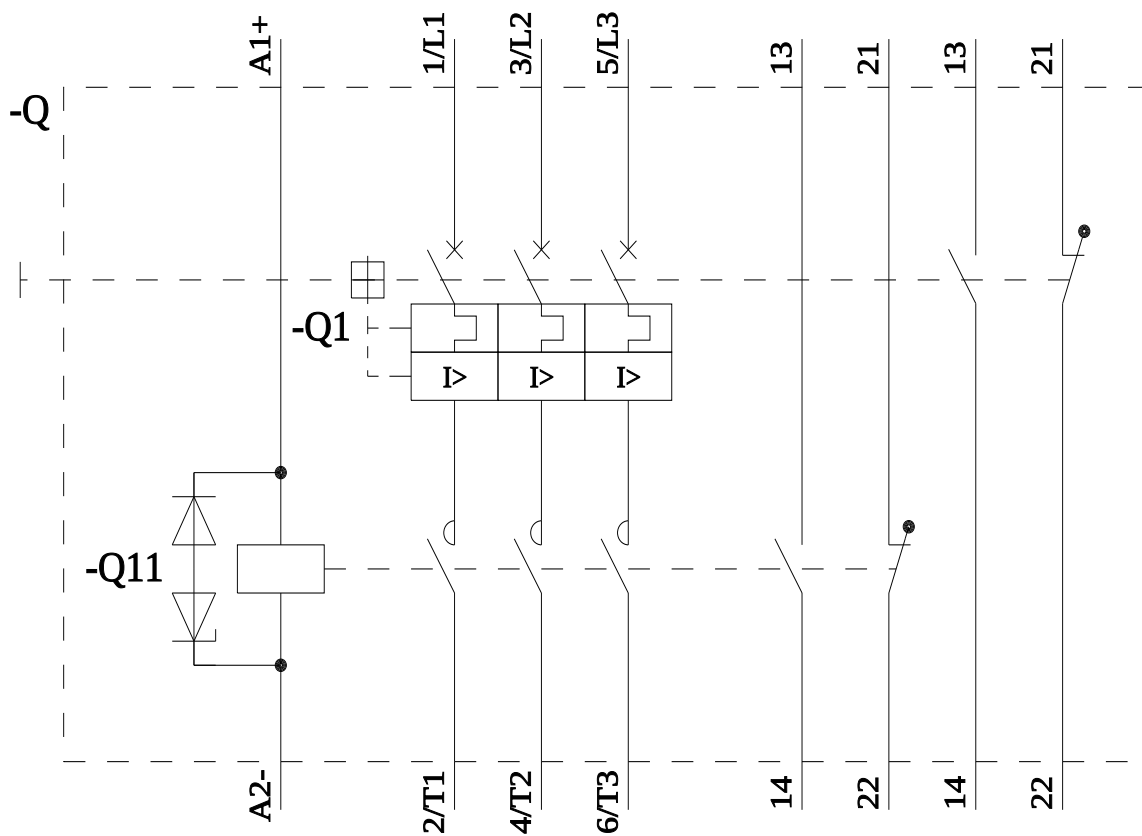


Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 18...25 A 24 V DC  
Spring-type terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, I<sub>q</sub> = 150 kA 1 NO+1 NC (contactor) with diode combination plugged in at the front

|                                                                                     |                                |
|-------------------------------------------------------------------------------------|--------------------------------|
| product brand name                                                                  | SIRIUS                         |
| product designation                                                                 | Direct (on-line) starter       |
| design of the product                                                               | for DIN-rail or screw mounting |
| product type designation                                                            | 3RA21                          |
| manufacturer's article number                                                       |                                |
| • of the supplied contactor                                                         | <a href="#">3RT2027-2FB40</a>  |
| • of the supplied circuit-breakers                                                  | <a href="#">3RV2021-4DA25</a>  |
| • of the supplied link module                                                       | <a href="#">3RA2921-2AA00</a>  |
| <b>General technical data</b>                                                       |                                |
| size of the circuit-breaker                                                         | S0                             |
| size of load feeder                                                                 | S0                             |
| power loss [W] for rated value of the current                                       |                                |
| • at AC in hot operating state per pole                                             | 5.8 W                          |
| • without load current share typical                                                | 5.9 W                          |
| type of calculation of power loss current-dependent                                 | quadratic                      |
| insulation voltage with degree of pollution 3 at AC rated value                     | 690 V                          |
| surge voltage resistance rated value                                                | 6 kV                           |
| degree of protection NEMA rating                                                    | other                          |
| shock resistance according to IEC 60068-2-27                                        | 6 g / 11 ms                    |
| mechanical service life (operating cycles) of contactor typical                     | 10 000 000                     |
| type of coordination                                                                | 2                              |
| reference code according to IEC 81346-2:2019                                        | Q                              |
| Net Weight                                                                          | 1.186 kg                       |
| <b>Ambient conditions</b>                                                           |                                |
| ambient temperature                                                                 |                                |
| • during operation                                                                  | -20 ... +60 °C                 |
| • during storage                                                                    | -50 ... +80 °C                 |
| • during transport                                                                  | -50 ... +80 °C                 |
| temperature compensation                                                            | -20 ... +60 °C                 |
| relative humidity during operation                                                  | 10 ... 95 %                    |
| <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 | 18 ... 25 A                    |
| operating voltage                                                                   |                                |
| • rated value                                                                       | 690 V                          |
| • at AC-3 rated value maximum                                                       | 690 V                          |
| • at AC-3e rated value maximum                                                      | 690 V                          |

|                                                                        |                                                |
|------------------------------------------------------------------------|------------------------------------------------|
| <b>operating frequency rated value</b>                                 | 50 ... 60 Hz                                   |
| <b>operational current</b>                                             |                                                |
| • at AC-3 at 400 V rated value                                         | 25 A                                           |
| • at AC-3e at 400 V rated value                                        | 25 A                                           |
| <b>operating power</b>                                                 |                                                |
| • at AC-3                                                              |                                                |
| — at 400 V rated value                                                 | 11 000 W                                       |
| • at AC-3e                                                             |                                                |
| — at 400 V rated value                                                 | 11 000 W                                       |
| <b>Control circuit/ Control</b>                                        |                                                |
| <b>type of voltage of the control supply voltage</b>                   | DC                                             |
| <b>control supply voltage at DC rated value</b>                        | 24 V                                           |
| <b>holding power of magnet coil at DC</b>                              | 5.9 W                                          |
| <b>Auxiliary circuit</b>                                               |                                                |
| <b>product extension auxiliary switch</b>                              | Yes                                            |
| <b>number of NC contacts for auxiliary contacts</b>                    | 1                                              |
| <b>number of NO contacts for auxiliary contacts</b>                    | 1                                              |
| <b>Protective and monitoring functions</b>                             |                                                |
| <b>trip class</b>                                                      | CLASS 10                                       |
| <b>design of the overload release</b>                                  | thermal (bimetallic)                           |
| <b>response value current of instantaneous short-circuit trip unit</b> | 325 A                                          |
| <b>UL/CSA ratings</b>                                                  |                                                |
| <b>full-load current (FLA) for 3-phase AC motor</b>                    |                                                |
| • at 480 V rated value                                                 | 25 A                                           |
| • at 600 V rated value                                                 | 25 A                                           |
| <b>yielded mechanical performance [hp]</b>                             |                                                |
| • for single-phase AC motor                                            |                                                |
| — at 110/120 V rated value                                             | 2 hp                                           |
| — at 230 V rated value                                                 | 3 hp                                           |
| • for 3-phase AC motor                                                 |                                                |
| — at 200/208 V rated value                                             | 7.5 hp                                         |
| — at 220/230 V rated value                                             | 7.5 hp                                         |
| — at 460/480 V rated value                                             | 20 hp                                          |
| <b>Short-circuit protection</b>                                        |                                                |
| <b>product function short circuit protection</b>                       | Yes                                            |
| <b>design of the short-circuit trip</b>                                | magnetic                                       |
| <b>conditional short-circuit current (I<sub>q</sub>)</b>               |                                                |
| • at 400 V according to IEC 60947-4-1 rated value                      | 150 000 A                                      |
| <b>Installation/ mounting/ dimensions</b>                              |                                                |
| <b>mounting position</b>                                               | vertical                                       |
| <b>fastening method</b>                                                | screw and snap-on mounting onto 35 mm DIN rail |
| <b>height</b>                                                          | 243 mm                                         |
| <b>width</b>                                                           | 45 mm                                          |
| <b>depth</b>                                                           | 107 mm                                         |
| <b>required spacing</b>                                                |                                                |
| • for grounded parts                                                   |                                                |
| — forwards                                                             | 20 mm                                          |
| — backwards                                                            | 0 mm                                           |
| — upwards                                                              | 50 mm                                          |
| — at the side                                                          | 20 mm                                          |
| — downwards                                                            | 10 mm                                          |
| • for live parts                                                       |                                                |
| — forwards                                                             | 20 mm                                          |
| — backwards                                                            | 0 mm                                           |
| — upwards                                                              | 50 mm                                          |
| — downwards                                                            | 10 mm                                          |
| — at the side                                                          | 20 mm                                          |
| <b>Connections/ Terminals</b>                                          |                                                |

|                                                                                                                                                                                                                                                                                                                    |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| type of electrical connection                                                                                                                                                                                                                                                                                      |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| <ul style="list-style-type: none"><li>• for main current circuit</li><li>• for auxiliary and control circuit</li></ul>                                                                                                                                                                                             |                                                                                             | spring-loaded terminals<br>spring-loaded terminals                                          |                                                                                                      |                                                                                             |                                                                                                          |
| Safety related data                                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| product function suitable for safety function                                                                                                                                                                                                                                                                      |                                                                                             | Yes                                                                                         |                                                                                                      |                                                                                             |                                                                                                          |
| Electrical Safety                                                                                                                                                                                                                                                                                                  |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| touch protection on the front according to IEC 60529                                                                                                                                                                                                                                                               |                                                                                             | finger-safe, for vertical contact from the front                                            |                                                                                                      |                                                                                             |                                                                                                          |
| Communication/ Protocol                                                                                                                                                                                                                                                                                            |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| protocol is supported                                                                                                                                                                                                                                                                                              |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| <ul style="list-style-type: none"><li>• PROFINET IO protocol</li><li>• PROFIsafe protocol</li></ul>                                                                                                                                                                                                                |                                                                                             | No<br>No                                                                                    |                                                                                                      |                                                                                             |                                                                                                          |
| protocol is supported AS-Interface protocol                                                                                                                                                                                                                                                                        |                                                                                             | No                                                                                          |                                                                                                      |                                                                                             |                                                                                                          |
| Approvals Certificates                                                                                                                                                                                                                                                                                             |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| Environment                                                                                                                                                                                                                                                                                                        | General Product Approval                                                                    | For use in hazardous locations                                                              |                                                                                                      |                                                                                             |                                                                                                          |
| <a href="#">Environmental Conformations</a>                                                                                                                                                                                                                                                                        | <br>UL     | <br>EAC    | <br>EG-Konf.        | <br>UKCA | <br>ATEX              |
| Test Certificates                                                                                                                                                                                                                                                                                                  |                                                                                             | Maritime application                                                                        |                                                                                                      |                                                                                             |                                                                                                          |
| <a href="#">Type Test Certificates/Test Report</a>                                                                                                                                                                                                                                                                 | <a href="#">Special Test Certificate</a>                                                    | <br>ABS    | <br>BUREAU VERITAS | <br>DNV  | <br>LRS               |
| Maritime application                                                                                                                                                                                                                                                                                               |                                                                                             | other                                                                                       |                                                                                                      |                                                                                             |                                                                                                          |
| <br>PRS                                                                                                                                                                                                                         | <br>RINA | <br>RMRS | <a href="#">Confirmation</a>                                                                         | <a href="#">Confirmation</a>                                                                | <br>产品合格<br>QC PASS |
| Railway                                                                                                                                                                                                                                                                                                            | Dangerous goods                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| <a href="#">Special Test Certificate</a>                                                                                                                                                                                                                                                                           | <a href="#">Transport Information</a>                                                       |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| Further information                                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| Information on the packaging<br><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>                                                                                                                                            |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| Information for data generation and storage<br><a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a>                                                                                                                             |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| Information- and Downloadcenter (Catalogs, Brochures,...)<br><a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>                                                                                                                                                                               |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| Industry Mall (Online ordering system)<br><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2125-4DE27-0FB4">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2125-4DE27-0FB4</a>                                                                                  |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...)<br><a href="https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-4DE27-0FB4">https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-4DE27-0FB4</a>                                                                                        |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)<br><a href="https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2125-4DE27-0FB4&amp;lang=en">https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2125-4DE27-0FB4&amp;lang=en</a> |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| Cax online generator<br><a href="https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RA2125-4DE27-0FB4">https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RA2125-4DE27-0FB4</a>                                                                      |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |
| Characteristic curves<br><a href='https://curves.simaris.siemens.com/curves/&lt;mmp_prod_noCOMP="HAUPT"&gt;&lt;/mmp_prod_no&gt;'>https://curves.simaris.siemens.com/curves/&lt;mmp_prod_noCOMP="HAUPT"&gt;&lt;/mmp_prod_no&gt;</a>                                                                                 |                                                                                             |                                                                                             |                                                                                                      |                                                                                             |                                                                                                          |



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