



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 0.35...0.50 A 24 V DC screw 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 (contactor)

|                                                                                     |                                |
|-------------------------------------------------------------------------------------|--------------------------------|
| 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="#">3RT2015-1BB41</a>  |
| • of the supplied circuit-breakers                                                  | <a href="#">3RV2011-0FA10</a>  |
| • of the supplied link module                                                       | <a href="#">3RA1921-1DA00</a>  |
| <b>General technical data</b>                                                       |                                |
| size of the circuit-breaker                                                         | S00                            |
| size of load feeder                                                                 | S00                            |
| power loss [W] for rated value of the current                                       |                                |
| • at AC in hot operating state per pole                                             | 2 W                            |
| • without load current share typical                                                | 4 W                            |
| 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                                        | 6g / 11 ms                     |
| mechanical service life (operating cycles) of contactor typical                     | 30 000 000                     |
| type of coordination                                                                | 2                              |
| reference code according to IEC 81346-2:2019                                        | Q                              |
| Substance Prohibitance (Date)                                                       | 10/01/2009                     |
| SVHC substance name                                                                 | Lead - 7439-92-1               |
| Weight                                                                              | 0.585 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 | 0.35 ... 0.5 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                                         | 0.5 A                                            |
| • at AC-3e at 400 V rated value                                        | 0.5 A                                            |
| <b>operating power</b>                                                 |                                                  |
| • at AC-3                                                              |                                                  |
| — at 400 V rated value                                                 | 120 W                                            |
| • at AC-3e                                                             |                                                  |
| — at 400 V rated value                                                 | 120 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>                              | 4 W                                              |
| <b>Auxiliary circuit</b>                                               |                                                  |
| <b>product extension auxiliary switch</b>                              | Yes                                              |
| <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> | 6.5 A                                            |
| <b>UL/CSA ratings</b>                                                  |                                                  |
| <b>full-load current (FLA) for 3-phase AC motor</b>                    |                                                  |
| • at 480 V rated value                                                 | 0.5 A                                            |
| • at 600 V rated value                                                 | 0.5 A                                            |
| <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>                                                          | 167 mm                                           |
| <b>width</b>                                                           | 45 mm                                            |
| <b>depth</b>                                                           | 97 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>                                          |                                                  |
| <b>type of electrical connection</b>                                   |                                                  |
| • for main current circuit                                             | screw-type terminals                             |
| • for auxiliary and control circuit                                    | screw-type terminals                             |
| <b>Safety related data</b>                                             |                                                  |
| <b>product function suitable for safety function</b>                   | Yes                                              |
| <b>Electrical Safety</b>                                               |                                                  |
| <b>touch protection on the front according to IEC 60529</b>            | finger-safe, for vertical contact from the front |
| <b>Communication/ Protocol</b>                                         |                                                  |
| <b>protocol is supported</b>                                           |                                                  |
| • PROFINET IO protocol                                                 | No                                               |
| • PROFIsafe protocol                                                   | No                                               |
| <b>protocol is supported AS-Interface protocol</b>                     | No                                               |

## Approvals Certificates

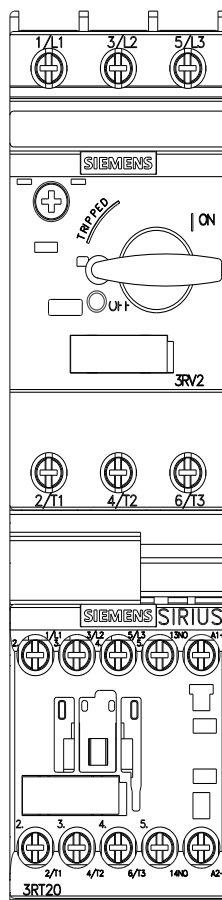
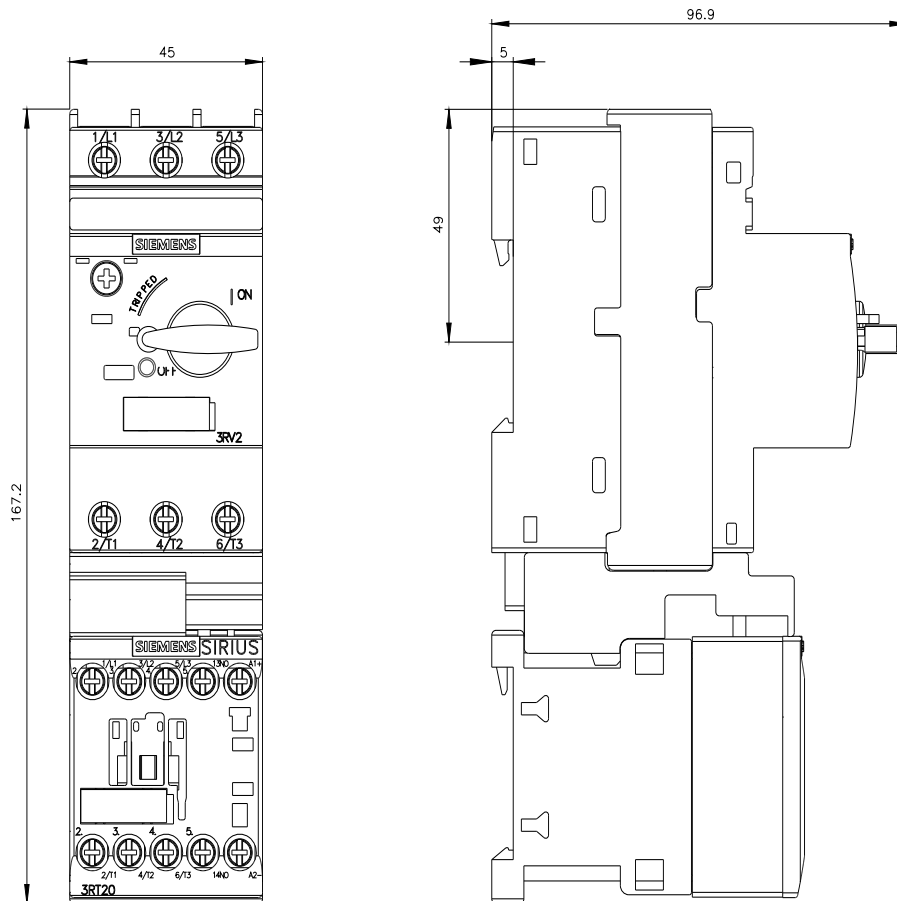
| General Product Approval                                                                      |                                                                                   |                                                                                         |                                                                                   | For use in hazardous locations                                                              | Test Certificates                        |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------|
| <br>EG-Konf. |  | <br>UL |  | <br>ATEX | <a href="#">Special Test Certificate</a> |

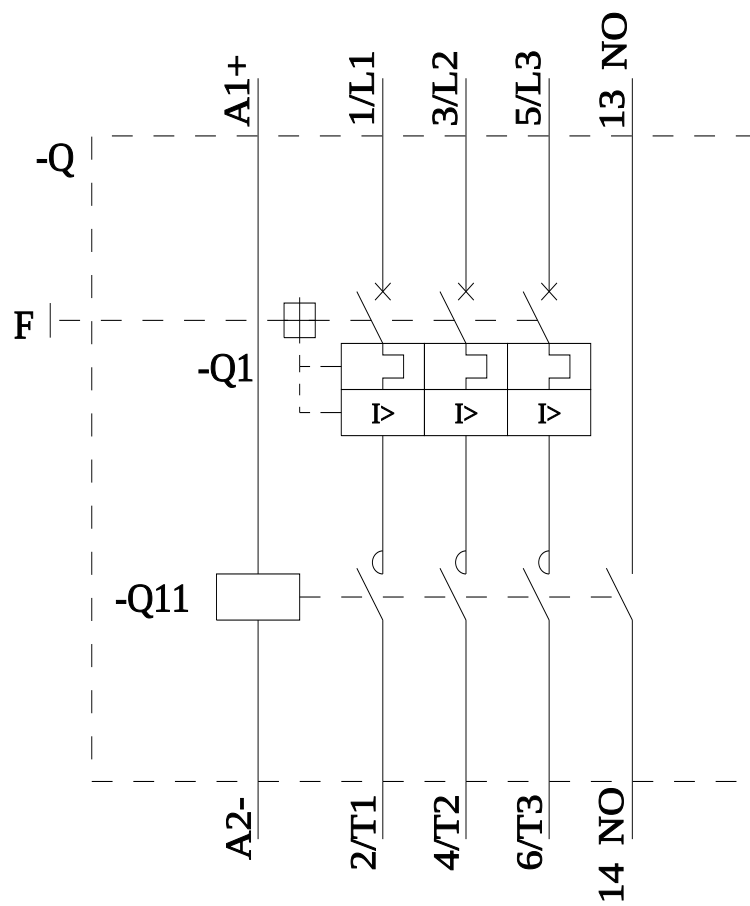
| Test Certificates                                  | Maritime application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Type Test Certificates/Test Report</a> | <div><br/>ABS</div> <div><br/>BUREAU<br/>VERITAS</div> <div><br/>DNV</div> <div><br/>LRS</div> <div><br/>PRS</div> |

| Maritime application                                                                      | other                                                                                     |                                                                                   | Railway                      | Dangerous goods                          |                                       |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------|------------------------------------------|---------------------------------------|
| <br>RINA | <br>RMRS |  | <a href="#">Confirmation</a> | <a href="#">Special Test Certificate</a> | <a href="#">Transport Information</a> |

| Environment                                 |
|---------------------------------------------|
| <a href="#">Environmental Conformations</a> |

| Further information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| 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><br>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><br>Information- and Downloadcenter (Catalogs, Brochures,...)<br><a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a><br>Industry Mall (Online ordering system)<br><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2110-0FA15-1BB4">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2110-0FA15-1BB4</a><br>Cax online generator<br><a href="https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RA2110-0FA15-1BB4">https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RA2110-0FA15-1BB4</a><br>Service&Support (Manuals, Certificates, Characteristics, FAQs,...)<br><a href="https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0FA15-1BB4">https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0FA15-1BB4</a><br>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=3RA2110-0FA15-1BB4&amp;lang=en">https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-0FA15-1BB4&amp;lang=en</a><br>Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current<br><a href="https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0FA15-1BB4/char">https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0FA15-1BB4/char</a><br>Further characteristics (e.g. electrical endurance, switching frequency)<br><a href="https://www.automation.siemens.com/bilddb/index.aspx?view=Search&amp;mlfb=3RA2110-0FA15-1BB4&amp;objecttype=14&amp;gridview=view1">https://www.automation.siemens.com/bilddb/index.aspx?view=Search&amp;mlfb=3RA2110-0FA15-1BB4&amp;objecttype=14&amp;gridview=view1</a> |





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