



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 10...16 A 24 V DC screw terminal for 60 mm busbar systems Type of coordination 1, I<sub>q</sub> = 150 kA 1 NO (contactor)

|                                                                                     |                               |
|-------------------------------------------------------------------------------------|-------------------------------|
| product brand name                                                                  | SIRIUS                        |
| product designation                                                                 | Direct (on-line) starter      |
| design of the product                                                               | for 60 mm busbars             |
| product type designation                                                            | 3RA21                         |
| manufacturer's article number                                                       |                               |
| • of the supplied contactor                                                         | <a href="#">3RT2018-1BB41</a> |
| • of the supplied circuit-breakers                                                  | <a href="#">3RV2011-4AA10</a> |
| • of the supplied busbar adapter                                                    | <a href="#">8US1251-5DS10</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                                             | 4.1 W                         |
| • without load current share typical                                                | 4 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                     | 30 000 000                    |
| type of coordination                                                                | 1                             |
| reference code according to IEC 81346-2:2019                                        | Q                             |
| Substance Prohibitance (day/month/year)                                             | 10/01/2009                    |
| SVHC substance name                                                                 | Lead CAS-No. 7439-92-1        |
| Net Weight                                                                          | 1.12 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 | 10 ... 16 A                   |
| operating voltage                                                                   |                               |

|                                                                                                                                                             |                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>                                                                                             | 690 V                                  |
| <ul style="list-style-type: none"> <li>• at AC-3 rated value maximum</li> </ul>                                                                             | 690 V                                  |
| <ul style="list-style-type: none"> <li>• at AC-3e rated value maximum</li> </ul>                                                                            | 690 V                                  |
| <b>operating frequency rated value</b>                                                                                                                      | 50 ... 60 Hz                           |
| <b>operational current</b>                                                                                                                                  |                                        |
| <ul style="list-style-type: none"> <li>• at AC-3 at 400 V rated value</li> </ul>                                                                            | 16 A                                   |
| <ul style="list-style-type: none"> <li>• at AC-3e at 400 V rated value</li> </ul>                                                                           | 16 A                                   |
| <b>operating power</b>                                                                                                                                      |                                        |
| <ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>                       | 7 500 W                                |
| <ul style="list-style-type: none"> <li>• at AC-3e <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>                      | 7 500 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)                   |
| response value current of instantaneous short-circuit trip unit                                                                                             | 208 A                                  |
| <b>UL/CSA ratings</b>                                                                                                                                       |                                        |
| <b>full-load current (FLA) for 3-phase AC motor</b>                                                                                                         |                                        |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> </ul>                                                                                    | 14 A                                   |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>                                                                                    | 11 A                                   |
| <b>yielded mechanical performance [hp]</b>                                                                                                                  |                                        |
| <ul style="list-style-type: none"> <li>• for single-phase AC motor <ul style="list-style-type: none"> <li>— at 110/120 V rated value</li> </ul> </li> </ul> | 1 hp                                   |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 230 V rated value</li> </ul> </li> </ul>                                | 2 hp                                   |
| <ul style="list-style-type: none"> <li>• for 3-phase AC motor <ul style="list-style-type: none"> <li>— at 200/208 V rated value</li> </ul> </li> </ul>      | 3 hp                                   |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 220/230 V rated value</li> </ul> </li> </ul>                            | 5 hp                                   |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 460/480 V rated value</li> </ul> </li> </ul>                            | 10 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>                                                                                                    |                                        |
| <ul style="list-style-type: none"> <li>• at 400 V according to IEC 60947-4-1 rated value</li> </ul>                                                         | 150 000 A                              |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                   |                                        |
| <b>mounting position</b>                                                                                                                                    | vertical                               |
| <b>fastening method</b>                                                                                                                                     | for snapping onto 60 mm busbar systems |
| <b>height</b>                                                                                                                                               | 203 mm                                 |
| <b>width</b>                                                                                                                                                | 45 mm                                  |
| <b>depth</b>                                                                                                                                                | 155 mm                                 |
| <b>required spacing</b>                                                                                                                                     |                                        |
| <ul style="list-style-type: none"> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> </ul> </li> </ul>                        | 20 mm                                  |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— backwards</li> </ul> </li> </ul>                                           | 0 mm                                   |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— upwards</li> </ul> </li> </ul>                                             | 50 mm                                  |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at the side</li> </ul> </li> </ul>                                         | 20 mm                                  |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— downwards</li> </ul> </li> </ul>                                           | 10 mm                                  |
| <ul style="list-style-type: none"> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> </ul> </li> </ul>                            | 20 mm                                  |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— backwards</li> </ul> </li> </ul>                                           | 0 mm                                   |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— upwards</li> </ul> </li> </ul>                                             | 50 mm                                  |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— downwards</li> </ul> </li> </ul>                                           | 10 mm                                  |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at the side</li> </ul> </li> </ul>                                         | 20 mm                                  |

## Connections/ Terminals

### type of electrical connection

- |                                     |                      |
|-------------------------------------|----------------------|
| • for main current circuit          | screw-type terminals |
| • for auxiliary and control circuit | screw-type 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

- |                        |    |
|------------------------|----|
| • PROFINET IO protocol | No |
| • PROIsafe protocol    | No |

|                                             |    |
|---------------------------------------------|----|
| protocol is supported AS-Interface protocol | No |
|---------------------------------------------|----|

## Approvals Certificates

|             |                          |                                |
|-------------|--------------------------|--------------------------------|
| Environment | General Product Approval | For use in hazardous locations |
|-------------|--------------------------|--------------------------------|

[Environmental Confirmations](#)



## Test Certificates

### Maritime application

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



## Maritime application

### other



[Confirmation](#)

[Confirmation](#)



## Railway

### Dangerous goods

[Special Test Certificate](#)

[Transport Information](#)

## 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=3RA2110-4AD18-1BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-4AD18-1BB4>

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

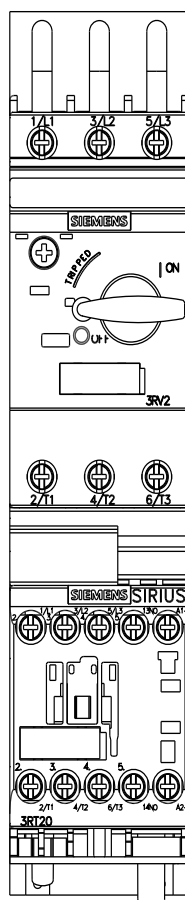
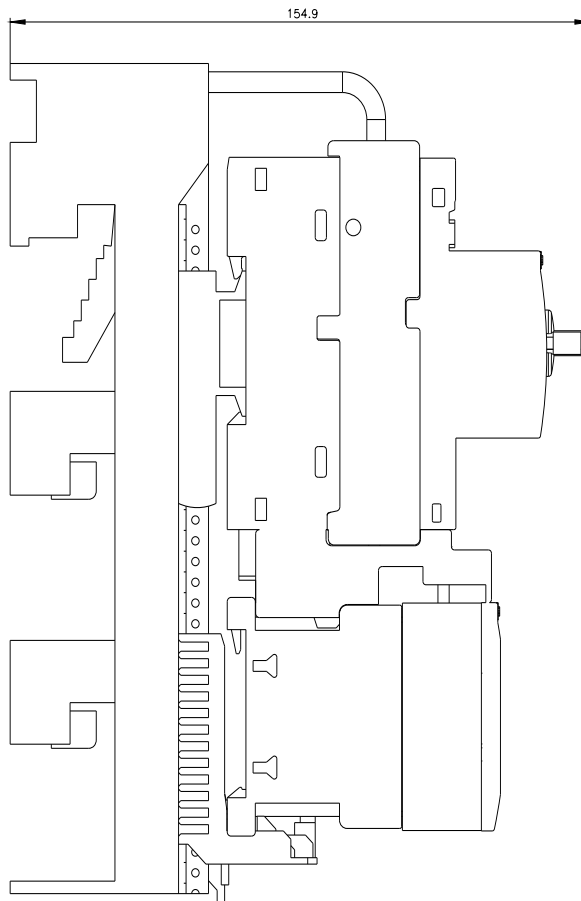
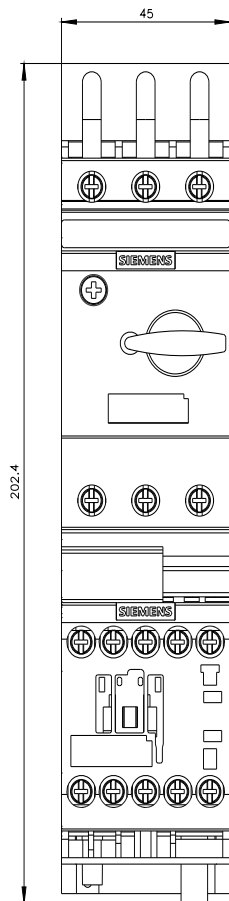
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2110-4AD18-1BB4&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-4AD18-1BB4&lang=en)

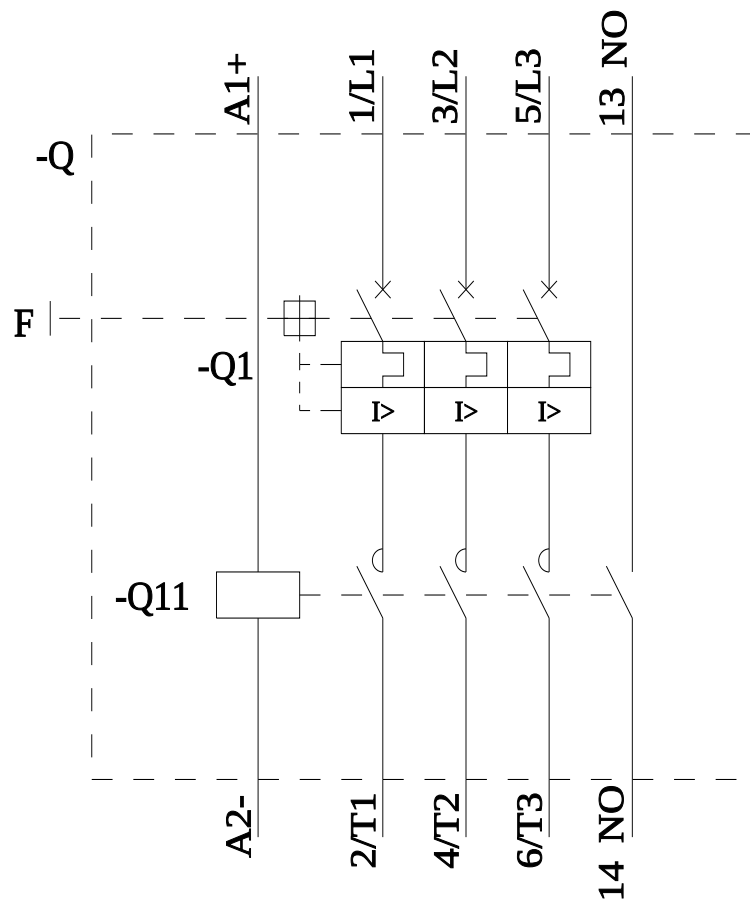
### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-4AD18-1BB4>

### 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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