



Load feeder fuseless, Reversing duty 400 V AC, Size S00 0.35...0.50 A 24 V DC screw terminal for 60 mm busbar systems (also fulfills type of coordination 1) Type of coordination 2, I<sub>q</sub> = 150 kA 1 NC (contactor)

product brand name  
product designation  
design of the product  
product type designation  
manufacturer's article number

- of the supplied contactor
- of the supplied circuit-breakers
- of the supplied RS assembly kit
- of the supplied busbar adapter
- of the supplied link module

SIRIUS  
Reversing starter  
for 60 mm busbars  
3RA22

[3RT2015-1BB42](#)  
[3RV2011-0FA10](#)  
[8US1250-5AS10](#)  
[8US1251-5DS10](#)  
[3RA1921-1DA00](#)

### General technical data

|                                                                   |                   |
|-------------------------------------------------------------------|-------------------|
| size of the circuit-breaker                                       | S00               |
| size of load feeder                                               | S00               |
| 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 (switching cycles) of contactor typical   | 30 000 000        |
| type of assignment                                                | 2                 |
| type of protection according to ATEX directive 2014/34/EU         | Ex II (2) GD      |
| certificate of suitability according to ATEX directive 2014/34/EU | DMT 02 ATEX F 001 |
| Substance Prohibitance (Date)                                     | 10/01/2009        |

### Ambient conditions

|                                    |                |
|------------------------------------|----------------|
| 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 %    |

### Main circuit

|                                                                                     |                   |
|-------------------------------------------------------------------------------------|-------------------|
| 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                                                                    | 0.44 A                                                         |
| • at AC-3e at 400 V rated value                                                                   | 0.44 A                                                         |
| <b>operating power</b>                                                                            |                                                                |
| • at AC-3                                                                                         |                                                                |
| — at 400 V rated value                                                                            | 120 W                                                          |
| • at AC-3e                                                                                        |                                                                |
| — at 400 V rated value                                                                            | 120 kW                                                         |
| <b>Control circuit/ Control</b>                                                                   |                                                                |
| <b>type of voltage of the control supply voltage</b>                                              | DC                                                             |
| <b>control supply voltage at DC</b>                                                               |                                                                |
| • rated value                                                                                     | 24 V                                                           |
| • rated value                                                                                     | 24 ... 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>UL/CSA ratings</b>                                                                             |                                                                |
| <b>full-load current (FLA) for 3-phase AC motor</b>                                               |                                                                |
| • at 480 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>                                                                           | for snapping onto 60 mm busbar systems                         |
| <b>height</b>                                                                                     | 200 mm                                                         |
| <b>width</b>                                                                                      | 90 mm                                                          |
| <b>depth</b>                                                                                      | 156 mm                                                         |
| <b>required spacing</b>                                                                           |                                                                |
| • for grounded parts                                                                              |                                                                |
| — forwards                                                                                        | 32 mm                                                          |
| — backwards                                                                                       | 0 mm                                                           |
| — upwards                                                                                         | 50 mm                                                          |
| — at the side                                                                                     | 10 mm                                                          |
| — downwards                                                                                       | 10 mm                                                          |
| • for live parts                                                                                  |                                                                |
| — forwards                                                                                        | 32 mm                                                          |
| — backwards                                                                                       | 0 mm                                                           |
| — upwards                                                                                         | 50 mm                                                          |
| — downwards                                                                                       | 10 mm                                                          |
| — at the side                                                                                     | 10 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>type of connectable conductor cross-sections</b>                                               |                                                                |
| • for main contacts                                                                               |                                                                |
| — stranded                                                                                        | 0.5 ... 4 mm <sup>2</sup> , 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| • at AWG cables for main contacts                                                                 | 2x (20 ... 16), only for contactor 2x (18 ... 14), 2x 12       |
| connectable conductor cross-section for main contacts<br>finely stranded with core end processing | 0.5 ... 2.5 mm <sup>2</sup>                                    |
| <b>Safety related data</b>                                                                        |                                                                |
| B10 value with high demand rate according to SN 31920                                             | 1 000 000                                                      |
| <b>proportion of dangerous failures</b>                                                           |                                                                |
| • with high demand rate according to SN 31920                                                     | 73 %                                                           |
| <b>touch protection on the front according to IEC 60529</b>                                       | finger-safe, for vertical contact from the front               |

## Communication/ Protocol

### protocol is supported

- PROFINET IO protocol
- PROFIsafe protocol

No  
No  
No

protocol is supported AS-Interface protocol

## Certificates/ approvals

### General Product Approval

For use in hazard-  
ous locations

Declaration of  
Conformity



[Confirmation](#)



### Declaration of Conformity

### Test Certificates

### Marine / Shipping



[Type Test Certifi-  
cates/Test Report](#)

[Special Test Certifi-  
cate](#)



### Marine / Shipping

### other

### Railway



[Confirmation](#)

[Vibration and Shock](#)

## Dangerous Good

[Transport Informa-  
tion](#)

## Further information

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=3RA2210-0FD15-2BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-0FD15-2BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0FD15-2BB4>

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

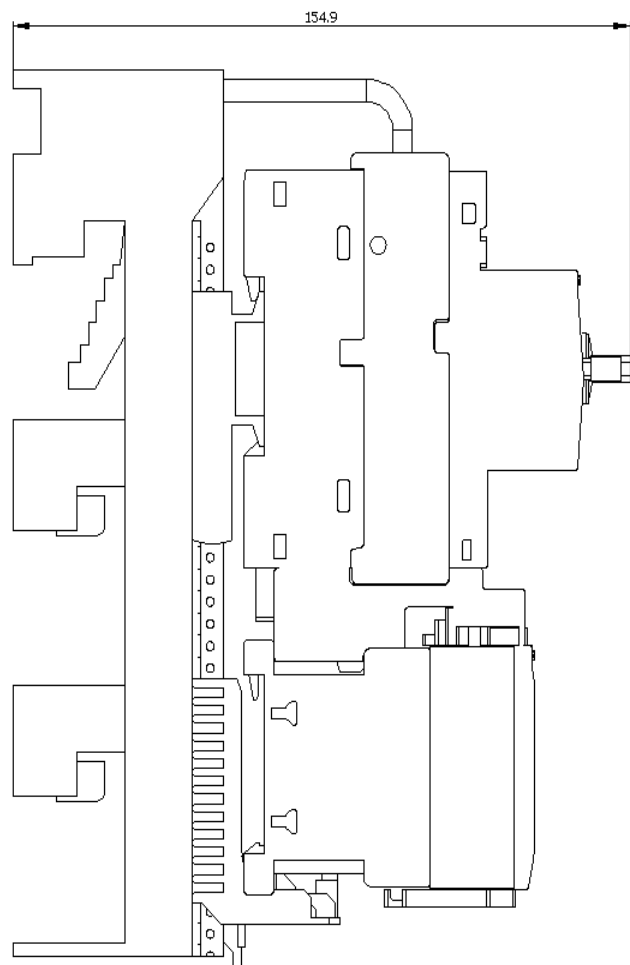
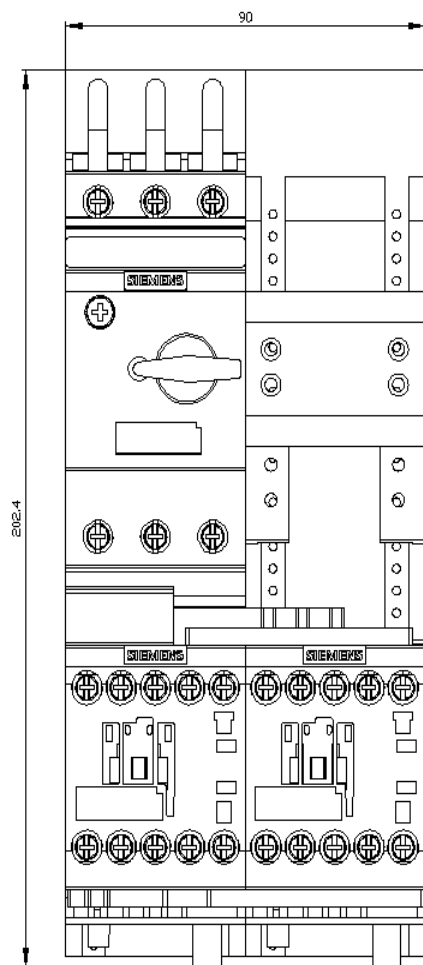
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2210-0FD15-2BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-0FD15-2BB4&lang=en)

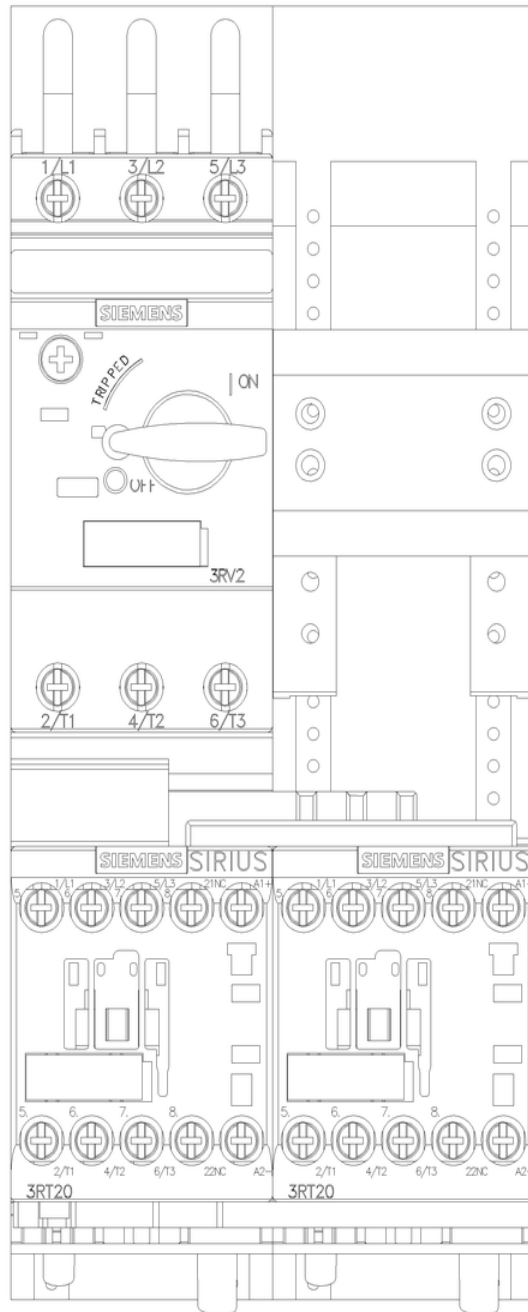
Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current

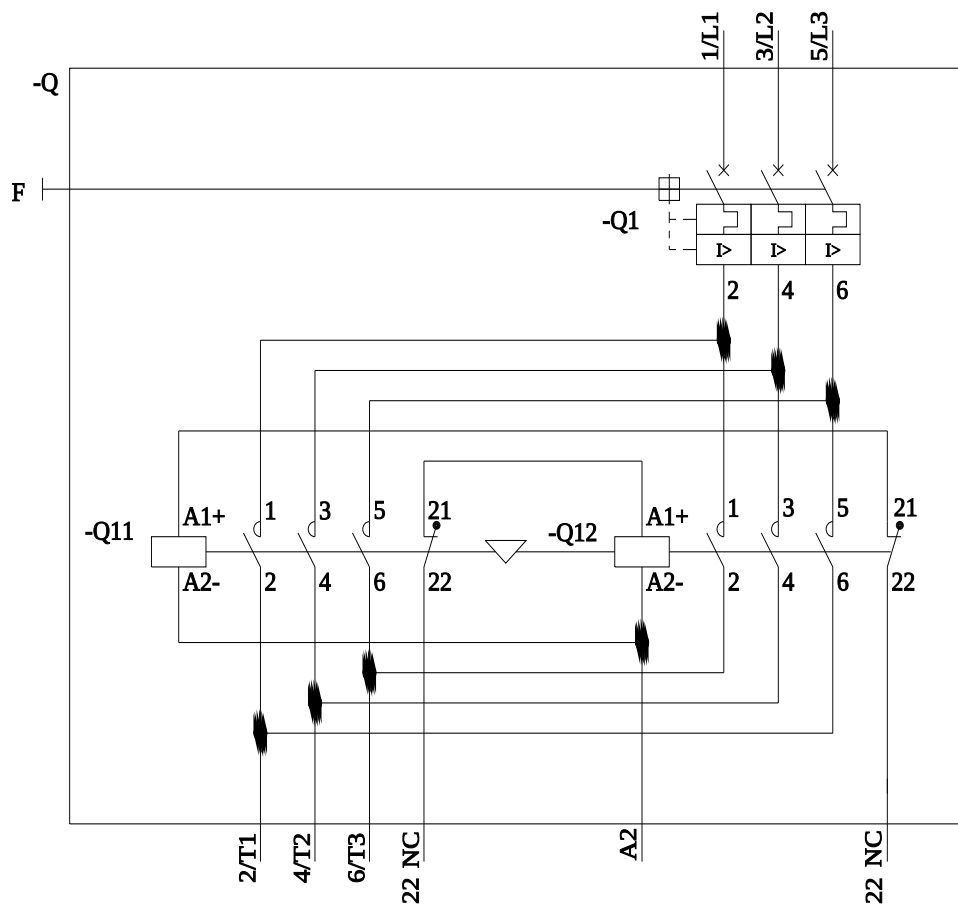
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0FD15-2BB4/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-0FD15-2BB4&objecttype=14&gridview=view1>







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