



Load feeder fuseless, Reversing duty 400 V AC, Size S00 5.50...8.00 A 24 V DC Spring-type terminal for installation on standard mounting rail Type of coordination 1, 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 link module

SIRIUS  
 Reversing starter  
 for standard rail or screw mounting  
 3RA22

[3RT2015-2BB42](#)  
[3RV2011-1HA20](#)  
[3RA2911-2AA00](#)

### 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** 1  
**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** 5.5 ... 8 A  
**operating voltage**  
 • rated value 690 V  
 • at AC-3 rated value maximum 690 V  
 • at AC-3e rated value maximum 690 V  
**operating frequency rated value** 50 ... 60 Hz  
**operational current**

|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at AC-3 at 400 V rated value</li> <li>• at AC-3e at 400 V rated value</li> </ul>                                                                                                                                                                                                                                                                            | 6.5 A                                            |
| <b>operating power</b>                                                                                                                                                                                                                                                                                                                                                                               | 6.5 A                                            |
| <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> <li>• at AC-3e <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>                                                                                                                                                                  | 3 000 W                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 3 000 kW                                         |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                      |                                                  |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                 | DC                                               |
| <b>control supply voltage at DC</b>                                                                                                                                                                                                                                                                                                                                                                  |                                                  |
| <ul style="list-style-type: none"> <li>• rated value</li> <li>• rated value</li> </ul>                                                                                                                                                                                                                                                                                                               | 24 V                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 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>                                                                                                                                                                                                                                                                                                                                                  |                                                  |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                             | 8 A                                              |
| <b>yielded mechanical performance [hp]</b>                                                                                                                                                                                                                                                                                                                                                           |                                                  |
| <ul style="list-style-type: none"> <li>• for 3-phase AC motor <ul style="list-style-type: none"> <li>— at 220/230 V rated value</li> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> </ul> </li> </ul>                                                                                                                                                                       | 2 hp                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 5 hp                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 5 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>                                                                                                                                                                                                                                                                                                                                                                              | screw and snap-on mounting onto 35 mm DIN rail   |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                        | 204 mm                                           |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                         | 90 mm                                            |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                         | 97 mm                                            |
| <b>required spacing</b>                                                                                                                                                                                                                                                                                                                                                                              |                                                  |
| <ul style="list-style-type: none"> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul> | 32 mm                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 0 mm                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 50 mm                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 10 mm                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 10 mm                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 32 mm                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 0 mm                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 50 mm                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 10 mm                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                      | 10 mm                                            |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                        |                                                  |
| <b>type of electrical connection</b>                                                                                                                                                                                                                                                                                                                                                                 |                                                  |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> </ul>                                                                                                                                                                                                                                                                            | spring-loaded terminals                          |
|                                                                                                                                                                                                                                                                                                                                                                                                      | spring-loaded terminals                          |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                                                           |                                                  |
| B10 value with high demand rate according to SN 31920                                                                                                                                                                                                                                                                                                                                                | 1 000 000                                        |
| <b>proportion of dangerous failures</b>                                                                                                                                                                                                                                                                                                                                                              |                                                  |
| <ul style="list-style-type: none"> <li>• with high demand rate according to SN 31920</li> </ul>                                                                                                                                                                                                                                                                                                      | 73 %                                             |
| <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

- PROIsafe protocol

No

protocol is supported AS-Interface protocol

No

## Certificates/ approvals

### General Product Approval

For use in hazardous locations

Declaration of Conformity



[Confirmation](#)



### Declaration of Conformity

#### Test Certificates

#### Marine / Shipping



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



### Marine / Shipping

#### other

#### Railway



[Confirmation](#)

[Vibration and Shock](#)

### Dangerous Good

[Transport Information](#)

## 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=3RA2210-1HE15-2BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-1HE15-2BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1HE15-2BB4>

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

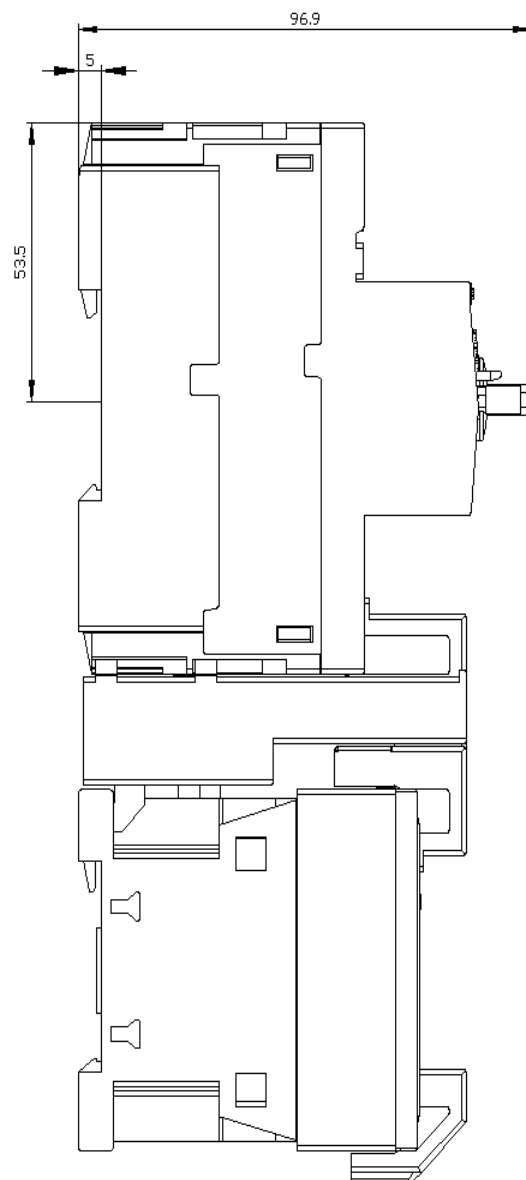
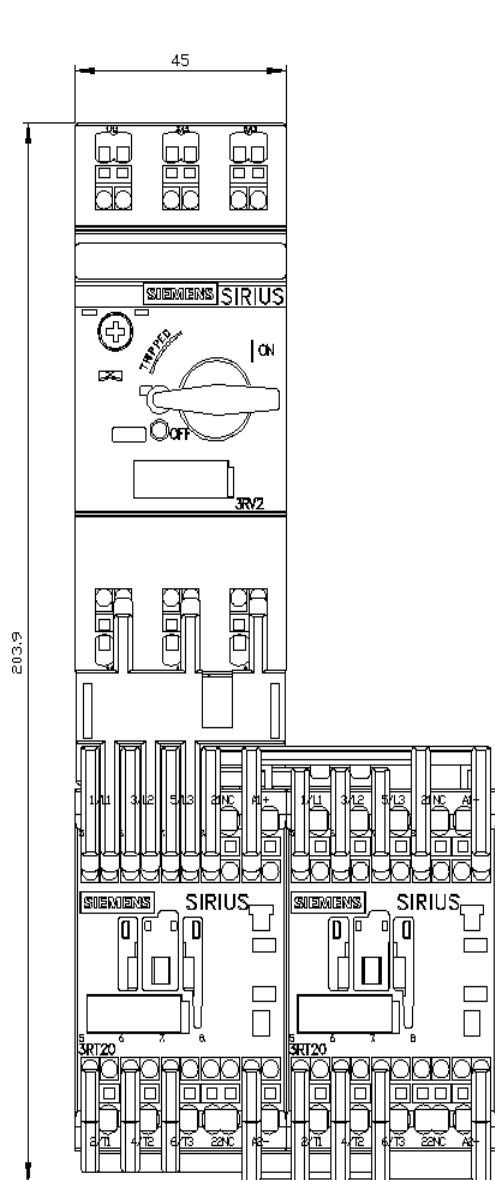
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2210-1HE15-2BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-1HE15-2BB4&lang=en)

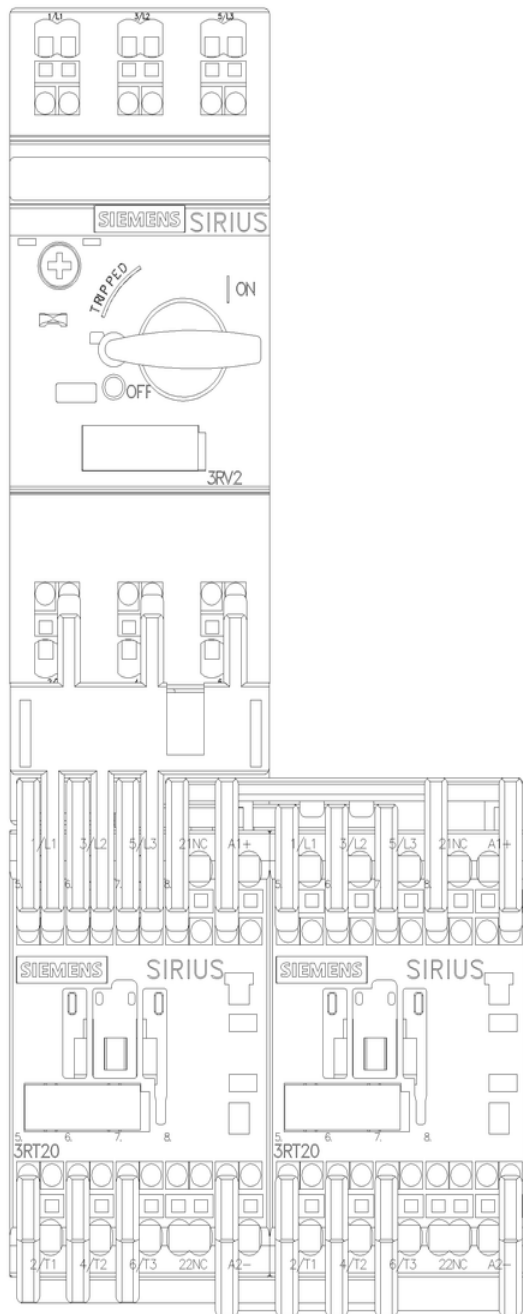
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

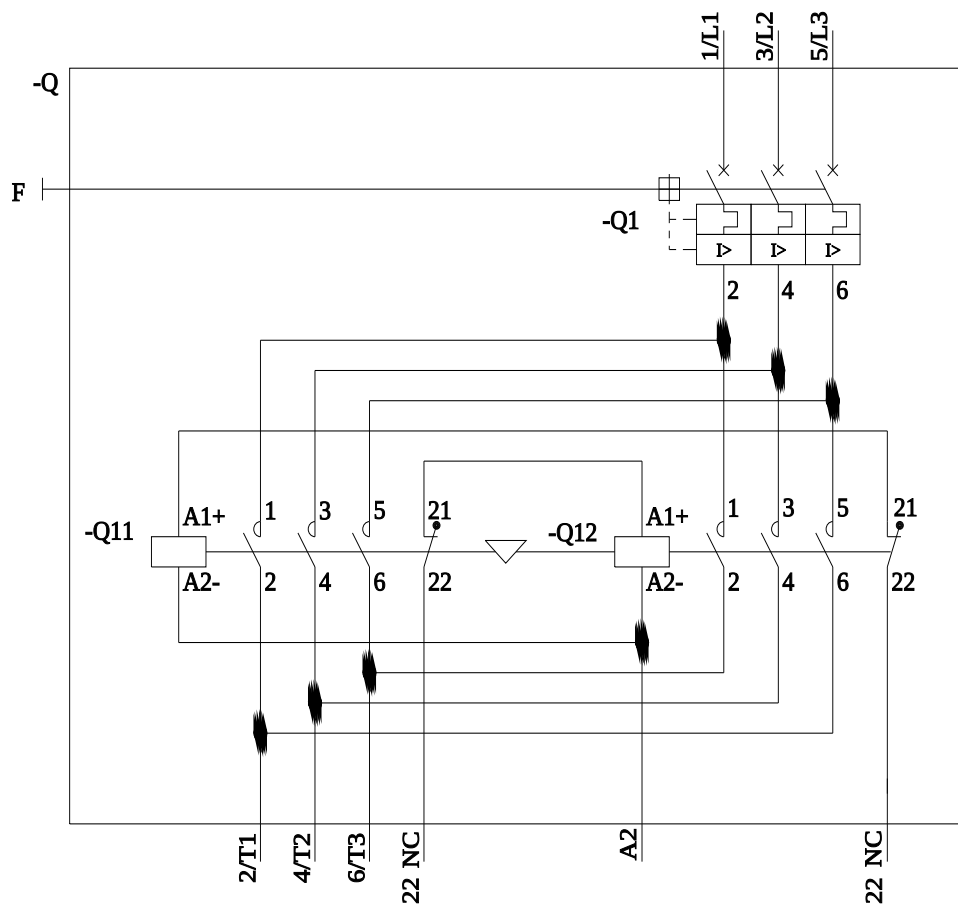
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1HE15-2BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-1HE15-2BB4&objecttype=14&gridview=view1>







last modified:

11/21/2022