



Load feeder fuseless, Reversing duty 400 V AC, Size S00 0.14...0.20 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)

|   |   |
|---|---|
| <b>product brand name</b>   | SIRIUS  |
| <b>product designation</b>  | Reversing starter   |
| <b>design of the product</b>  | for 60 mm busbars   |
| <b>product type designation</b>   | 3RA22   |
| <b>manufacturer's article number</b>  |   |
| <ul style="list-style-type: none"> <li>• of the supplied contactor</li> <li>• of the supplied circuit-breakers</li> <li>• of the supplied RS assembly kit</li> <li>• of the supplied busbar adapter</li> <li>• of the supplied link module</li> </ul> | <a href="#">3RT2015-1BB42</a><br><a href="#">3RV2011-0BA10</a><br><a href="#">8US1250-5AS10</a><br><a href="#">8US1251-5DS10</a><br><a href="#">3RA1921-1DA00</a> |
| <b>General technical data</b>   |   |
| <b>size of the circuit-breaker</b>  | S00   |
| <b>size of load feeder</b>  | S00   |
| insulation voltage with degree of pollution 3 at AC rated value   | 690 V   |
| <b>surge voltage resistance rated value</b>   | 6 kV  |
| <b>degree of protection NEMA rating</b>   | other   |
| shock resistance according to IEC 60068-2-27  | 6g / 11 ms  |
| mechanical service life (switching cycles) of contactor typical   | 30 000 000  |
| <b>type of assignment</b>   | 2   |
| <b>type of protection according to ATEX directive 2014/34/EU</b>  | Ex II (2) GD  |
| certificate of suitability according to ATEX directive 2014/34/EU   | DMT 02 ATEX F 001   |
| <b>Substance Prohibitance (Date)</b>  | 10/01/2009  |
| <b>Ambient conditions</b>   |   |
| <b>ambient temperature</b>  |   |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>  | -20 ... +60 °C<br>-50 ... +80 °C<br>-50 ... +80 °C  |
| <b>temperature compensation</b>   | -20 ... +60 °C  |
| relative humidity during operation  | 10 ... 95 %   |
| <b>Main circuit</b>   |   |
| <b>number of poles for main current circuit</b>   | 3   |
| <b>design of the switching contact</b>  | electromechanical   |
| <b>adjustable current response value current of the current-dependent overload release</b>  | 0.14 ... 0.2 A  |
| <b>operating voltage</b>  |   |
| <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  |
| <b>operating frequency rated value</b>   | 50 ... 60 Hz   |
| operational current at AC-3 at 400 V rated value   | 0.2 A  |
| operating power at AC-3 <ul style="list-style-type: none"> <li>at 400 V rated value</li> </ul>   | 60 W   |
| <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<br>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>   | 0.2 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> <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>  | 200 mm   |
| <b>width</b>   | 90 mm  |
| <b>depth</b>   | 156 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<br>0 mm<br>50 mm<br>10 mm<br>10 mm<br><br>32 mm<br>0 mm<br>50 mm<br>10 mm<br>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>   | screw-type terminals<br>screw-type terminals   |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>for main contacts <ul style="list-style-type: none"> <li>stranded</li> </ul> </li> <li>at AWG cables for main contacts</li> </ul>   | 0.5 ... 4 mm <sup>2</sup> , 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), only for contactor 2x (18 ... 14), 2x 12 |
| connectable conductor cross-section for main contacts 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> <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>   |  |

|  |    |
|--|----|
| protocol is supported  | No |
| <ul style="list-style-type: none"> <li>• PROFINET IO protocol</li> <li>• PROFIsafe protocol</li> </ul> | 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 |
|---------------------------|-------------------|-------------------|



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



|                   |       |         |
|-------------------|-------|---------|
| 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=3RA2210-0BD15-2BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-0BD15-2BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0BD15-2BB4>

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

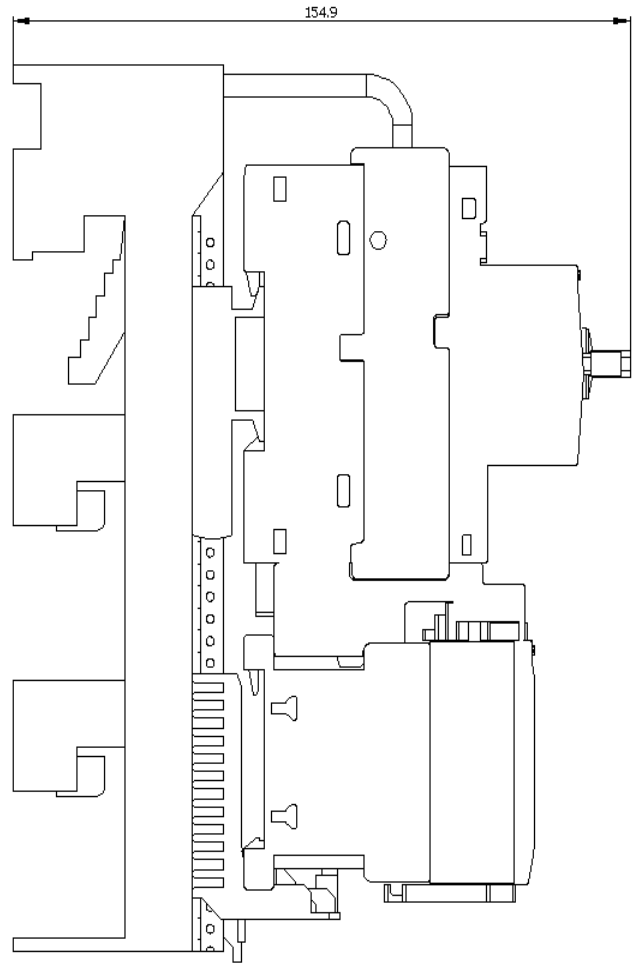
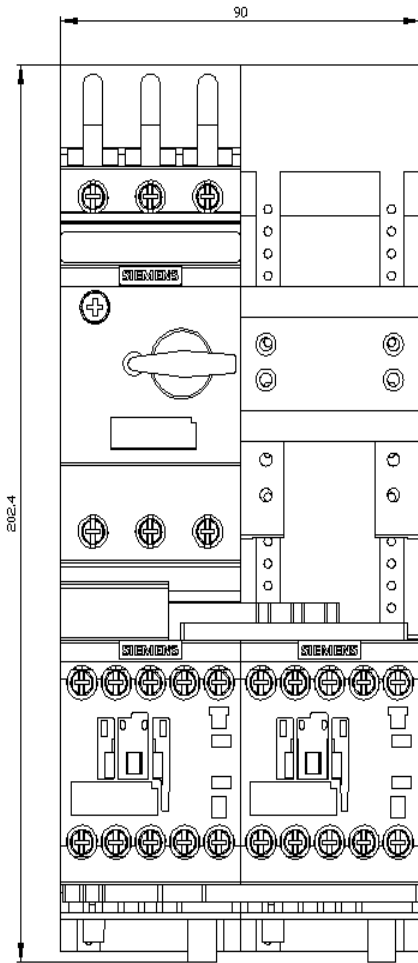
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2210-0BD15-2BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-0BD15-2BB4&lang=en)

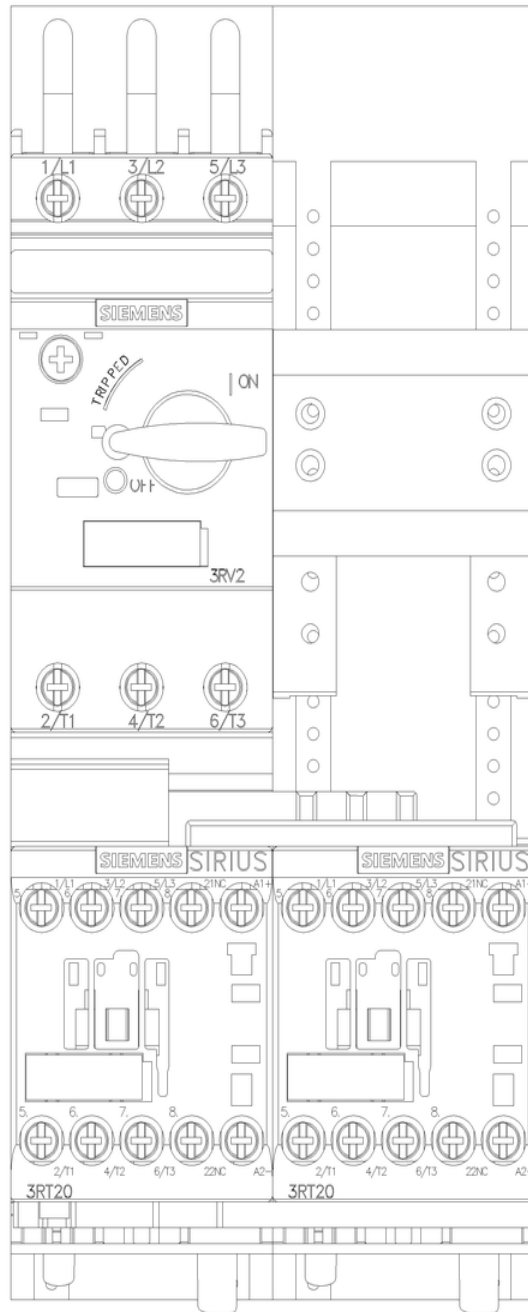
Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0BD15-2BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-0BD15-2BB4&objecttype=14&gridview=view1>







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