

LOAD FEEDER FUSELESS DIRECT START, AC 400V, SZ S00 1.4.  
 . .2A, AC 230V SPRING-LOADED CONNECTION FOR RAIL-  
 MOUNTING, TYPE OF COORDINATION 2, IQ = 150KA (ALSO  
 FULFILLS TYPE OF COORDINATION 1) 1NO (CONTACTOR)



|                                    |                                     |
|------------------------------------|-------------------------------------|
| Product brand name                 | SIRIUS                              |
| Product designation                | Direct (on-line) starter            |
| Design of the product              | for standard rail or screw mounting |
| Product type designation           | 3RA21                               |
| Manufacturer's article number      |                                     |
| • of the supplied contactor        | <a href="#">3RT2015-2AP01</a>       |
| • of the supplied circuit-breakers | <a href="#">3RV2011-1BA20</a>       |
| • of the supplied link module      | <a href="#">3RA2911-2AA00</a>       |

| General technical data                   |             |
|------------------------------------------|-------------|
| Size of the circuit-breaker              | S00         |
| Size of load feeder                      | S00         |
| Insulation voltage                       |             |
| • with degree of pollution 3 rated value | 690 V       |
| Surge voltage resistance rated value     | 6 kV        |
| Protection class IP                      |             |
| • on the front                           | IP20        |
| Type of assignment                       | 2           |
| Protection against electrical shock      | finger-safe |

|                                                                                   |                      |
|-----------------------------------------------------------------------------------|----------------------|
| <b>Ambient conditions</b>                                                         |                      |
| <b>Ambient temperature</b>                                                        |                      |
| • during operation                                                                | -20 ... +60 °C       |
| • during storage                                                                  | -50 ... +80 °C       |
| • during transport                                                                | -50 ... +80 °C       |
| <b>Temperature compensation</b>                                                   | -20 ... +60 °C       |
| <b>Main circuit</b>                                                               |                      |
| <b>Number of poles for main current circuit</b>                                   | 3                    |
| <b>Adjustable pick-up value current of the current-dependent overload release</b> | 1.4 ... 2 A          |
| <b>Operating voltage</b>                                                          |                      |
| • rated value                                                                     | 690 V                |
| • at AC-3 rated value maximum                                                     | 690 V                |
| <b>Operating frequency rated value</b>                                            | 50 ... 60 Hz         |
| <b>Operating current</b>                                                          |                      |
| • at AC-3                                                                         |                      |
| — at 400 V rated value                                                            | 1.9 A                |
| <b>Operating power</b>                                                            |                      |
| • at AC-3                                                                         |                      |
| — at 400 V rated value                                                            | 750 W                |
| <b>Control circuit/ Control</b>                                                   |                      |
| <b>Control supply voltage at AC</b>                                               |                      |
| • at 50 Hz rated value                                                            | 230 V                |
| • at 60 Hz rated value                                                            | 230 V                |
| <b>Apparent holding power of magnet coil at AC</b>                                | 4.2 V·A              |
| <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 three-phase AC motor</b>                           |                      |
| • at 480 V rated value                                                            | 2 A                  |
| <b>Yielded mechanical performance [hp]</b>                                        |                      |
| • for three-phase AC motor                                                        |                      |
| — at 460/480 V rated value                                                        | 0.75 hp              |
| — at 575/600 V rated value                                                        | 1 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 acc. to IEC 60947-4-1 rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                 | 153 000 A                                                    |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |
| <b>Mounting position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       | vertical                                                     |
| <b>Mounting type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           | screw and snap-on mounting onto 35 mm standard mounting rail |
| <b>Height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 197.6 mm                                                     |
| <b>Width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 45 mm                                                        |
| <b>Depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 97.1 mm                                                      |
| <b>Required spacing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              |
| <ul style="list-style-type: none"> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards 20 mm</li> <li>— Backwards 0 mm</li> <li>— upwards 50 mm</li> <li>— at the side 20 mm</li> <li>— downwards 10 mm</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards 20 mm</li> <li>— Backwards 0 mm</li> <li>— upwards 50 mm</li> <li>— downwards 10 mm</li> <li>— at the side 20 mm</li> </ul> </li> </ul> |                                                              |
| <b>Connections/Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                              |
| <b>Type of electrical connection</b>                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                              |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   | spring-loaded terminals                                      |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                              |
| <b>B10 value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              |
| <ul style="list-style-type: none"> <li>• with high demand rate acc. to SN 31920</li> </ul>                                                                                                                                                                                                                                                                                                                                                                     | 1 000 000                                                    |
| <b>Proportion of dangerous failures</b>                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              |
| <ul style="list-style-type: none"> <li>• with high demand rate acc. to SN 31920</li> </ul>                                                                                                                                                                                                                                                                                                                                                                     | 73 %                                                         |
| <b>Certificates/approvals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |

| General Product Approval                                                          |                                                                                   |                                                                                   | For use in hazardous locations                                                    | Declaration of Conformity                                                           |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| CSA                                                                               | UL                                                                                |                                                                                   | ATEX                                                                              | IECEX                                                                               | EG-Konf.                                                                            |

| Test Certificates                                  |                                          | Marine / Shipping                                                                 |                                                                                   |                                                                                     |                                                                                     |
|----------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <a href="#">Type Test Certificates/Test Report</a> | <a href="#">Special Test Certificate</a> |  |  |  |  |
|                                                    |                                          | ABS                                                                               |                                                                                   | LRS                                                                                 | PRS                                                                                 |

| Marine / Shipping                                                                 |                                                                                   |                                                                                   | other                                       | Railway                      |                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------|------------------------------|-------------------------------------|
|  |  |  | <a href="#">Environmental Confirmations</a> | <a href="#">Confirmation</a> | <a href="#">Vibration and Shock</a> |
| RINA                                                                              | RMRS                                                                              | DNV-GL<br>DNVGL.COM/AF                                                            |                                             |                              |                                     |

#### Further information

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2110-1BE15-1AP0>

##### Cax online generator

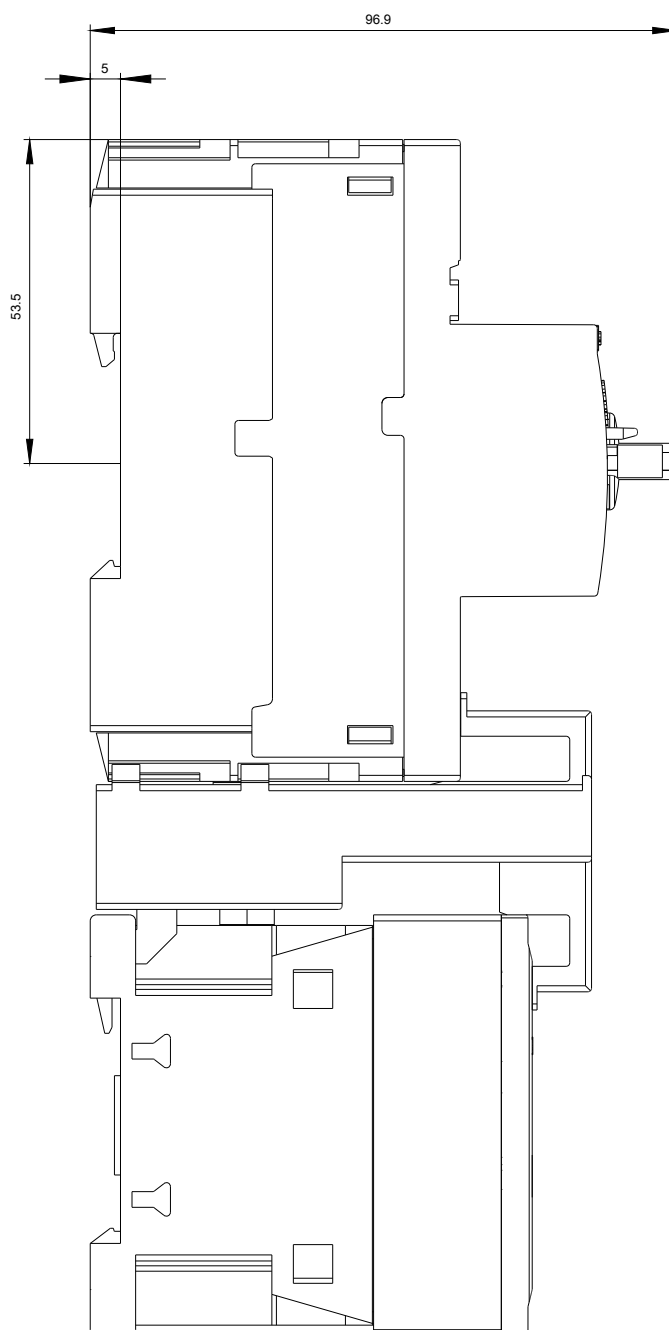
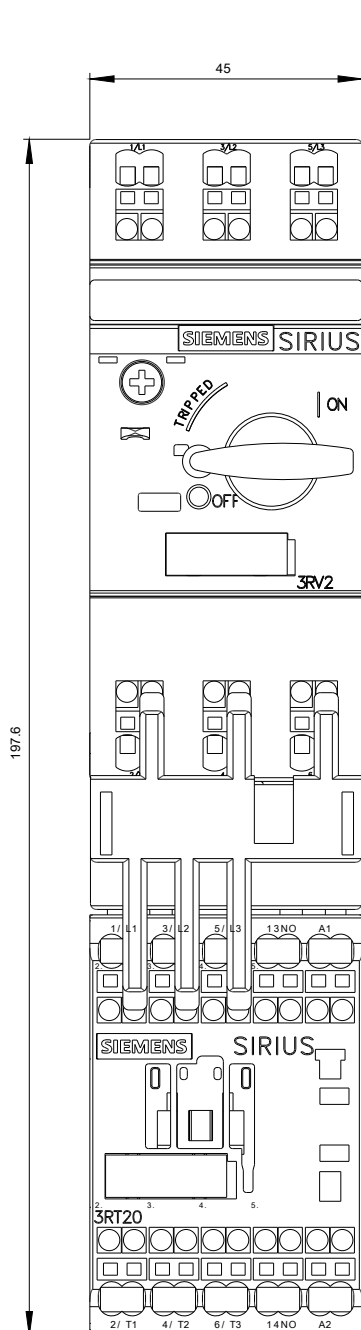
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1BE15-1AP0>

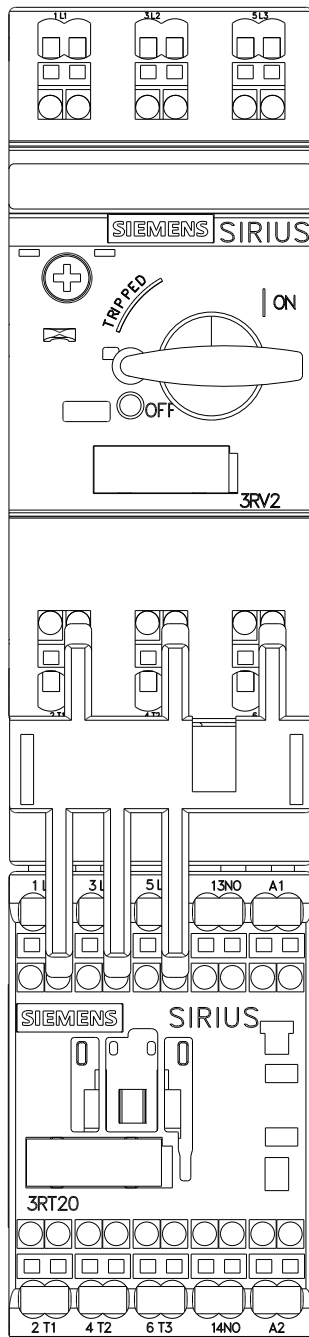
##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

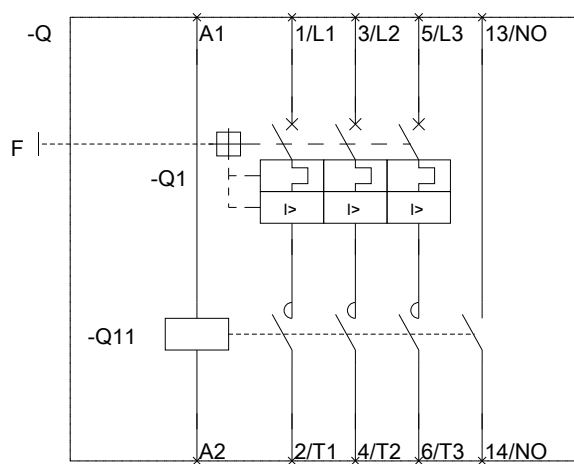
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1BE15-1AP0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2110-1BE15-1AP0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1BE15-1AP0&lang=en)







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