



Fuseless motor starter Direct start 600VAC Size S00 0.14-0.2a 220/240VAC 50/60HZ screw connection For snapping onto 60 mm busbar systems Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO (contactor)

|                                                                                                                                                                                                    |                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                                                                                                                                                                 | SIRIUS                                                                                                                           |
| product designation                                                                                                                                                                                | non-fused motor starter 3RA2                                                                                                     |
| design of the product                                                                                                                                                                              | direct starter                                                                                                                   |
| manufacturer's article number                                                                                                                                                                      |                                                                                                                                  |
| <ul style="list-style-type: none"> <li>of the supplied contactor</li> <li>of the supplied circuit-breakers</li> <li>of the supplied busbar adapter</li> <li>of the supplied link module</li> </ul> | <a href="#">3RT2015-1AP61</a><br><a href="#">3RV2011-0BA10</a><br><a href="#">8US1251-5DS10</a><br><a href="#">3RA1921-1DA00</a> |
| <b>General technical data</b>                                                                                                                                                                      |                                                                                                                                  |
| size of the circuit-breaker                                                                                                                                                                        | S00                                                                                                                              |
| size of load feeder                                                                                                                                                                                | S00                                                                                                                              |
| product extension auxiliary switch                                                                                                                                                                 | Yes                                                                                                                              |
| insulation voltage with degree of pollution 3 at AC rated value                                                                                                                                    | 690 V                                                                                                                            |
| degree of pollution                                                                                                                                                                                | 3                                                                                                                                |
| surge voltage resistance rated value                                                                                                                                                               | 6 kV                                                                                                                             |
| shock resistance according to IEC 60068-2-27                                                                                                                                                       | 6g / 11 ms                                                                                                                       |
| mechanical service life (operating cycles) of contactor typical                                                                                                                                    | 30 000 000                                                                                                                       |
| type of assignment                                                                                                                                                                                 | 2                                                                                                                                |
| Weight                                                                                                                                                                                             | 0.84 kg                                                                                                                          |
| <b>Ambient conditions</b>                                                                                                                                                                          |                                                                                                                                  |
| ambient temperature                                                                                                                                                                                |                                                                                                                                  |
| <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>-55 ... +80 °C                                                                               |
| <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                                                                                                                | 0.14 ... 0.2 A                                                                                                                   |
| operating voltage                                                                                                                                                                                  |                                                                                                                                  |
| <ul style="list-style-type: none"> <li>rated value</li> <li>at AC-3 rated value maximum</li> </ul>                                                                                                 | 690 V<br>690 V                                                                                                                   |
| operating frequency rated value                                                                                                                                                                    | 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> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>                                                                 | 60 W<br>60 W<br>90 W                                                                                                             |
| <b>Control circuit/ Control</b>                                                                                                                                                                    |                                                                                                                                  |
| control supply voltage at AC                                                                                                                                                                       |                                                                                                                                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                              | 220 V<br>187 ... 242 V<br>240 V<br>192 ... 264 V               |
| <b>apparent holding power of magnet coil at AC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4.8 VA                                                         |
| <b>inductive power factor with the holding power of the coil</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.25                                                           |
| <b>Auxiliary circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                |
| <b>number of NO contacts for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                                                              |
| <b>Protective and monitoring functions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                |
| <b>trip class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CLASS 10                                                       |
| <b>design of the overload release</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | thermal (bimetallic)                                           |
| <b>response value current of instantaneous short-circuit trip unit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.6 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 690 V according to IEC 60947-4-1 rated value</li> <li>• at 400 V according to IEC 60947-4-1 rated value</li> <li>• at 500 V according to IEC 60947-4-1 rated value</li> </ul>                                                                                                                                                                                                                                    | 100 000 A<br>153 000 A<br>100 000 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 45 mm                                                          |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 155.1 mm                                                       |
| <b>required spacing</b> <ul style="list-style-type: none"> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— backwards 0 mm</li> <li>— upwards 20 mm</li> <li>— at the side 9 mm</li> <li>— downwards 10 mm</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— backwards 0 mm</li> <li>— upwards 20 mm</li> <li>— downwards 10 mm</li> <li>— at the side 9 mm</li> </ul> </li> </ul>                                    |                                                                |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                |
| <b>type of electrical connection for main current circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         | screw-type terminals                                           |
| <b>type of connectable conductor cross-sections for main contacts stranded</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.5 ... 4 mm <sup>2</sup> , 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| <b>connectable conductor cross-section for main contacts finely stranded with core end processing</b>                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.5 ... 2.5 mm <sup>2</sup>                                    |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                |
| <b>proportion of dangerous failures with high demand rate according to SN 31920</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   | 73 %                                                           |
| <b>B10 value with high demand rate according to SN 31920</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 000 000                                                      |
| <b>Electrical Safety</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                |
| <b>protection class IP on the front according to IEC 60529</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IP20                                                           |
| <b>touch protection on the front according to IEC 60529</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           | finger-safe, for vertical contact from the front               |
| <b>Approvals Certificates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                |
| <div>General Product Approval</div> <div>   <a href="#">Confirmation</a>    </div> |                                                                |
| For use in hazardous locations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |

Test Certificates

Marine / Shipping

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



| Marine / Shipping                                                                        | other                                                                                     | Railway                                                                                   | Environment                                 |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------|
| <br>PRS | <br>RINA | <br>RMRS | <a href="#">Confirmation</a>                |
|                                                                                          |                                                                                           |                                                                                           | <a href="#">Special Test Certificate</a>    |
|                                                                                          |                                                                                           |                                                                                           | <a href="#">Environmental Confirmations</a> |

#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3RA2110-0BD15-1AP6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-0BD15-1AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0BD15-1AP6>

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

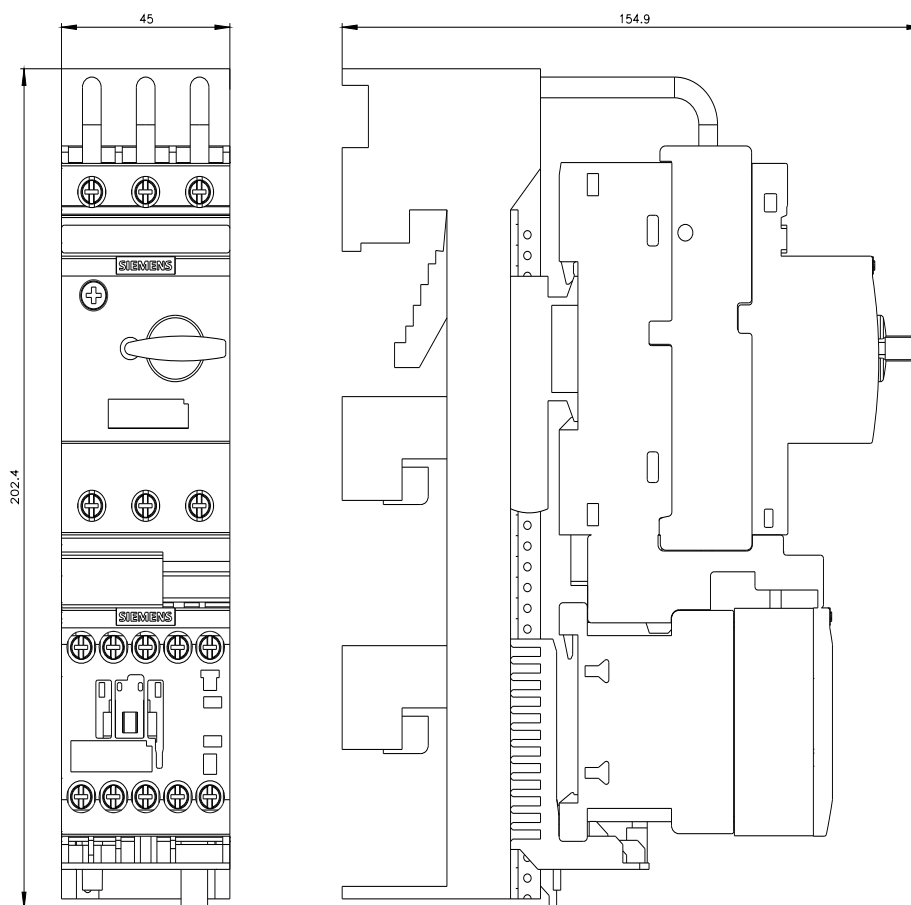
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2110-0BD15-1AP6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-0BD15-1AP6&lang=en)

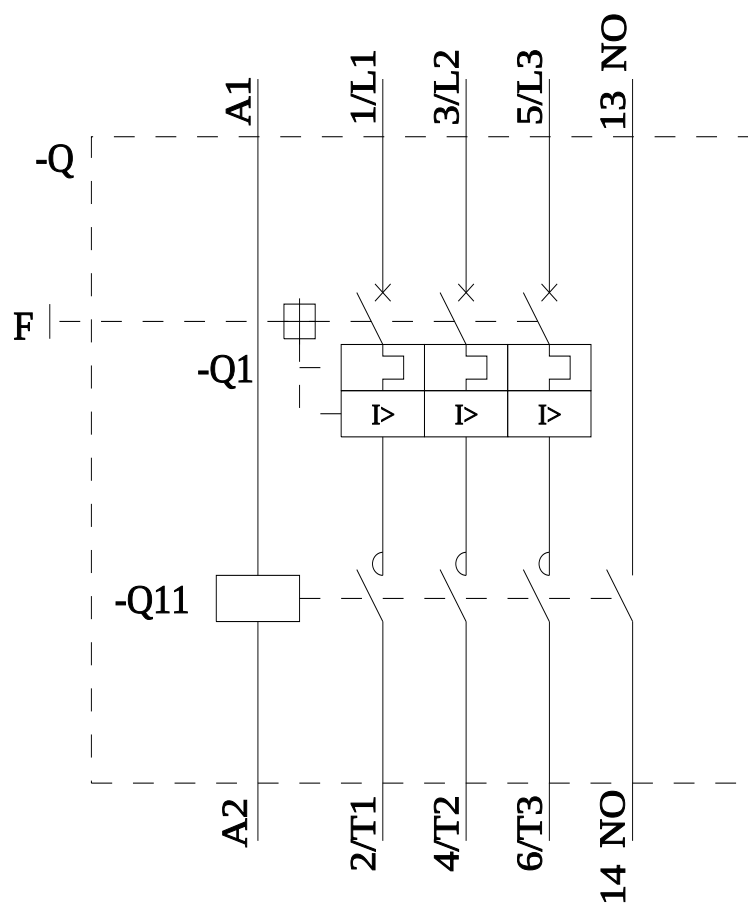
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0BD15-1AP6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-0BD15-1AP6&objecttype=14&gridview=view1>





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