



Fuseless motor starter Direct start 600VAC Size S00 7-10A 220/240VAC 50/60HZ screw connection For snapping onto 60 mm busbar systems Type of coordination 1 1NO (contactor)

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| 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="#">3RT2016-1AP61</a><br><a href="#">3RV2011-1JA10</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 coordination                                                                                                                                                                                       | 1                                                                                                                                |
| Net 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                                                                                                                        | 7 ... 10 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                                                                                                                                                           | 8.5 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> </ul>                                                                                                   | 4 000 W<br>5 500 W                                                                                                               |
| <b>Control circuit/ Control</b>                                                                                                                                                                            |                                                                                                                                  |
| control supply voltage at AC                                                                                                                                                                               |                                                                                                                                  |

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| <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>                                                                                                                                                                                                                                                                                                                               | 130 A                                                                                |
| <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> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                                                                                                             | 7.6 A<br>9 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 200/208 V rated value</li> <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<br>3 hp<br>5 hp<br>7.5 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>                                                                                                                                                                                                                                                                                                  | 153 000 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</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> | 0 mm<br>0 mm<br>20 mm<br>9 mm<br>10 mm<br><br>0 mm<br>0 mm<br>20 mm<br>10 mm<br>9 mm |
| <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                                     |

## Approvals Certificates

| General Product Approval                                                          |                                                                                               | For use in hazardous locations                                                          | Test Certificates                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|  | <br>EG-Konf. | <br>UL | <br>ATEX |
| <a href="#">Type Test Certificates/Test Report</a>                                |                                                                                               |                                                                                         |                                                                                           |

| Test Certificates                        | Maritime application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Special Test Certificate</a> | <div><p>ABS</p><p>BUREAU<br/>VERITAS</p><p>DNV</p><p>LRS</p><p>PRS</p></div> |

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

## Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RA2110-1JD16-1AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1JD16-1AP6>

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

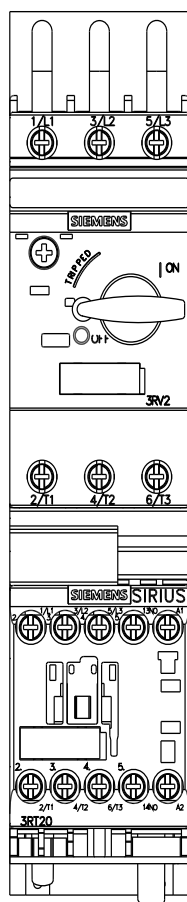
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2110-1JD16-1AP6&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1JD16-1AP6&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1JD16-1AP6>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





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