

Fuseless motor starter Reversing operation 600VAC Size S00 2.2-3.2A  
110/120VAC 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+1NC  
(MSP) 1NC (per contactor)

|                                                                                                                                                                                                                                                       |                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>product brand name</b>                                                                                                                                                                                                                             | SIRIUS                                                                                                                                                           |
| <b>product designation</b>                                                                                                                                                                                                                            | non-fused motor starter 3RA2                                                                                                                                     |
| <b>design of the product</b>                                                                                                                                                                                                                          | reversing starter                                                                                                                                                |
| <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="#">3RT2015-1AK62</a><br><a href="#">3RV2011-1DA15</a><br><a href="#">3RA2913-1DB1</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                                                                                                                                                              |
| product extension auxiliary switch                                                                                                                                                                                                                    | Yes                                                                                                                                                              |
| insulation voltage with degree of pollution 3 at AC rated value                                                                                                                                                                                       | 690 V                                                                                                                                                            |
| <b>degree of pollution</b>                                                                                                                                                                                                                            | 3                                                                                                                                                                |
| <b>surge voltage resistance rated value</b>                                                                                                                                                                                                           | 6 kV                                                                                                                                                             |
| <b>shock resistance according to IEC 60068-2-27</b>                                                                                                                                                                                                   | 6 g / 11 ms                                                                                                                                                      |
| mechanical service life (operating cycles) of contactor typical                                                                                                                                                                                       | 30 000 000                                                                                                                                                       |
| <b>type of coordination</b>                                                                                                                                                                                                                           | 2                                                                                                                                                                |
| <b>Net Weight</b>                                                                                                                                                                                                                                     | 1.31 kg                                                                                                                                                          |
| <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>-55 ... +80 °C                                                                                                               |
| <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>                                                                                                                                                            | 2.2 ... 3.2 A                                                                                                                                                    |
| <b>operating voltage</b>                                                                                                                                                                                                                              |                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> </ul>                                                                                                                                                | 690 V<br>690 V                                                                                                                                                   |
| <b>operating frequency rated value</b>                                                                                                                                                                                                                | 50 ... 60 Hz                                                                                                                                                     |
| operational current at AC-3 at 400 V rated value                                                                                                                                                                                                      | 2.7 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>                                                                                                                                              | 1 100 W<br>1 500 W                                                                                                                                               |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                       |                                                                                                                                                                  |
| <b>control supply voltage at AC</b>                                                                                                                                                                                                                   |                                                                                                                                                                  |
| <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>                                                                              | 110 V<br>93.5 ... 121 V<br>120 V<br>96 ... 132 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 NC contacts for auxiliary contacts</b>                                                                                                                                                                                                   | 2                                                                                                                                                                |

|                                                                                                |                                                  |                                 |
|------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------|
| number of NO contacts for auxiliary contacts                                                   | 1                                                |                                 |
| Protective and monitoring functions                                                            |                                                  |                                 |
| trip class                                                                                     | CLASS 10                                         |                                 |
| design of the overload release                                                                 | thermal (bimetallic)                             |                                 |
| response value current of instantaneous short-circuit trip unit                                | 41.6 A                                           |                                 |
| UL/CSA ratings                                                                                 |                                                  |                                 |
| full-load current (FLA) for 3-phase AC motor                                                   |                                                  |                                 |
| • at 480 V rated value                                                                         | 2.8 A                                            |                                 |
| • at 600 V rated value                                                                         | 3.16 A                                           |                                 |
| yielded mechanical performance [hp]                                                            |                                                  |                                 |
| • for single-phase AC motor                                                                    |                                                  |                                 |
| — at 110/120 V rated value                                                                     | 0.1 hp                                           |                                 |
| — at 230 V rated value                                                                         | 0.25 hp                                          |                                 |
| • for 3-phase AC motor                                                                         |                                                  |                                 |
| — at 200/208 V rated value                                                                     | 0.5 hp                                           |                                 |
| — at 220/230 V rated value                                                                     | 0.75 hp                                          |                                 |
| — at 460/480 V rated value                                                                     | 1.5 hp                                           |                                 |
| — at 575/600 V rated value                                                                     | 2 hp                                             |                                 |
| Short-circuit protection                                                                       |                                                  |                                 |
| product function short circuit protection                                                      | Yes                                              |                                 |
| design of the short-circuit trip                                                               | magnetic                                         |                                 |
| conditional short-circuit current (Iq)                                                         |                                                  |                                 |
| • at 400 V according to IEC 60947-4-1 rated value                                              | 153 000 A                                        |                                 |
| • at 500 V according to IEC 60947-4-1 rated value                                              | 100 000 A                                        |                                 |
| Installation/ mounting/ dimensions                                                             |                                                  |                                 |
| mounting position                                                                              | vertical                                         |                                 |
| fastening method                                                                               | for snapping onto 60 mm busbar systems           |                                 |
| height                                                                                         | 200 mm                                           |                                 |
| width                                                                                          | 90 mm                                            |                                 |
| depth                                                                                          | 155 mm                                           |                                 |
| required spacing                                                                               |                                                  |                                 |
| • for grounded parts                                                                           |                                                  |                                 |
| — forwards                                                                                     | 0 mm                                             |                                 |
| — backwards                                                                                    | 0 mm                                             |                                 |
| — upwards                                                                                      | 20 mm                                            |                                 |
| — at the side                                                                                  | 9 mm                                             |                                 |
| — downwards                                                                                    | 10 mm                                            |                                 |
| • for live parts                                                                               |                                                  |                                 |
| — forwards                                                                                     | 0 mm                                             |                                 |
| — backwards                                                                                    | 0 mm                                             |                                 |
| — upwards                                                                                      | 20 mm                                            |                                 |
| — downwards                                                                                    | 10 mm                                            |                                 |
| — at the side                                                                                  | 9 mm                                             |                                 |
| Connections/ Terminals                                                                         |                                                  |                                 |
| type of electrical connection for main current circuit                                         | screw-type terminals                             |                                 |
| type of connectable conductor cross-sections for main contacts stranded                        | 0.5 ... 4 mm², 2x (0.75 ... 2.5 mm²)             |                                 |
| connectable conductor cross-section for main contacts finely stranded with core end processing | 0.5 ... 2.5 mm²                                  |                                 |
| Safety related data                                                                            |                                                  |                                 |
| proportion of dangerous failures with high demand rate according to SN 31920                   | 73 %                                             |                                 |
| B10 value with high demand rate according to SN 31920                                          | 1 000 000                                        |                                 |
| Electrical Safety                                                                              |                                                  |                                 |
| protection class IP on the front according to IEC 60529                                        | IP20                                             |                                 |
| touch protection on the front according to IEC 60529                                           | finger-safe, for vertical contact from the front |                                 |
| Approvals Certificates                                                                         |                                                  |                                 |
| Environment                                                                                    | General Product Approval                         | For use in hazard-ous locations |

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#### 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=3RA2215-1DD15-2AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2215-1DD15-2AK6>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2215-1DD15-2AK6&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2215-1DD15-2AK6&lang=en)

##### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2215-1DD15-2AK6>

##### Characteristic curves

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

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