

Fuseless motor starter Reversing operation 600VAC Size S00 4.5-6.3A  
110/120VAC 50/60HZ screw connection For snapping onto 60 mm busbar systems  
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>   |                               |
| • of the supplied contactor  | <a href="#">3RT2015-1AK62</a> |
| • of the supplied circuit-breakers   | <a href="#">3RV2011-1GA15</a> |
| • of the supplied RS assembly kit  | <a href="#">3RA2913-1DB1</a>  |
| • of the supplied busbar adapter   | <a href="#">8US1251-5DS10</a> |
| • of the supplied link module  | <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>  | 6g / 11 ms                    |
| mechanical service life (operating cycles) of contactor typical                            | 30 000 000                    |
| <b>type of assignment</b>  | 1                             |
| <b>Weight</b>  | 1.31 kg                       |
| <b>Ambient conditions</b>  |                               |
| <b>ambient temperature</b>   |                               |
| • during operation   | -20 ... +60 °C                |
| • during storage   | -50 ... +80 °C                |
| • during transport   | -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> | 4.5 ... 6.3 A                 |
| <b>operating voltage</b>   |                               |
| • rated value  | 690 V                         |
| • at AC-3 rated value maximum  | 690 V                         |
| <b>operating frequency rated value</b>   | 50 ... 60 Hz                  |
| operational current at AC-3 at 400 V rated value   | 4.9 A                         |
| operating power at AC-3  |                               |
| • at 400 V rated value   | 2 200 W                       |
| • at 500 V rated value   | 3 000 W                       |
| <b>Control circuit/ Control</b>  |                               |
| <b>control supply voltage at AC</b>  |                               |
| • at 50 Hz rated value   | 110 V                         |
| • at 50 Hz rated value   | 93.5 ... 121 V                |
| • at 60 Hz rated value   | 120 V                         |
| • at 60 Hz rated value   | 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                             |
| <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)   |
| response value current of instantaneous short-circuit trip unit                                | 81.9 A   |
| <b>UL/CSA ratings</b>  |  |
| <b>full-load current (FLA) for 3-phase AC motor</b>  |  |
| • at 480 V rated value   | 4.8 A  |
| • at 600 V rated value   | 6.1 A  |
| <b>yielded mechanical performance [hp]</b>   |  |
| • for single-phase AC motor  |  |
| — at 110/120 V rated value   | 0.25 hp  |
| — at 230 V rated value   | 0.5 hp   |
| • for 3-phase AC motor   |  |
| — at 200/208 V rated value   | 1 hp   |
| — at 220/230 V rated value   | 1.5 hp   |
| — at 460/480 V rated value   | 3 hp   |
| — at 575/600 V rated value   | 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>                                       |  |
| • at 400 V according to IEC 60947-4-1 rated value  | 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>   | 90 mm  |
| <b>depth</b>   | 155.1 mm   |
| <b>required spacing</b>  |  |
| • 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   |
| <b>Connections/ Terminals</b>  |  |
| type of electrical connection for main current circuit   | screw-type terminals   |
| type of connectable conductor cross-sections for main contacts stranded                        | 0.5 ... 4 mm <sup>2</sup> , 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| connectable conductor cross-section for main contacts finely stranded with core end processing | 0.5 ... 2.5 mm <sup>2</sup>                                    |
| <b>Safety related data</b>   |  |
| proportion of dangerous failures with high demand rate according to SN 31920                   | 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>  |  |
| General Product Approval   | For use in hazardous locations                                 |



[Confirmation](#)



| Test Certificates   |   | Marine / Shipping   |   |   |   |
|---|---|---|---|---|---|
| <a href="#">Special Test Certificate</a>  | <a href="#">Type Test Certificates/Test Report</a>                                |  |  |  |  |
| Marine / Shipping   |   | other   |   | Railway   | Environment   |
|  |  |  | <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=3RA2215-1GD15-2AK6>

Cax online generator

<http://support.automation.siemens.com/VW/CAXorder/default.aspx?lang=en&mlfb=3RA2215-1GD15-2AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2215-1GD15-2AK6>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2215-1GD15-2AK6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2215-1GD15-2AK6&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2215-1GD15-2AK6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2215-1GD15-2AK6&objecttype=14&gridview=view1>

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