



Fuseless motor starter Reversing operation 600VAC Size S00 11-16Amp  
24V DC screw connection For screw mounting Or 35 mm rail-mounting  
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 link module</li> </ul> | <a href="#">3RT2018-1BB42</a><br><a href="#">3RV2011-4AA15</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  |
| shock resistance according to IEC 60068-2-27   | 6g / 11 ms  |
| mechanical service life (switching cycles) of contactor typical  | 30 000 000  |
| <b>type of assignment</b>  | 1   |
| <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>   | 11 ... 16 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   | 15.5 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>   | 7 500 W<br>7 500 W  |
| <b>Control circuit/ Control</b>  |   |
| <b>control supply voltage at DC</b>  |   |
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>  | 24 V  |

|  |   |
|--|---|
| holding power of magnet coil at DC   | 4 W   |
| <b>Auxiliary circuit</b>   |   |
| number of NC contacts for auxiliary contacts   | 2   |
| number of NO contacts for auxiliary contacts   | 1   |
| <b>Protective and monitoring functions</b>   |   |
| trip class   | CLASS 10  |
| design of the overload release   | thermal (bimetallic)  |
| response value current of instantaneous short-circuit trip unit                                | 208 A   |
| <b>UL/CSA ratings</b>  |   |
| <b>full-load current (FLA) for 3-phase AC motor</b>  |   |
| • at 480 V rated value   | 14 A  |
| • at 600 V rated value   | 11 A  |
| <b>yielded mechanical performance [hp]</b>   |   |
| • for single-phase AC motor  |   |
| — at 110/120 V rated value   | 1 hp  |
| — at 230 V rated value   | 2 hp  |
| • for 3-phase AC motor   |   |
| — at 200/208 V rated value   | 3 hp  |
| — at 220/230 V rated value   | 5 hp  |
| — at 460/480 V rated value   | 10 hp   |
| — at 575/600 V rated value   | 10 hp   |
| <b>Short-circuit protection</b>  |   |
| product function short circuit protection  | Yes   |
| design of the short-circuit trip   | magnetic  |
| conditional short-circuit current (I <sub>q</sub> )  |   |
| • at 400 V according to IEC 60947-4-1 rated value  | 153 000 A   |
| <b>Installation/ mounting/ dimensions</b>  |   |
| mounting position  | vertical  |
| fastening method   | Snap-mounted to DIN rail or screw-mounted with additional push-in lug |
| height   | 170 mm  |
| width  | 90 mm   |
| depth  | 97.1 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  |
| <b>type of connectable conductor cross-sections</b>  |   |
| • for main contacts stranded   | 0.5 ... 4 mm <sup>2</sup> , 2x (0.75 ... 2.5 mm <sup>2</sup> )        |
| • at AWG cables for main contacts  | 2x (20 ... 16), only for contactor 2x (18 ... 14), 2x 12              |
| 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>   |   |
| B10 value with high demand rate according to SN 31920  | 1 000 000   |
| proportion of dangerous failures with high demand rate according to SN 31920                   | 73 %  |
| <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                      |

## Certificates/ approvals

|                          |                                |                           |
|--------------------------|--------------------------------|---------------------------|
| General Product Approval | For use in hazardous locations | Declaration of Conformity |
|--------------------------|--------------------------------|---------------------------|



[Confirmation](#)



|                           |                   |                   |
|---------------------------|-------------------|-------------------|
| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



|                   |       |         |
|-------------------|-------|---------|
| Marine / Shipping | other | Railway |
|-------------------|-------|---------|



[Confirmation](#)

[Vibration and Shock](#)

## Dangerous Good

[Transport Information](#)

## Further information

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=3RA2215-4AA18-2BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2215-4AA18-2BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2215-4AA18-2BB4>

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

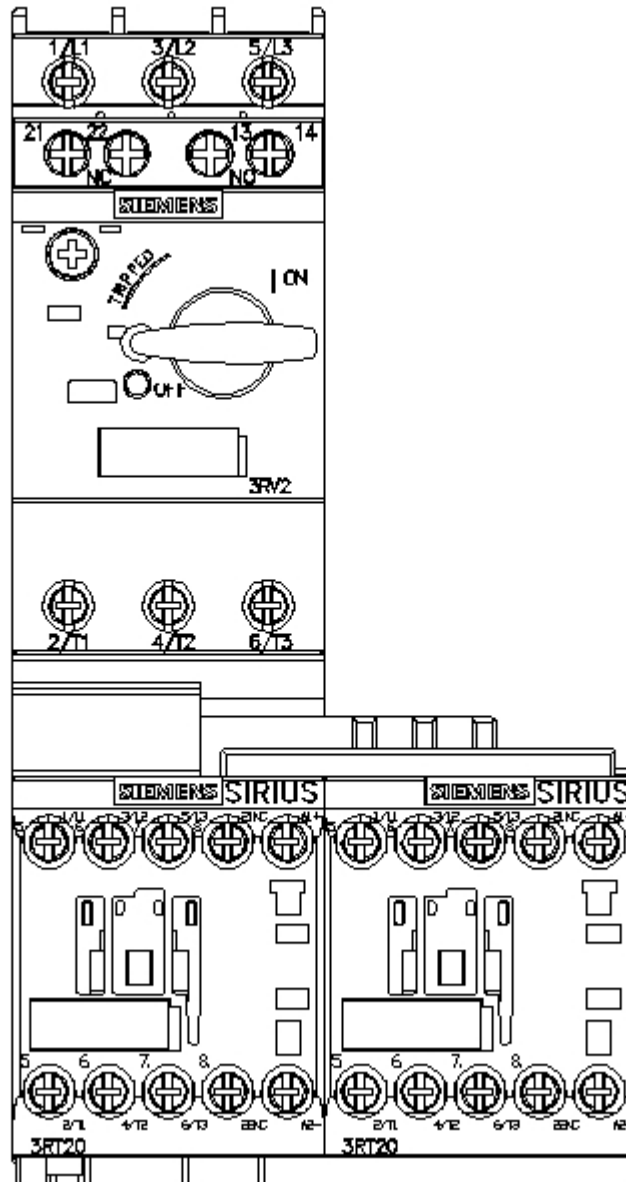
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2215-4AA18-2BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2215-4AA18-2BB4&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2215-4AA18-2BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2215-4AA18-2BB4&objecttype=14&gridview=view1>



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