



Fuseless motor starter Direct start 600VAC Size S00 0.7-1A 220/240VAC 50/60HZ screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO (contactor)

|  |   |
|--|---|
| <b>product brand name</b>  | SIRIUS  |
| <b>product designation</b>   | non-fused motor starter 3RA2  |
| <b>design of the product</b>   | direct 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="#">3RT2015-1AP61</a><br><a href="#">3RV2011-0JA10</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>  | 2   |
| <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>   | 0.7 ... 1 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   | 0.85 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>                         | 250 W<br>370 W<br>550 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>   | 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 NC contacts for auxiliary contacts</b>  | 0  |
| <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  | 13 A   |
| <b>UL/CSA ratings</b>  |  |
| <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 575/600 V rated value</li> </ul> </li> </ul>   | 0.5 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 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>  | Snap-mounted to DIN rail or screw-mounted with additional push-in lug  |
| <b>height</b>  | 167.2 mm   |
| <b>width</b>   | 45 mm  |
| <b>depth</b>   | 97.1 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>  |  |
| type of electrical connection for main current circuit   | screw-type terminals   |
| <b>type of connectable conductor cross-sections</b>  |  |
| <ul style="list-style-type: none"> <li>• for main contacts stranded</li> <li>• at AWG cables for main contacts</li> </ul>  | 0.5 ... 4 mm <sup>2</sup> , 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>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   |
| <b>Certificates/ approvals</b>   |  |

|                          |                                |                           |
|--------------------------|--------------------------------|---------------------------|
| 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 |
|-------------------|-------|---------|



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[Vibration and Shock](#)

#### 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=3RA2110-0JA15-1AP6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-0JA15-1AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0JA15-1AP6>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2110-0JA15-1AP6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-0JA15-1AP6&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0JA15-1AP6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-0JA15-1AP6&objecttype=14&gridview=view1>

last modified:

12/15/2020