



Fuseless motor starter Direct start 600VAC Size S0 11-16Amp 220/240VAC 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 (contactor)

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| <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 busbar adapter</li> <li>• of the supplied link module</li> </ul> | <a href="#">3RT2026-1AP60</a><br><a href="#">3RV2021-4AA10</a><br><a href="#">8US1251-5NT10</a><br><a href="#">3RA2921-1AA00</a> |
| <b>General technical data</b>  |  |
| <b>size of the circuit-breaker</b>   | S0   |
| <b>size of load feeder</b>   | S0   |
| 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  | 10 000 000   |
| <b>type of coordination</b>  | 2  |
| <b>Net Weight</b>  | 1.06 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>   | 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 AC</b>  |  |

|   |  |
|---|--|
| • at 50 Hz rated value  | 220 V  |
| • at 50 Hz rated value  | 176 ... 242 V  |
| • at 60 Hz rated value  | 240 V  |
| • at 60 Hz rated value  | 192 ... 264 V  |
| <b>apparent holding power of magnet coil at AC</b>  | 9.4 VA   |
| <b>inductive power factor with the holding power of the coil</b>                                      | 0.28   |
| <b>Auxiliary circuit</b>  |  |
| <b>number of NC contacts for auxiliary contacts</b>   | 1  |
| <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>                                | 208 A  |
| <b>UL/CSA ratings</b>   |  |
| <b>full-load current (FLA) for 3-phase AC motor</b>   |  |
| • at 480 V rated value  | 15.2 A   |
| • at 600 V rated value  | 12.2 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>   |  |
| <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  |
| • at 500 V according to IEC 60947-4-1 rated value   | 100 000 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>   | 260 mm   |
| <b>width</b>  | 45 mm  |
| <b>depth</b>  | 155 mm   |
| <b>required spacing</b>   |  |
| • for grounded parts  |  |
| — forwards  | 10 mm  |
| — backwards   | 0 mm   |
| — upwards   | 30 mm  |
| — at the side   | 9 mm   |
| — downwards   | 10 mm  |
| • for live parts  |  |
| — forwards  | 10 mm  |
| — backwards   | 0 mm   |
| — upwards   | 30 mm  |
| — downwards   | 10 mm  |
| — at the side   | 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>                        | 1 ... 10 mm <sup>2</sup> , 2x (2.5 ... 6 mm <sup>2</sup> ) |
| <b>connectable conductor cross-section for main contacts finely stranded with core end processing</b> | 1 ... 6 mm <sup>2</sup>                                    |
| <b>Safety related data</b>  |  |
| <b>proportion of dangerous failures with high demand rate</b>   | 73 %   |

|  |  |
|--|--|
| according to SN 31920  |  |
| <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**

|                    |                                 |                                       |
|--------------------|---------------------------------|---------------------------------------|
| <b>Environment</b> | <b>General Product Approval</b> | <b>For use in hazardous locations</b> |
|--------------------|---------------------------------|---------------------------------------|

[Environmental Confirmations](#)



|                          |                             |
|--------------------------|-----------------------------|
| <b>Test Certificates</b> | <b>Maritime application</b> |
|--------------------------|-----------------------------|

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



|                             |              |
|-----------------------------|--------------|
| <b>Maritime application</b> | <b>other</b> |
|-----------------------------|--------------|



[Confirmation](#)

[Confirmation](#)



**Railway**

[Special Test Certificate](#)

**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=3RA2120-4AD26-0AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4AD26-0AP6>

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

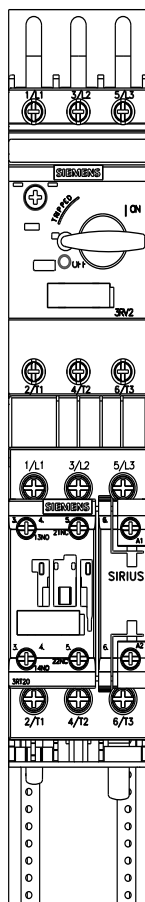
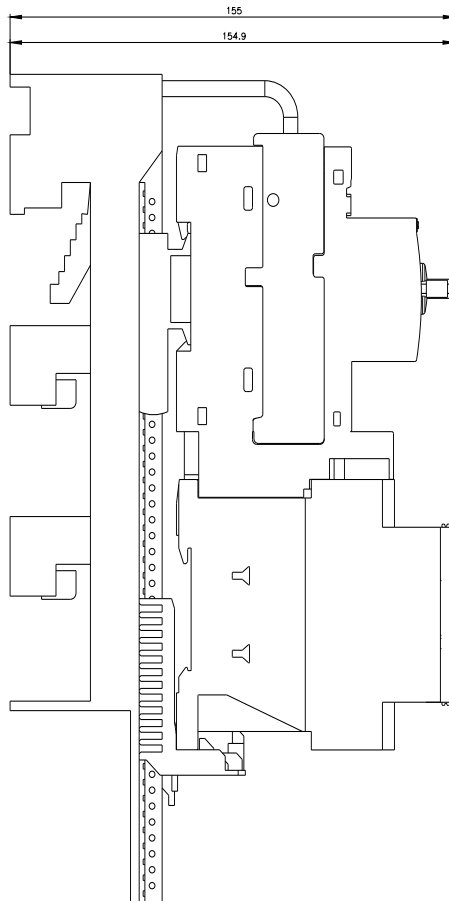
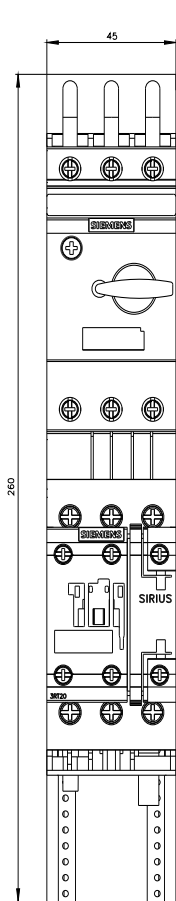
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**Cax online generator**

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-4AD26-0AP6>

**Characteristic curves**

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





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