






FUSELESS MOTOR STARTER DIRECT START 600V AC SZ S0 7-10A 24V DC  
SCREW CONNECTION FOR SCREW MOUNTING OR 35 MM RAIL-MOUNTING  
TYPE OF COORDINATION 2 IQ = 150 KA ALSO FULFILLS TYPE OF  
COORDINATION 1 1NO+1NC (MSP) 1NO+1NC (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="#">3RT2024-1BB40</a><br><a href="#">3RV2011-1JA15</a><br><a href="#">3RA2921-1BA00</a> |
| <b>General technical data</b>  |   |
| <b>size of the circuit-breaker</b>   | S00   |
| <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>  | 0.95 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>   | 7 ... 10 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   | 8.5 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>   | 4 000 W<br>5 500 W  |
| <b>Control circuit/ Control</b>  |   |
| <b>control supply voltage at DC rated value</b>  | 24 V  |
| <b>holding power of magnet coil at DC</b>  | 5.9 W   |
| <b>Auxiliary circuit</b>   |   |
| <b>number of NC contacts for auxiliary contacts</b>  | 2   |
| <b>number of NO contacts for auxiliary contacts</b>  | 2   |
| <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  | 130 A   |
| <b>UL/CSA ratings</b>  |   |
| <b>full-load current (FLA) for 3-phase AC motor</b>  |   |

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul>  | 7.92 A<br>9.19 A  |   |   |   |   |
| <b>yielded mechanical performance [hp]</b>  |   |   |   |   |   |
| <ul style="list-style-type: none"> <li>• for single-phase AC motor <ul style="list-style-type: none"> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> </ul> </li> <li>• for 3-phase AC motor <ul style="list-style-type: none"> <li>— at 200/208 V rated value</li> <li>— at 220/230 V rated value</li> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> </ul> </li> </ul> | 0.5 hp<br>1.5 hp<br>2 hp<br>3 hp<br>5 hp<br>7.5 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 400 V according to IEC 60947-4-1 rated value</li> </ul>   | 153 000 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>   | 193 mm  |   |   |   |   |
| <b>width</b>  | 45 mm   |   |   |   |   |
| <b>depth</b>  | 107 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>                  | 10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>10 mm<br>0 mm<br>30 mm<br>10 mm<br>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   | 1 ... 10 mm <sup>2</sup> , 2x (2.5 ... 6 mm <sup>2</sup> )                          |   |   |   |   |
| connectable conductor cross-section for main contacts finely stranded with core end processing  | 1 ... 6 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   |   |   |   |   |
| Electrical Safety   |   |   |   |   |   |
| <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>   |   |   |   |   |   |
| Environment   | General Product Approval  | For use in hazardous locations  |   |   |   |
| <a href="#">Environmental Conformations</a>   |  |  |  |  |  |
| Test Certificates   | Maritime application  |   |   |   |   |

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Maritime application

other



[Confirmation](#)

[Confirmation](#)



Railway

Dangerous goods

[Special Test Certificate](#)

[Transport Information](#)

#### 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=3RA2125-1JA24-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-1JA24-0BB4>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2125-1JA24-0BB4&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2125-1JA24-0BB4&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2125-1JA24-0BB4>

Characteristic curves

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

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