



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 10...16 A 24 V DC screw terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, I<sub>q</sub> = 150 kA 1 NO+1 NC (contactor)

|                                                                                     |                                     |
|-------------------------------------------------------------------------------------|-------------------------------------|
| product brand name                                                                  | SIRIUS                              |
| product designation                                                                 | Direct (on-line) starter            |
| design of the product                                                               | for standard rail or screw mounting |
| product type designation                                                            | 3RA21                               |
| manufacturer's article number                                                       |                                     |
| • of the supplied contactor                                                         | <a href="#">3RT2026-1BB40</a>       |
| • of the supplied circuit-breakers                                                  | <a href="#">3RV2021-4AA10</a>       |
| • of the supplied link module                                                       | <a href="#">3RA2921-1BA00</a>       |
| <b>General technical data</b>                                                       |                                     |
| size of the circuit-breaker                                                         | S0                                  |
| size of load feeder                                                                 | S0                                  |
| power loss [W] for rated value of the current                                       |                                     |
| • at AC in hot operating state per pole                                             | 5 W                                 |
| • without load current share typical                                                | 5.9 W                               |
| insulation voltage with degree of pollution 3 at AC rated value                     | 690 V                               |
| surge voltage resistance rated value                                                | 6 kV                                |
| degree of protection NEMA rating                                                    | other                               |
| shock resistance according to IEC 60068-2-27                                        | 6g / 11 ms                          |
| mechanical service life (operating cycles) of contactor typical                     | 10 000 000                          |
| type of assignment                                                                  | 2                                   |
| reference code according to IEC 81346-2:2019                                        | Q                                   |
| Substance Prohibitance (Date)                                                       | 10/01/2009                          |
| SVHC substance name                                                                 | Lead - 7439-92-1                    |
| Weight                                                                              | 1.023 kg                            |
| <b>Ambient conditions</b>                                                           |                                     |
| ambient temperature                                                                 |                                     |
| • during operation                                                                  | -20 ... +60 °C                      |
| • during storage                                                                    | -50 ... +80 °C                      |
| • during transport                                                                  | -50 ... +80 °C                      |
| temperature compensation                                                            | -20 ... +60 °C                      |
| relative humidity during operation                                                  | 10 ... 95 %                         |
| <b>Main circuit</b>                                                                 |                                     |
| number of poles for main current circuit                                            | 3                                   |
| design of the switching contact                                                     | electromechanical                   |
| adjustable current response value current of the current-dependent overload release | 10 ... 16 A                         |
| operating voltage                                                                   |                                     |
| • rated value                                                                       | 690 V                               |
| • at AC-3 rated value maximum                                                       | 690 V                               |
| • at AC-3e rated value maximum                                                      | 690 V                               |

|                                                                        |                                                |
|------------------------------------------------------------------------|------------------------------------------------|
| <b>operating frequency rated value</b>                                 | 50 ... 60 Hz                                   |
| <b>operational current</b>                                             |                                                |
| • at AC-3 at 400 V rated value                                         | 16 A                                           |
| • at AC-3e at 400 V rated value                                        | 16 A                                           |
| <b>operating power</b>                                                 |                                                |
| • at AC-3                                                              |                                                |
| — at 400 V rated value                                                 | 7 500 W                                        |
| • at AC-3e                                                             |                                                |
| — at 400 V rated value                                                 | 7 500 W                                        |
| <b>Control circuit/ Control</b>                                        |                                                |
| <b>type of voltage of the control supply voltage</b>                   | DC                                             |
| <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>product extension auxiliary switch</b>                              | Yes                                            |
| <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                                                 | 16 A                                           |
| • at 600 V rated value                                                 | 16 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                                             | 2 hp                                           |
| — at 220/230 V rated value                                             | 5 hp                                           |
| — at 460/480 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                      | 150 000 A                                      |
| <b>Installation/ mounting/ dimensions</b>                              |                                                |
| <b>mounting position</b>                                               | vertical                                       |
| <b>fastening method</b>                                                | screw and snap-on mounting onto 35 mm DIN rail |
| <b>height</b>                                                          | 193 mm                                         |
| <b>width</b>                                                           | 45 mm                                          |
| <b>depth</b>                                                           | 107 mm                                         |
| <b>required spacing</b>                                                |                                                |
| • for grounded parts                                                   |                                                |
| — forwards                                                             | 20 mm                                          |
| — backwards                                                            | 0 mm                                           |
| — upwards                                                              | 50 mm                                          |
| — at the side                                                          | 20 mm                                          |
| — downwards                                                            | 10 mm                                          |
| • for live parts                                                       |                                                |
| — forwards                                                             | 20 mm                                          |
| — backwards                                                            | 0 mm                                           |
| — upwards                                                              | 50 mm                                          |
| — downwards                                                            | 10 mm                                          |
| — at the side                                                          | 20 mm                                          |
| <b>Connections/ Terminals</b>                                          |                                                |
| <b>type of electrical connection</b>                                   |                                                |
| • for main current circuit                                             | screw-type terminals                           |
| • for auxiliary and control circuit                                    | screw-type terminals                           |
| <b>Safety related data</b>                                             |                                                |

|                                                             |                                                  |
|-------------------------------------------------------------|--------------------------------------------------|
| product function suitable for safety function               | Yes                                              |
| <b>Electrical Safety</b>                                    |                                                  |
| <b>touch protection on the front according to IEC 60529</b> | finger-safe, for vertical contact from the front |
| <b>Communication/ Protocol</b>                              |                                                  |
| <b>protocol is supported</b>                                |                                                  |
| • PROFINET IO protocol                                      | No                                               |
| • PROFIsafe protocol                                        | No                                               |
| protocol is supported AS-Interface protocol                 | No                                               |
| <b>Approvals Certificates</b>                               |                                                  |
| <b>General Product Approval</b>                             | For use in hazardous locations                   |



[Confirmation](#)



|                          |                          |
|--------------------------|--------------------------|
| <b>Test Certificates</b> | <b>Marine / Shipping</b> |
|--------------------------|--------------------------|

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|                          |              |                |                        |
|--------------------------|--------------|----------------|------------------------|
| <b>Marine / Shipping</b> | <b>other</b> | <b>Railway</b> | <b>Dangerous goods</b> |
|--------------------------|--------------|----------------|------------------------|



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| <b>Environment</b> |
|--------------------|

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| <b>Further information</b> |
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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=3RA2120-4AA26-0BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2120-4AA26-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4AA26-0BB4>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2120-4AA26-0BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-4AA26-0BB4&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4AA26-0BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-4AA26-0BB4&objecttype=14&gridview=view1>





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