

Load feeder fuseless, Direct-on-line starting 400 V AC, Size S2 49...59 A 230 V AC, 50 Hz 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)

|  |   |
|--|---|
| <b>product brand name</b>  | SIRIUS  |
| <b>product designation</b>   | Direct (on-line) starter  |
| <b>design of the product</b>   | for DIN-rail or screw mounting  |
| <b>product type designation</b>  | 3RA21   |
| <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="#">3RT2037-1AP00</a><br><a href="#">3RV2032-4XA10</a><br><a href="#">3RA2931-1AA00</a> |
| <b>General technical data</b>  |   |
| <b>size of the circuit-breaker</b>   | S2  |
| <b>size of load feeder</b>   | S2  |
| <b>power loss [W] for rated value of the current</b>   |   |
| <ul style="list-style-type: none"> <li>• at AC in hot operating state per pole</li> <li>• without load current share typical</li> </ul>                          | 12.5 W<br>16 W  |
| <b>type of calculation of power loss current-dependent</b>   | quadratic   |
| insulation voltage with degree of pollution 3 at AC rated value  | 690 V   |
| <b>surge voltage resistance rated value</b>  | 6 kV  |
| <b>degree of protection NEMA rating</b>  | other   |
| <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>reference code according to IEC 81346-2:2019</b>  | Q   |
| <b>Substance Prohibitance (day/month/year)</b>   | 03/01/2017  |
| <b>SVHC substance name</b>   | Lead CAS-No. 7439-92-1  |
| <b>Net Weight</b>  | 2.279 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>-50 ... +80 °C  |
| <b>temperature compensation</b>  | -20 ... +60 °C  |
| relative humidity during operation   | 10 ... 95 %   |
| <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>   | 49 ... 59 A   |
| <b>operating voltage</b>   |   |
| <ul style="list-style-type: none"> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> <li>• at AC-3e rated value maximum</li> </ul>                   | 690 V<br>690 V<br>690 V   |
| <b>operating frequency rated value</b>   | 50 ... 60 Hz  |
| <b>operational current</b>   |   |
| <ul style="list-style-type: none"> <li>• at AC-3 at 400 V rated value</li> <li>• at AC-3e at 400 V rated value</li> </ul>  | 59 A<br>59 A  |
| <b>operating power</b>   |   |
| <ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> <li>• at AC-3e</li> </ul>        | 30 000 W  |

|  |   |                           |
|--|---|---------------------------|
| — at 400 V rated value   | 30 000 W  |                           |
| <b>Control circuit/ Control</b>                                  |   |                           |
| <b>type of voltage of the control supply voltage</b>             | AC  |                           |
| <b>control supply voltage at AC</b>                              |   |                           |
| • at 50 Hz rated value   | 230 V   |                           |
| <b>apparent holding power of magnet coil at AC</b>               | 16 VA   |                           |
| • at 50 Hz   | 16 VA   |                           |
| <b>inductive power factor with the holding power of the coil</b> | 0.37  |                           |
| • at 50 Hz   | 0.37  |                           |
| <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)                              |                           |
| response value current of instantaneous short-circuit trip unit  | 845 A   |                           |
| <b>UL/CSA ratings</b>  |   |                           |
| <b>full-load current (FLA) for 3-phase AC motor</b>              |   |                           |
| • at 480 V rated value   | 59 A  |                           |
| • at 600 V rated value   | 52 A  |                           |
| <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, horizontal                              |                           |
| <b>fastening method</b>  | screw and snap-on mounting to two 35 mm DIN rails |                           |
| <b>height</b>  | 274 mm  |                           |
| <b>width</b>   | 55 mm   |                           |
| <b>depth</b>   | 150 mm  |                           |
| <b>required spacing</b>  |   |                           |
| • for grounded parts   |   |                           |
| — forwards   | 32 mm   |                           |
| — backwards  | 0 mm  |                           |
| — upwards  | 50 mm   |                           |
| — at the side  | 10 mm   |                           |
| — downwards  | 10 mm   |                           |
| • for live parts   |   |                           |
| — forwards   | 32 mm   |                           |
| — backwards  | 0 mm  |                           |
| — upwards  | 50 mm   |                           |
| — downwards  | 10 mm   |                           |
| — at the side  | 10 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>Environment</b>   | <b>General Product Approval</b>                   | <b>For use in hazard-</b> |

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#### 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=3RA2150-4XA37-0AP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2150-4XA37-0AP0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2150-4XA37-0AP0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2150-4XA37-0AP0&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2150-4XA37-0AP0>

Characteristic curves

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

last modified:

4/24/2026