



FUSELESS LOAD FEEDER REVERSING OPERATION, AC 400V, S0 4.5...6.3A, AC 110/120V 50/60HZ SCREW TERMINAL FOR RAIL MOUNTING, W. MOUNTING RAIL ADAPTER TYPE OF ASSIGNMENT 2, IQ = 150KA (ALSO FULFILLS TYPE OF ASSIGNMENT 1) 1NO+1NC (CONTACTOR)

|                                                                                     |                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                                                  | SIRIUS                                                                                                                                                                                                                                                                                                                     |
| product designation                                                                 | Reversing starter                                                                                                                                                                                                                                                                                                          |
| design of the product                                                               | for standard rail or screw mounting                                                                                                                                                                                                                                                                                        |
| manufacturer's article number                                                       | <ul style="list-style-type: none"> <li>of the supplied contactor <a href="#">3RT2024-1AK60</a></li> <li>of the supplied circuit-breakers <a href="#">3RV2011-1GA10</a></li> <li>of the supplied RH assembly kit <a href="#">3RA2923-1BB1</a></li> <li>of the supplied link module <a href="#">3RA2921-1AA00</a></li> </ul> |
| <b>General technical data</b>                                                       |                                                                                                                                                                                                                                                                                                                            |
| size of the circuit-breaker                                                         | S00                                                                                                                                                                                                                                                                                                                        |
| size of load feeder                                                                 | S0                                                                                                                                                                                                                                                                                                                         |
| insulation voltage with degree of pollution 3 at AC rated value                     | 690 V                                                                                                                                                                                                                                                                                                                      |
| surge voltage resistance rated value                                                | 6 kV                                                                                                                                                                                                                                                                                                                       |
| 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                                                                                                                                                                                                                                                                                                                          |
| Substance Prohibitance (Date)                                                       | 10/01/2009                                                                                                                                                                                                                                                                                                                 |
| <b>Ambient conditions</b>                                                           |                                                                                                                                                                                                                                                                                                                            |
| ambient temperature                                                                 | <ul style="list-style-type: none"> <li>during operation -20 ... +60 °C</li> <li>during storage -50 ... +80 °C</li> <li>during transport -50 ... +80 °C</li> </ul>                                                                                                                                                          |
| <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 | 4.5 ... 6.3 A                                                                                                                                                                                                                                                                                                              |
| operating voltage                                                                   | <ul style="list-style-type: none"> <li>rated value 690 V</li> <li>at AC-3 rated value maximum 690 V</li> </ul>                                                                                                                                                                                                             |
| operating frequency rated value                                                     | 50 ... 60 Hz                                                                                                                                                                                                                                                                                                               |
| operational current                                                                 | <ul style="list-style-type: none"> <li>at AC-3 at 400 V rated value 4.9 A</li> </ul>                                                                                                                                                                                                                                       |
| operating power                                                                     | <ul style="list-style-type: none"> <li>at AC-3 — at 400 V rated value 2 200 W</li> </ul>                                                                                                                                                                                                                                   |
| <b>Control circuit/ Control</b>                                                     |                                                                                                                                                                                                                                                                                                                            |
| control supply voltage at AC                                                        | <ul style="list-style-type: none"> <li>at 50 Hz rated value 110 V</li> <li>at 50 Hz rated value 88 ... 121 V</li> </ul>                                                                                                                                                                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                          |                           |
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| <ul style="list-style-type: none"><li>• at 60 Hz rated value</li></ul>                                                                                                                                                                                                                                                                                                            | 120 V                                                                                    |                           |
| <ul style="list-style-type: none"><li>• at 60 Hz rated value</li></ul>                                                                                                                                                                                                                                                                                                            | 96 ... 132 V                                                                             |                           |
| apparent holding power of magnet coil at AC                                                                                                                                                                                                                                                                                                                                       | 8.5 VA                                                                                   |                           |
| Auxiliary circuit                                                                                                                                                                                                                                                                                                                                                                 |                                                                                          |                           |
| product extension auxiliary switch                                                                                                                                                                                                                                                                                                                                                | Yes                                                                                      |                           |
| Protective and monitoring functions                                                                                                                                                                                                                                                                                                                                               |                                                                                          |                           |
| trip class                                                                                                                                                                                                                                                                                                                                                                        | CLASS 10                                                                                 |                           |
| design of the overload release                                                                                                                                                                                                                                                                                                                                                    | thermal (bimetallic)                                                                     |                           |
| UL/CSA ratings                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          |                           |
| full-load current (FLA) for 3-phase AC motor                                                                                                                                                                                                                                                                                                                                      |                                                                                          |                           |
| <ul style="list-style-type: none"><li>• at 480 V rated value</li></ul>                                                                                                                                                                                                                                                                                                            | 4.8 A                                                                                    |                           |
| yielded mechanical performance [hp]                                                                                                                                                                                                                                                                                                                                               |                                                                                          |                           |
| <ul style="list-style-type: none"><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>                                                                                                                         | 1 hp<br>1.5 hp<br>3 hp<br>5 hp                                                           |                           |
| Short-circuit protection                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |                           |
| product function short circuit protection                                                                                                                                                                                                                                                                                                                                         | Yes                                                                                      |                           |
| design of the short-circuit trip                                                                                                                                                                                                                                                                                                                                                  | magnetic                                                                                 |                           |
| conditional short-circuit current (Iq)                                                                                                                                                                                                                                                                                                                                            |                                                                                          |                           |
| <ul style="list-style-type: none"><li>• at 400 V according to IEC 60947-4-1 rated value</li></ul>                                                                                                                                                                                                                                                                                 | 150 000 A                                                                                |                           |
| Installation/ mounting/ dimensions                                                                                                                                                                                                                                                                                                                                                |                                                                                          |                           |
| mounting position                                                                                                                                                                                                                                                                                                                                                                 | vertical                                                                                 |                           |
| fastening method                                                                                                                                                                                                                                                                                                                                                                  | On adapter for screw and snap-on mounting on 35 mm DIN rail                              |                           |
| height                                                                                                                                                                                                                                                                                                                                                                            | 265 mm                                                                                   |                           |
| width                                                                                                                                                                                                                                                                                                                                                                             | 90 mm                                                                                    |                           |
| depth                                                                                                                                                                                                                                                                                                                                                                             | 120 mm                                                                                   |                           |
| required spacing                                                                                                                                                                                                                                                                                                                                                                  |                                                                                          |                           |
| <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> | 32 mm<br>0 mm<br>50 mm<br>10 mm<br>10 mm<br><br>32 mm<br>0 mm<br>50 mm<br>10 mm<br>10 mm |                           |
| Connections/ Terminals                                                                                                                                                                                                                                                                                                                                                            |                                                                                          |                           |
| type of electrical connection                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |                           |
| <ul style="list-style-type: none"><li>• for main current circuit</li></ul>                                                                                                                                                                                                                                                                                                        | screw-type terminals                                                                     |                           |
| Safety related data                                                                                                                                                                                                                                                                                                                                                               |                                                                                          |                           |
| B10 value with high demand rate according to SN 31920                                                                                                                                                                                                                                                                                                                             | 1 000 000                                                                                |                           |
| proportion of dangerous failures                                                                                                                                                                                                                                                                                                                                                  |                                                                                          |                           |
| <ul style="list-style-type: none"><li>• with high demand rate according to SN 31920</li></ul>                                                                                                                                                                                                                                                                                     | 73 %                                                                                     |                           |
| Certificates/ approvals                                                                                                                                                                                                                                                                                                                                                           |                                                                                          |                           |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                          | For use in hazard-ous locations                                                          | Declaration of Conformity |

[Confirmation](#)



Test Certificates

Marine / Shipping



Marine / Shipping

other

Railway



[Confirmation](#)

[Vibration and Shock](#)

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RA2220-1GB24-0AK6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1GB24-0AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1GB24-0AK6>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2220-1GB24-0AK6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1GB24-0AK6&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1GB24-0AK6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1GB24-0AK6&objecttype=14&gridview=view1>



