



Load feeder fuseless, Reversing duty 400 V AC, Size S00 0.35...0.50 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 NC (contactor)

|  |   |
|--|---|
| <b>product brand name</b>  | SIRIUS  |
| <b>product designation</b>   | Reversing starter   |
| <b>design of the product</b>   | for standard rail or screw mounting   |
| <b>product type designation</b>  | 3RA22   |
| <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="#">3RT2015-1BB42</a><br><a href="#">3RV2011-0FA10</a><br><a href="#">3RA1921-1DA00</a> |
| <b>General technical data</b>  |   |
| <b>size of the circuit-breaker</b>   | S00   |
| <b>size of load feeder</b>   | S00   |
| 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   |
| shock resistance according to IEC 60068-2-27   | 6g / 11 ms  |
| mechanical service life (switching cycles) of contactor typical  | 30 000 000  |
| <b>type of assignment</b>  | 2   |
| <b>type of protection according to ATEX directive 2014/34/EU</b>   | Ex II (2) GD  |
| certificate of suitability according to ATEX directive 2014/34/EU  | DMT 02 ATEX F 001   |
| <b>Substance Prohibitation (Date)</b>  | 10/01/2009  |
| <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>   | 0.35 ... 0.5 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  | 0.44 A   |
| operating power at AC-3   |  |
| • at 400 V rated value  | 120 W  |
| <b>Control circuit/ Control</b>   |  |
| <b>type of voltage of the control supply voltage</b>  | DC   |
| <b>control supply voltage at DC</b>   |  |
| • rated value   | 24 V   |
| • rated value   | 24 ... 24 V  |
| <b>holding power of magnet coil at DC</b>   | 4 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>UL/CSA ratings</b>   |  |
| <b>full-load current (FLA) for 3-phase AC motor</b>   |  |
| • at 480 V rated value  | 0.5 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   |
| <b>fastening method</b>   | screw and snap-on mounting onto 35 mm standard mounting rail   |
| <b>height</b>   | 170 mm   |
| <b>width</b>  | 90 mm  |
| <b>depth</b>  | 97 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>type of connectable conductor cross-sections</b>   |  |
| • for main contacts   |  |
| — stranded  | 0.5 ... 4 mm <sup>2</sup> , 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| • at AWG cables for main contacts   | 2x (20 ... 16), only for contactor 2x (18 ... 14), 2x 12       |
| connectable conductor cross-section for main contacts<br>finely stranded with core end processing | 0.5 ... 2.5 mm <sup>2</sup>                                    |
| <b>Safety related data</b>  |  |
| B10 value with high demand rate according to SN 31920   | 1 000 000  |
| <b>proportion of dangerous failures</b>   |  |
| • with high demand rate according to SN 31920   | 73 %   |
| <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

### Certificates/ approvals

General Product Approval

For use in hazardous locations

Declaration of Conformity



[Confirmation](#)



Declaration of Conformity

Test Certificates

Marine / Shipping



EG-Konf.

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



ABS



BUREAU VERITAS



LRS

Marine / Shipping

other

Railway



PRS



RINA



RMRS



DNV-GL

[Confirmation](#)

[Vibration and Shock](#)

Dangerous Good

[Transport Information](#)

### Further information

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=3RA2210-0FA15-2BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-0FA15-2BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0FA15-2BB4>

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

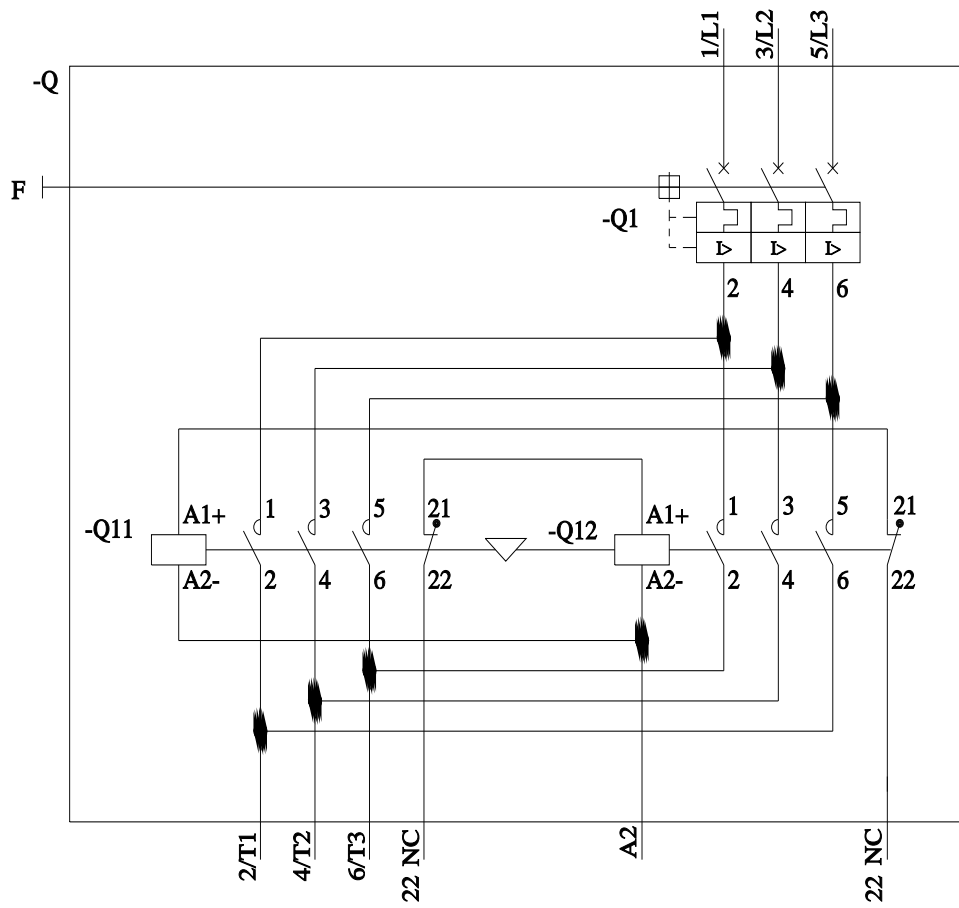
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2210-0FA15-2BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-0FA15-2BB4&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0FA15-2BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-0FA15-2BB4&objecttype=14&gridview=view1>



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