

FUSELESS LOAD FEEDER DIRECT START, AC 400V, SZ. S00  
 1.4. . .2A, AC 110/120V 50/60HZ SCREW TERMINAL FOR RAIL  
 MOUNTING, TYPE OF ASSIGNMENT 2,IQ = 150KA (ALSO  
 FULFILLS TYPE OF ASSIGNMENT 1) 1NO (CONTACTOR)



|  |   |
|--|---|
| <b>Product brand name</b>  | SIRIUS  |
| <b>Product designation</b>   | non-fused load feeders 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="#">3RT2015-1AK61</a><br><a href="#">3RV2011-1BA10</a><br><a href="#">3RA1921-1DA00</a> |

| General technical data   |              |
|--|--------------|
| <b>Size of the circuit-breaker</b>   | S00          |
| <b>Size of load feeder</b>   | S00          |
| <b>Product extension</b>   |              |
| <ul style="list-style-type: none"> <li>• Auxiliary switch</li> </ul>                             | Yes          |
| <b>Insulation voltage</b>  |              |
| <ul style="list-style-type: none"> <li>• with degree of pollution 3 at AC rated value</li> </ul> | 690 V        |
| <b>Degree of pollution</b>   | 3            |
| <b>Surge voltage resistance rated value</b>  | 6 kV         |
| <b>Protection class IP</b>   |              |
| <ul style="list-style-type: none"> <li>• on the front</li> <li>• of the terminal</li> </ul>      | IP20<br>IP00 |

|  |            |
|--|------------|
| <b>Shock resistance</b>  |            |
| <ul style="list-style-type: none"> <li>• acc. to IEC 60068-2-27</li> </ul> | 6g / 11 ms |
| <b>Mechanical service life (switching cycles)</b>                          |            |
| <ul style="list-style-type: none"> <li>• of contactor typical</li> </ul>   | 30 000 000 |
| <b>Type of assignment</b>  | 2          |

### Main circuit

|   |                           |
|---|---------------------------|
| <b>Number of poles for main current circuit</b>   | 3                         |
| <b>Design of the switching contact</b>  | electromechanical         |
| <b>Adjustable pick-up value current of the current-dependent overload release</b>   | 1.4 ... 2 A               |
| <b>Operating voltage</b>  |                           |
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>   | 690 V                     |
| <ul style="list-style-type: none"> <li>• at AC-3 rated value maximum</li> </ul>   | 690 V                     |
| <b>Operating frequency rated value</b>  | 50 ... 60 Hz              |
| <b>Operating current</b>  |                           |
| <ul style="list-style-type: none"> <li>• at AC-3</li> <li>— at 400 V rated value</li> </ul>   | 1.9 A                     |
| <b>Operating power</b>  |                           |
| <ul style="list-style-type: none"> <li>• at AC-3</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> | 750 W<br>750 W<br>1 100 W |

### Control circuit/ Control

|  |                |
|--|----------------|
| <b>Control supply voltage at AC</b>  |                |
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul> | 110 V<br>120 V |
| <b>Apparent holding power of magnet coil at AC</b>   | 4.2 V·A        |

### Protective and monitoring functions

|  |                      |
|--|----------------------|
| <b>Trip class</b>  | CLASS 10             |
| <b>Design of the overload release</b>  | thermal (bimetallic) |
| <b>Response value current</b>  |                      |
| <ul style="list-style-type: none"> <li>• of instantaneous short-circuit trip unit</li> </ul> | 26 A                 |

### UL/CSA ratings

|   |                    |
|---|--------------------|
| <b>Full-load current (FLA) for three-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>  | 1.63 A<br>1.72 A   |
| <b>Yielded mechanical performance [hp]</b>  |                    |
| <ul style="list-style-type: none"> <li>• for single-phase AC motor</li> <li>— at 230 V rated value</li> <li>• for three-phase AC motor</li> <li>— at 460/480 V rated value</li> </ul> | 0.13 hp<br>0.75 hp |

— at 575/600 V rated value

1 hp

### Short-circuit protection

|  |   |
|--|---|
| <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 690 V acc. to IEC 60947-4-1 rated value</li> <li>• at 400 V acc. to IEC 60947-4-1 rated value</li> <li>• at 500 V acc. to IEC 60947-4-1 rated value</li> </ul> | <p>10 000 A</p> <p>153 000 A</p> <p>100 000 A</p> |

### Installation/ mounting/ dimensions

|  |  |
|--|--|
| <b>Mounting position</b>   | vertical   |
| <b>Mounting type</b>   | screw and snap-on mounting onto 35 mm standard mounting rail   |
| <b>Height</b>  | 167.2 mm   |
| <b>Width</b>   | 45 mm  |
| <b>Depth</b>   | 97.1 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> | <p>0 mm</p> <p>0 mm</p> <p>20 mm</p> <p>9 mm</p> <p>10 mm</p><br><p>0 mm</p> <p>0 mm</p> <p>20 mm</p> <p>10 mm</p> <p>9 mm</p> |

### Connections/ Terminals

|  |   |
|--|---|
| <b>Type of electrical connection</b>   |   |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>   | screw-type terminals  |
| <b>Type of connectable conductor cross-sections</b>  |   |
| <ul style="list-style-type: none"> <li>• for main contacts           <ul style="list-style-type: none"> <li>— stranded</li> </ul> </li> <li>• at AWG conductors for main contacts</li> </ul> | <p>0.5 ... 4 mm<sup>2</sup>, 2x (0.75 ... 2.5 mm<sup>2</sup>)</p> <p>2x (20 ... 16), only for contactor 2x (18 ... 14), 2x 12</p> |
| <b>Connectable conductor cross-section for main contacts</b>   |   |
| <ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>   | 0.5 ... 2.5 mm <sup>2</sup>   |

### Safety related data

|  |           |
|--|-----------|
| <b>B10 value</b>   |           |
| <ul style="list-style-type: none"> <li>• with high demand rate acc. to SN 31920</li> </ul> | 1 000 000 |
| <b>Proportion of dangerous failures</b>  |           |

Certificates/ approvals

|                          |                                |                           |
|--------------------------|--------------------------------|---------------------------|
| General Product Approval | For use in hazardous locations | Declaration of Conformity |
|--------------------------|--------------------------------|---------------------------|



[Miscellaneous](#)

|                   |                   |
|-------------------|-------------------|
| Test Certificates | Marine / Shipping |
|-------------------|-------------------|

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



ABS



LRS



PRS



RINA

|                   |       |         |
|-------------------|-------|---------|
| Marine / Shipping | other | Railway |
|-------------------|-------|---------|



RMRS



DNVGL.COM/AF

[Confirmation](#)

[Vibration and Shock](#)

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=3RA2110-1BA15-1AK6>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1BA15-1AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1BA15-1AK6>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2110-1BA15-1AK6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1BA15-1AK6&lang=en)

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1BA15-1AK6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1BA15-1AK6&objecttype=14&gridview=view1>







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