



FUSELESS MOTOR STARTER REVERSING OPERATION 600V AC SZ  
S00 0.18-0.25A 220/240V AC 50/60HZ SCREW CONNECTION FOR  
SCREW MOUNTING OR 35 MM RAIL-MOUNTING TYPE OF  
COORDINATION 2 IQ = 150 KA ALSO FULFILLS TYPE OF  
COORDINATION 1 1NC (PER CONTACTOR)

|  |  |
|--|--|
| <b>product brand name</b>  | SIRIUS   |
| <b>product designation</b>   | non-fused motor starter 3RA2                       |
| <b>design of the product</b>   | reversing 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>                       | 3RT2015-1AP62<br>3RV2011-0CA10<br>3RA1921-1DA00    |
| <b>General technical data</b>  |  |
| <b>size of the circuit-breaker</b>   | S00  |
| <b>size of load feeder</b>   | S00  |
| product extension auxiliary switch   | Yes  |
| insulation voltage with degree of pollution 3 at AC rated value  | 690 V  |
| <b>degree of pollution</b>   | 3  |
| <b>surge voltage resistance rated value</b>  | 6 kV   |
| shock resistance acc. 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  |
| Substance Prohibitance (Date)  | 01.03.2017 00:00:00                                |
| <b>Ambient conditions</b>  |  |
| <ul style="list-style-type: none"> <li>• ambient temperature during operation</li> <li>• ambient temperature during storage</li> <li>• ambient temperature during transport</li> </ul> | -20 ... +60 °C<br>-50 ... +80 °C<br>-55 ... +80 °C |
| <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>   | 0.18 ... 0.25 A                                    |
| <ul style="list-style-type: none"> <li>• operating voltage rated value</li> <li>• operating voltage 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   | 0.2 A  |
| operating power at AC-3  |  |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> <li>• at 500 V rated value</li> <li>• at 690 V rated value</li> </ul>   | 60 W<br>90 W<br>120 W                              |
| <b>Control circuit/ Control</b>  |  |

|  |  |                                  |
|--|--|----------------------------------|
| <b>control supply voltage at AC</b>  |  |                                  |
| <ul style="list-style-type: none"> <li>● at 50 Hz rated value</li> <li>● at 50 Hz rated value</li> <li>● at 60 Hz rated value</li> <li>● at 60 Hz rated value</li> </ul>   | 220 V<br>187 ... 242 V<br>240 V<br>192 ... 264 V   |                                  |
| <b>apparent holding power of magnet coil at AC</b>   | 4.8 V·A  |                                  |
| <b>inductive power factor with the holding power of the coil</b>   | 0.25   |                                  |
| <b>Auxiliary circuit</b>   |  |                                  |
| <b>number of NC contacts for auxiliary contacts</b>  | 1  |                                  |
| <b>number of NO contacts for auxiliary contacts</b>  | 0  |                                  |
| <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  | 3.25 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>   |  |                                  |
| <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>   | 100 000 A<br>153 000 A<br>100 000 A  |                                  |
| <b>Installation/ mounting/ dimensions</b>  |  |                                  |
| <b>mounting position</b>   | vertical   |                                  |
| <b>fastening method</b>  | Snap-mounted to DIN rail or screw-mounted with additional push-in lug  |                                  |
| <b>height</b>  | 170 mm   |                                  |
| <b>width</b>   | 90 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> | 0 mm<br>0 mm<br>20 mm<br>9 mm<br>10 mm<br><br>0 mm<br>0 mm<br>20 mm<br>10 mm<br>9 mm                                       |                                  |
| <b>Connections/ Terminals</b>  |  |                                  |
| <b>type of electrical connection for main current circuit</b>  | screw-type terminals   |                                  |
| <b>type of connectable conductor cross-sections</b>  |  |                                  |
| <ul style="list-style-type: none"> <li>● for main contacts stranded</li> <li>● at AWG cables for main contacts</li> </ul>  | 0.5 ... 4 mm <sup>2</sup> , 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), only for contactor 2x (18 ... 14), 2x 12 |                                  |
| <ul style="list-style-type: none"> <li>● connectable conductor cross-section for main contacts finely stranded with core end processing</li> </ul>   | 0.5 ... 2.5 mm <sup>2</sup>  |                                  |
| <b>Safety related data</b>   |  |                                  |
| B10 value with high demand rate acc. to SN 31920   | 1 000 000  |                                  |
| proportion of dangerous failures with high demand rate acc. to SN 31920  | 73 %   |                                  |
| <b>protection class IP on the front acc. to IEC 60529</b>  | IP20   |                                  |
| <b>touch protection on the front acc. to IEC 60529</b>   | finger-safe, for vertical contact from the front   |                                  |
| <b>Certificates/ approvals</b>   |  |                                  |
| <b>General Product Approval</b>  | <b>For use in hazardous</b>  | <b>Declaration of Conformity</b> |

locations



[Miscellaneous](#)

Test Certificates

Marine / Shipping

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping

other

Railway



[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=3RA2210-0CA15-2AP6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-0CA15-2AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0CA15-2AP6>

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

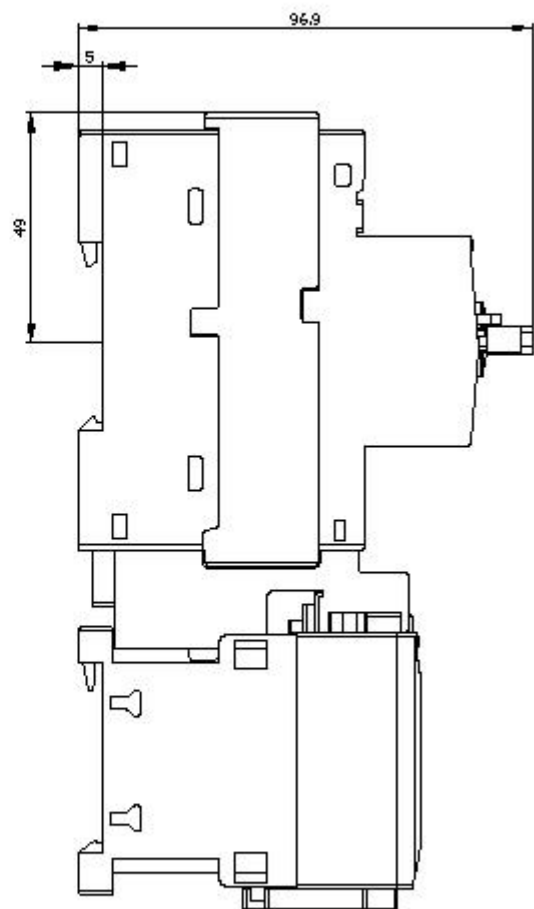
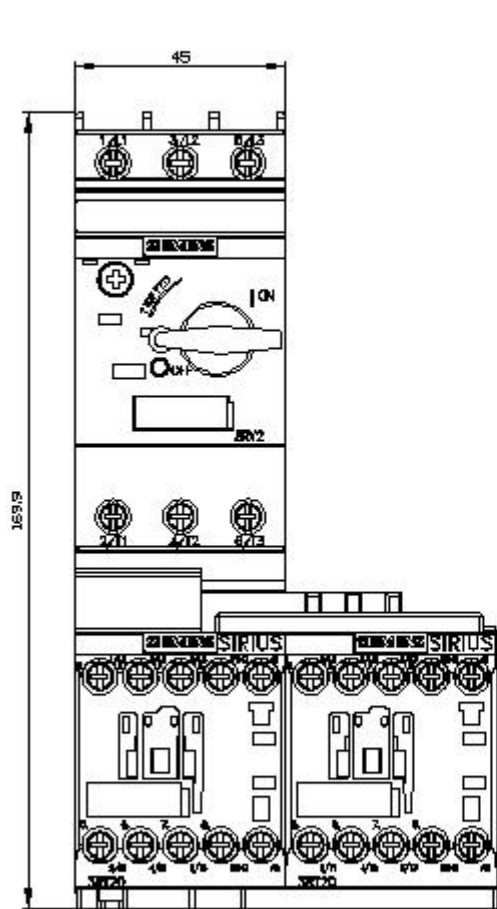
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2210-0CA15-2AP6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-0CA15-2AP6&lang=en)

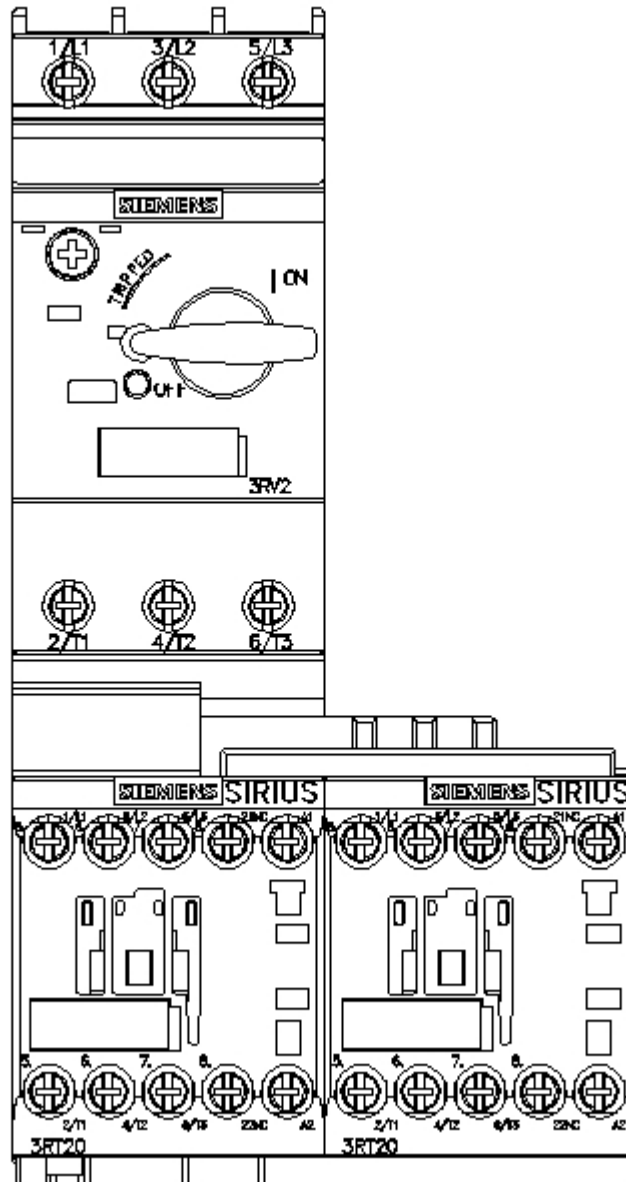
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

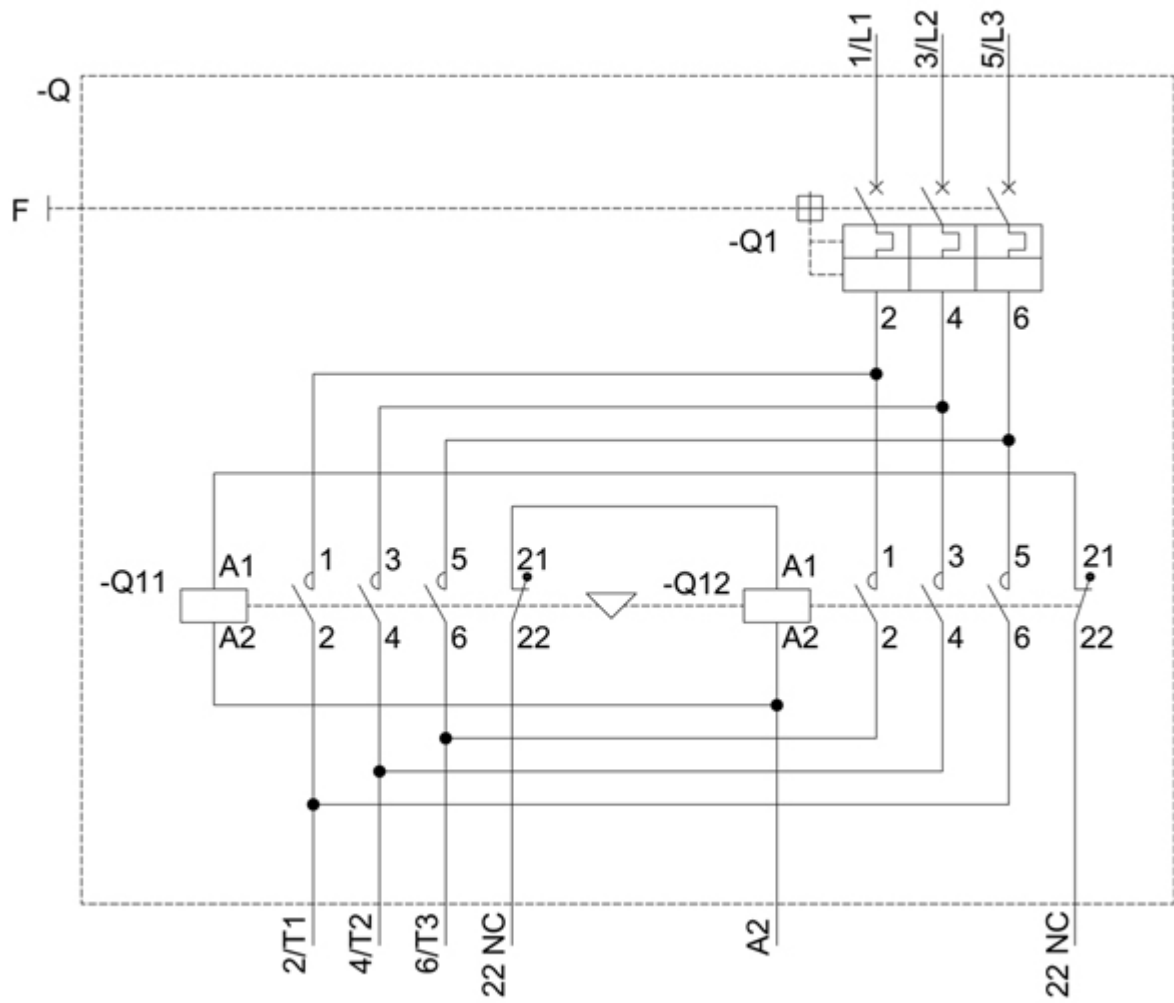
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0CA15-2AP6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-0CA15-2AP6&objecttype=14&gridview=view1>







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12/15/2020