



Fuseless motor starter Direct start 600VAC Size S00 2.2-3.2A 110/120VAC 50/60HZ screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (MSP) 1NO (contactor)

|                                                                                     |                               |
|-------------------------------------------------------------------------------------|-------------------------------|
| product brand name                                                                  | SIRIUS                        |
| product designation                                                                 | non-fused motor starter 3RA2  |
| design of the product                                                               | direct starter                |
| manufacturer's article number                                                       |                               |
| • of the supplied contactor                                                         | <a href="#">3RT2015-1AK61</a> |
| • of the supplied circuit-breakers                                                  | <a href="#">3RV2011-1DA15</a> |
| • of the supplied link module                                                       | <a href="#">3RA1921-1DA00</a> |
| General technical data                                                              |                               |
| size of the circuit-breaker                                                         | S00                           |
| size of load feeder                                                                 | S00                           |
| product extension auxiliary switch                                                  | Yes                           |
| insulation voltage with degree of pollution 3 at AC rated value                     | 690 V                         |
| degree of pollution                                                                 | 3                             |
| 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                     | 30 000 000                    |
| type of coordination                                                                | 2                             |
| Net Weight                                                                          | 0.58 kg                       |
| Ambient conditions                                                                  |                               |
| ambient temperature                                                                 |                               |
| • during operation                                                                  | -20 ... +60 °C                |
| • during storage                                                                    | -50 ... +80 °C                |
| • during transport                                                                  | -55 ... +80 °C                |
| Main circuit                                                                        |                               |
| 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 | 2.2 ... 3.2 A                 |
| operating voltage                                                                   |                               |
| • rated value                                                                       | 690 V                         |
| • at AC-3 rated value maximum                                                       | 690 V                         |
| operating frequency rated value                                                     | 50 ... 60 Hz                  |
| operational current at AC-3 at 400 V rated value                                    | 2.7 A                         |
| operating power at AC-3                                                             |                               |
| • at 400 V rated value                                                              | 1 100 W                       |
| • at 500 V rated value                                                              | 1 500 W                       |
| Control circuit/ Control                                                            |                               |
| control supply voltage at AC                                                        |                               |
| • at 50 Hz rated value                                                              | 110 V                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul>                                                                                                                                                                                                                                                                              | 93.5 ... 121 V<br>120 V<br>96 ... 132 V                                              |
| <b>apparent holding power of magnet coil at AC</b>                                                                                                                                                                                                                                                                                                                                                                    | 4.8 VA                                                                               |
| <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>                                                                                                                                                                                                                                                                                                                                                                   | 2                                                                                    |
| <b>Protective and monitoring functions</b>                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |
| <b>trip class</b>                                                                                                                                                                                                                                                                                                                                                                                                     | CLASS 10                                                                             |
| <b>design of the overload release</b>                                                                                                                                                                                                                                                                                                                                                                                 | thermal (bimetallic)                                                                 |
| <b>response value current of instantaneous short-circuit trip unit</b>                                                                                                                                                                                                                                                                                                                                                | 41.6 A                                                                               |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                      |
| <b>full-load current (FLA) for 3-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>                                                                                                                                                                                                                                                                                                              | 2.8 A<br>3.16 A                                                                      |
| <b>yielded mechanical performance [hp]</b>                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |
| <ul style="list-style-type: none"> <li>• for single-phase AC motor <ul style="list-style-type: none"> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> </ul> </li> <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> | 0.1 hp<br>0.25 hp<br><br>0.5 hp<br>0.75 hp<br>1.5 hp<br>2 hp                         |
| <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 400 V according to IEC 60947-4-1 rated value</li> <li>• at 500 V according to IEC 60947-4-1 rated value</li> </ul>                                                                                                                                                                                                                                                        | 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>                                                                                                                                                                                                                                                                                                                                                                                                         | 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>                  | 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 for main contacts stranded</b>                                                                                                                                                                                                                                                                                                                                        | 0.5 ... 4 mm <sup>2</sup> , 2x (0.75 ... 2.5 mm <sup>2</sup> )                       |
| <b>connectable conductor cross-section for main contacts finely stranded with core end processing</b>                                                                                                                                                                                                                                                                                                                 | 0.5 ... 2.5 mm <sup>2</sup>                                                          |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |
| <b>proportion of dangerous failures with high demand rate according to SN 31920</b>                                                                                                                                                                                                                                                                                                                                   | 73 %                                                                                 |

|                                                         |                                                  |
|---------------------------------------------------------|--------------------------------------------------|
| B10 value with high demand rate according to SN 31920   | 1 000 000                                        |
| Electrical Safety                                       |                                                  |
| protection class IP on the front according to IEC 60529 | IP20                                             |
| touch protection on the front according to IEC 60529    | finger-safe, for vertical contact from the front |
| Approvals Certificates                                  |                                                  |

|                          |                                |                   |
|--------------------------|--------------------------------|-------------------|
| General Product Approval | For use in hazardous locations | Test Certificates |
|--------------------------|--------------------------------|-------------------|



[Type Test Certificates/Test Report](#)

|                   |                      |
|-------------------|----------------------|
| Test Certificates | Maritime application |
|-------------------|----------------------|

[Special Test Certificate](#)



|                      |       |         |             |
|----------------------|-------|---------|-------------|
| Maritime application | other | Railway | Environment |
|----------------------|-------|---------|-------------|



[Confirmation](#)

[Special Test Certificate](#)

[Environmental Confirmations](#)

#### 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=3RA2115-1DA15-1AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2115-1DA15-1AK6>

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

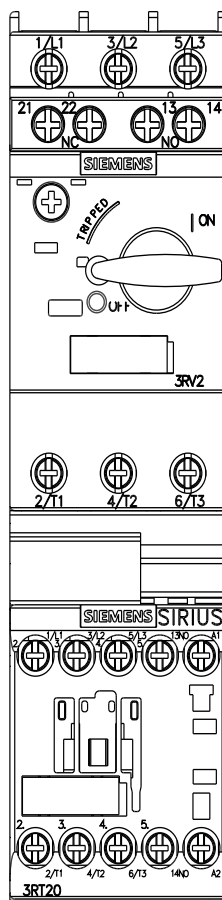
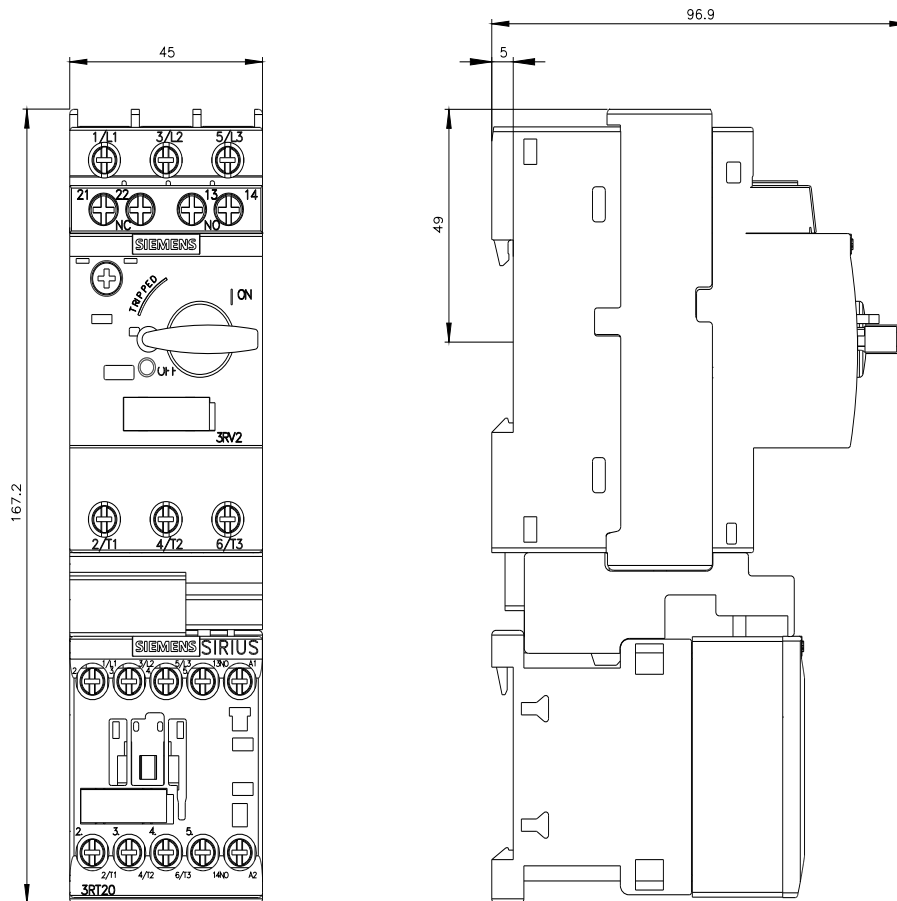
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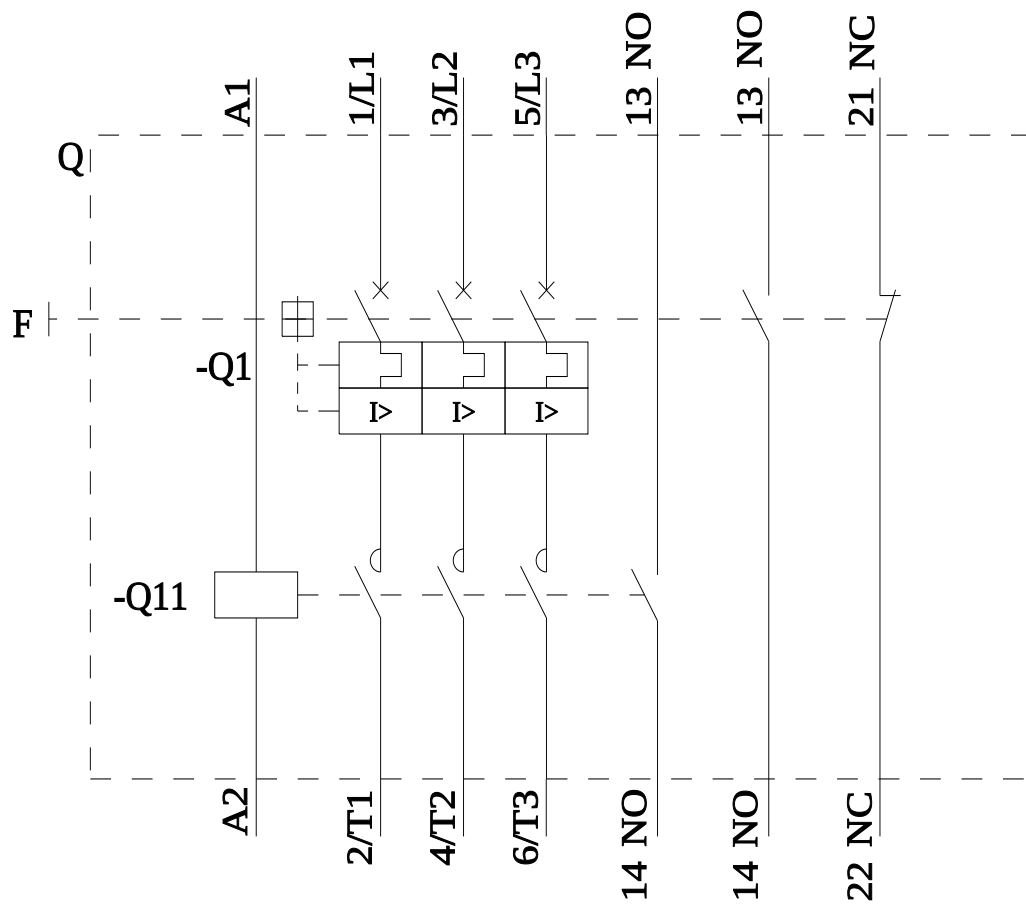
Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2115-1DA15-1AK6>

Characteristic curves

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