



Fuseless motor starter Direct start 600VAC Size S00 0.22-0.32a 220/240VAC 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 (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="#">3RT2015-1AP61</a> |
| • of the supplied circuit-breakers                                                  | <a href="#">3RV2011-0DA10</a> |
| • of the supplied link module                                                       | <a href="#">3RA1921-1DA00</a> |
| <b>General technical data</b>                                                       |                               |
| 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                       |
| <b>Ambient conditions</b>                                                           |                               |
| ambient temperature                                                                 |                               |
| • during operation                                                                  | -20 ... +60 °C                |
| • during storage                                                                    | -50 ... +80 °C                |
| • during transport                                                                  | -55 ... +80 °C                |
| <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 | 0.22 ... 0.32 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                                    | 0.3 A                         |
| operating power at AC-3                                                             |                               |
| • at 400 V rated value                                                              | 90 W                          |
| • at 500 V rated value                                                              | 90 W                          |
| • at 690 V rated value                                                              | 120 W                         |
| <b>Control circuit/ Control</b>                                                     |                               |
| control supply voltage at AC                                                        |                               |

|                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------|
| <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                                     |                   |
| apparent holding power of magnet coil at AC                                                                                                                                                                                                                                                                                                                                       | 4.8 VA                                                                               |                   |
| inductive power factor with the holding power of the coil                                                                                                                                                                                                                                                                                                                         | 0.25                                                                                 |                   |
| Auxiliary circuit                                                                                                                                                                                                                                                                                                                                                                 |                                                                                      |                   |
| number of NO contacts for auxiliary contacts                                                                                                                                                                                                                                                                                                                                      | 1                                                                                    |                   |
| Protective and monitoring functions                                                                                                                                                                                                                                                                                                                                               |                                                                                      |                   |
| trip class                                                                                                                                                                                                                                                                                                                                                                        | CLASS 10                                                                             |                   |
| design of the overload release                                                                                                                                                                                                                                                                                                                                                    | thermal (bimetallic)                                                                 |                   |
| response value current of instantaneous short-circuit trip unit                                                                                                                                                                                                                                                                                                                   | 4.16 A                                                                               |                   |
| Short-circuit protection                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |                   |
| product function short circuit protection                                                                                                                                                                                                                                                                                                                                         | Yes                                                                                  |                   |
| design of the short-circuit trip                                                                                                                                                                                                                                                                                                                                                  | magnetic                                                                             |                   |
| conditional short-circuit current (I <sub>q</sub> )                                                                                                                                                                                                                                                                                                                               |                                                                                      |                   |
| <ul style="list-style-type: none"><li>• at 690 V according to IEC 60947-4-1 rated value</li><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>                                                                                                                                                             | 100 000 A<br>153 000 A<br>100 000 A                                                  |                   |
| Installation/ mounting/ dimensions                                                                                                                                                                                                                                                                                                                                                |                                                                                      |                   |
| mounting position                                                                                                                                                                                                                                                                                                                                                                 | vertical                                                                             |                   |
| fastening method                                                                                                                                                                                                                                                                                                                                                                  | Snap-mounted to DIN rail or screw-mounted with additional push-in lug                |                   |
| height                                                                                                                                                                                                                                                                                                                                                                            | 167.2 mm                                                                             |                   |
| width                                                                                                                                                                                                                                                                                                                                                                             | 45 mm                                                                                |                   |
| depth                                                                                                                                                                                                                                                                                                                                                                             | 97.1 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> | 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 |                   |
| Connections/ Terminals                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |                   |
| type of electrical connection for main current circuit                                                                                                                                                                                                                                                                                                                            | screw-type terminals                                                                 |                   |
| type of connectable conductor cross-sections for main contacts stranded                                                                                                                                                                                                                                                                                                           | 0.5 ... 4 mm², 2x (0.75 ... 2.5 mm²)                                                 |                   |
| connectable conductor cross-section for main contacts finely stranded with core end processing                                                                                                                                                                                                                                                                                    | 0.5 ... 2.5 mm²                                                                      |                   |
| Safety related data                                                                                                                                                                                                                                                                                                                                                               |                                                                                      |                   |
| proportion of dangerous failures with high demand rate according to SN 31920                                                                                                                                                                                                                                                                                                      | 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=3RA2110-0DA15-1AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-0DA15-1AP6>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2110-0DA15-1AP6&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-0DA15-1AP6&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-0DA15-1AP6>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)



