



Fuseless motor starter Reversing operation 600VAC Size S0 14-20A 220/240VAC 50/60HZ screw connection For 35 mm rail-mounting Type of coordination 2 IQ = 50 KA Also full fills type Of coordination 1 1NO+1NC (per contactor)

|                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                                                                                                                                                                                                                                                                  | SIRIUS                                                                                                                                                                                            |
| product designation                                                                                                                                                                                                                                                                                 | non-fused motor starter 3RA2                                                                                                                                                                      |
| design of the product                                                                                                                                                                                                                                                                               | reversing starter                                                                                                                                                                                 |
| manufacturer's article number                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>of the supplied contactor</li> <li>of the supplied circuit-breakers</li> <li>of the supplied RH assembly kit</li> <li>of the supplied busbar adapter</li> <li>of the supplied link module</li> <li>of the supplied standard mounting rail adapter</li> </ul> | <a href="#">3RT2026-1AP60</a><br><a href="#">3RV2021-4BA10</a><br><a href="#">3RA2923-1BB1</a><br><a href="#">3RA2922-1AA00</a><br><a href="#">3RA2921-1AA00</a><br><a href="#">3RA2922-1AA00</a> |
| <b>General technical data</b>                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                   |
| size of the circuit-breaker                                                                                                                                                                                                                                                                         | S0                                                                                                                                                                                                |
| size of load feeder                                                                                                                                                                                                                                                                                 | S0                                                                                                                                                                                                |
| 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                                                                                                                                                                                                                                     | 10 000 000                                                                                                                                                                                        |
| type of assignment                                                                                                                                                                                                                                                                                  | 2                                                                                                                                                                                                 |
| Substance Prohibitance (Date)                                                                                                                                                                                                                                                                       | 03/01/2017                                                                                                                                                                                        |
| Weight                                                                                                                                                                                                                                                                                              | 2.12 kg                                                                                                                                                                                           |
| <b>Ambient conditions</b>                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                   |
| ambient temperature                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                   |
| <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>-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                                                                                                                                                                                                                 | 14 ... 20 A                                                                                                                                                                                       |
| operating voltage                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>rated value</li> <li>at AC-3 rated value maximum</li> </ul>                                                                                                                                                                                                  | 690 V<br>690 V                                                                                                                                                                                    |
| operating frequency rated value                                                                                                                                                                                                                                                                     | 50 ... 60 Hz                                                                                                                                                                                      |
| operational current at AC-3 at 400 V rated value                                                                                                                                                                                                                                                    | 15.5 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> </ul>                                                                                                                                                                                                | 7 500 W<br>11 000 W                                                                                                                                                                               |

|                                                                                                |                                                            |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Control circuit/ Control</b>                                                                |                                                            |
| <b>control supply voltage at AC</b>                                                            |                                                            |
| • at 50 Hz rated value                                                                         | 220 V                                                      |
| • at 50 Hz rated value                                                                         | 176 ... 242 V                                              |
| • at 60 Hz rated value                                                                         | 240 V                                                      |
| • at 60 Hz rated value                                                                         | 192 ... 264 V                                              |
| <b>apparent holding power of magnet coil at AC</b>                                             | 9.4 VA                                                     |
| <b>inductive power factor with the holding power of the coil</b>                               | 0.28                                                       |
| <b>Auxiliary circuit</b>                                                                       |                                                            |
| <b>number of NC contacts for auxiliary contacts</b>                                            | 2                                                          |
| <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)                                       |
| response value current of instantaneous short-circuit trip unit                                | 260 A                                                      |
| <b>UL/CSA ratings</b>                                                                          |                                                            |
| <b>full-load current (FLA) for 3-phase AC motor</b>                                            |                                                            |
| • at 480 V rated value                                                                         | 15.2 A                                                     |
| • at 600 V rated value                                                                         | 17.8 A                                                     |
| <b>yielded mechanical performance [hp]</b>                                                     |                                                            |
| • for single-phase AC motor                                                                    |                                                            |
| — at 110/120 V rated value                                                                     | 1.5 hp                                                     |
| — at 230 V rated value                                                                         | 3 hp                                                       |
| • for 3-phase AC motor                                                                         |                                                            |
| — at 200/208 V rated value                                                                     | 5 hp                                                       |
| — at 220/230 V rated value                                                                     | 5 hp                                                       |
| — at 460/480 V rated value                                                                     | 10 hp                                                      |
| — at 575/600 V rated value                                                                     | 15 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>                                       |                                                            |
| • at 400 V according to IEC 60947-4-1 rated value                                              | 153 000 A                                                  |
| <b>Installation/ mounting/ dimensions</b>                                                      |                                                            |
| <b>mounting position</b>                                                                       | vertical                                                   |
| <b>fastening method</b>                                                                        | snap-on fastening on 35 mm DIN rail                        |
| <b>height</b>                                                                                  | 265 mm                                                     |
| <b>width</b>                                                                                   | 90 mm                                                      |
| <b>depth</b>                                                                                   | 120 mm                                                     |
| <b>required spacing</b>                                                                        |                                                            |
| • for grounded parts                                                                           |                                                            |
| — forwards                                                                                     | 10 mm                                                      |
| — backwards                                                                                    | 0 mm                                                       |
| — upwards                                                                                      | 30 mm                                                      |
| — at the side                                                                                  | 9 mm                                                       |
| — downwards                                                                                    | 10 mm                                                      |
| • for live parts                                                                               |                                                            |
| — forwards                                                                                     | 10 mm                                                      |
| — backwards                                                                                    | 0 mm                                                       |
| — upwards                                                                                      | 30 mm                                                      |
| — downwards                                                                                    | 10 mm                                                      |
| — at the side                                                                                  | 9 mm                                                       |
| <b>Connections/ Terminals</b>                                                                  |                                                            |
| type of electrical connection for main current circuit                                         | screw-type terminals                                       |
| type of connectable conductor cross-sections for main contacts stranded                        | 1 ... 10 mm <sup>2</sup> , 2x (2.5 ... 6 mm <sup>2</sup> ) |
| connectable conductor cross-section for main contacts finely stranded with core end processing | 1 ... 6 mm <sup>2</sup>                                    |
| <b>Safety related data</b>                                                                     |                                                            |
| 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 |
|--------------------------|--------------------------------|

[Confirmation](#)



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

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



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



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#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3RA2220-4BB26-0AP6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-4BB26-0AP6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4BB26-0AP6>

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

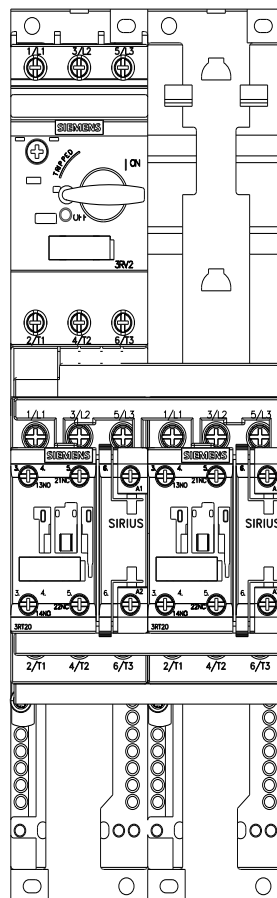
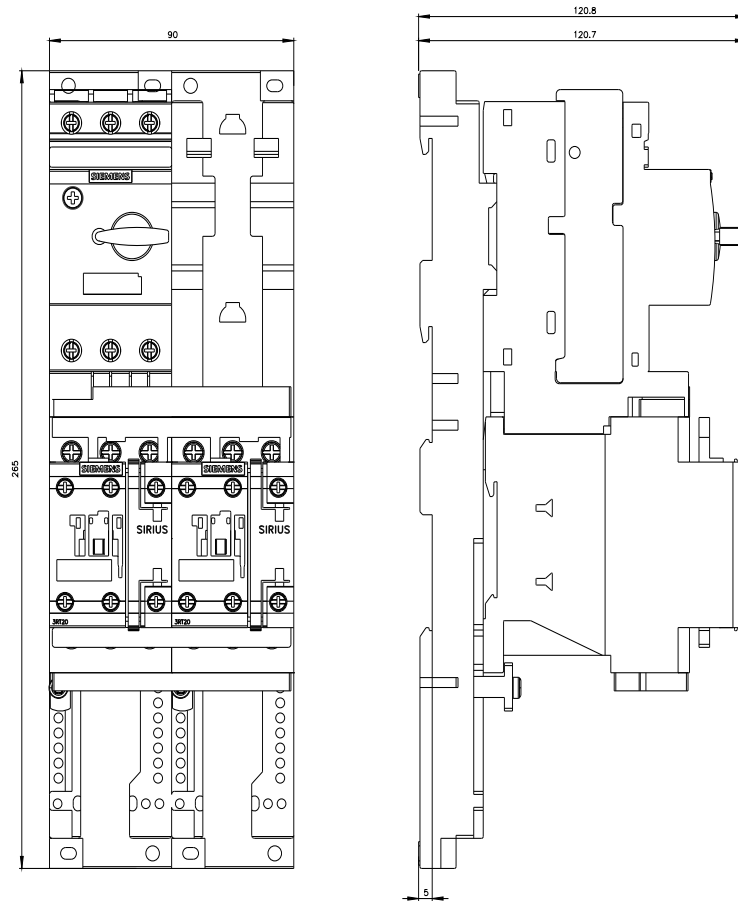
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2220-4BB26-0AP6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-4BB26-0AP6&lang=en)

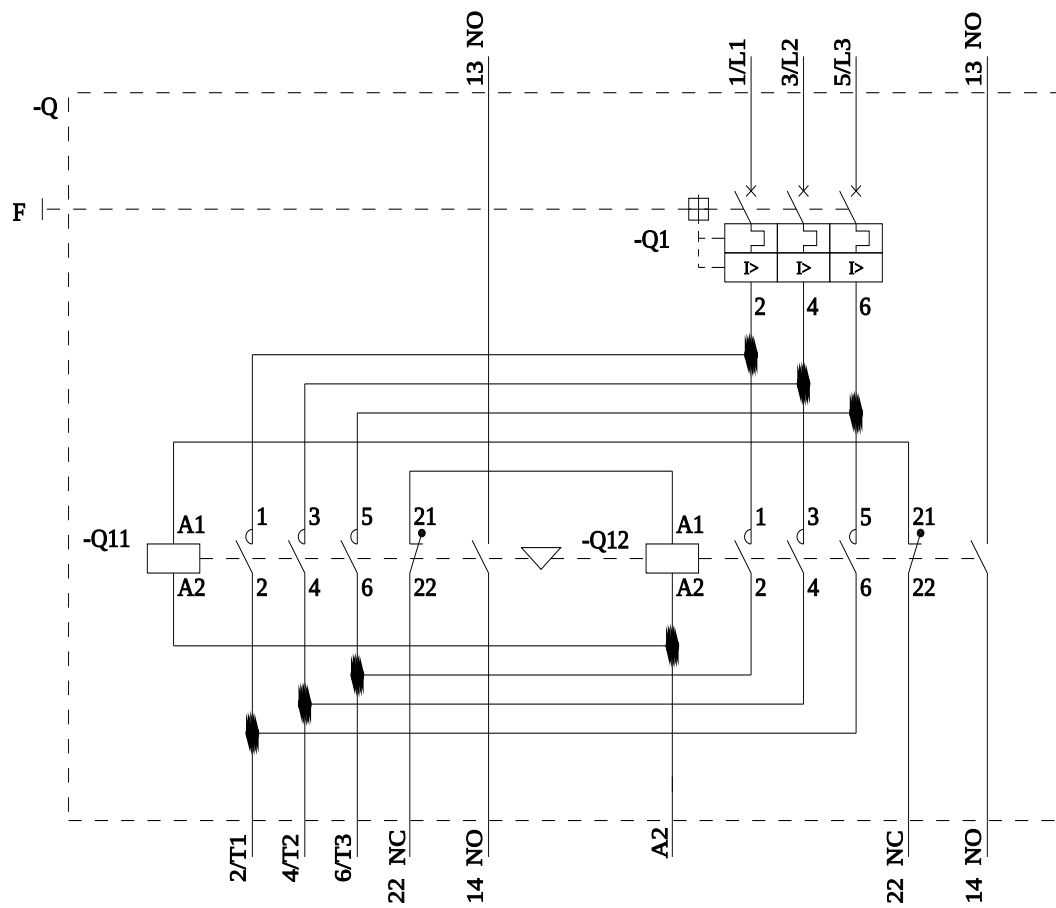
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-4BB26-0AP6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-4BB26-0AP6&objecttype=14&gridview=view1>





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