



Load feeder fuseless, Reversing duty 400 V AC, Size S0 4.50...6.30 A 24 V DC screw terminal for 60 mm busbar systems (also fulfills type of coordination 1) Type of coordination 2, I<sub>q</sub> = 150 kA 1 NO+1 NC (contactor)

|   |                               |
|---|-------------------------------|
| product brand name  | SIRIUS                        |
| product designation   | Reversing starter             |
| design of the product   | for 60 mm busbars             |
| product type designation  | 3RA22                         |
| manufacturer's article number   |                               |
| • of the supplied contactor   | <a href="#">3RT2024-1BB40</a> |
| • of the supplied circuit-breakers  | <a href="#">3RV2011-1GA10</a> |
| • of the supplied RS assembly kit   | <a href="#">3RA2923-1DB1</a>  |
| • of the supplied link module   | <a href="#">3RA2921-1BA00</a> |
| <b>General technical data</b>   |                               |
| size of the circuit-breaker   | S00                           |
| size of load feeder   | S0                            |
| power loss [W] for rated value of the current                                       |                               |
| • at AC in hot operating state per pole   | 2.7 W                         |
| • without load current share typical  | 5.9 W                         |
| insulation voltage with degree of pollution 3 at AC rated value                     | 690 V                         |
| surge voltage resistance rated value  | 6 kV                          |
| degree of protection NEMA rating  | other                         |
| 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                             |
| reference code according to IEC 81346-2:2019  | Q                             |
| Substance Prohibitance (Date)   | 10/01/2009                    |
| SVHC substance name   | Lead - 7439-92-1              |
| Weight  | 2.46 kg                       |
| <b>Ambient conditions</b>   |                               |
| ambient temperature   |                               |
| • during operation  | -20 ... +60 °C                |
| • during storage  | -50 ... +80 °C                |
| • during transport  | -50 ... +80 °C                |
| temperature compensation  | -20 ... +60 °C                |
| relative humidity during operation  | 10 ... 95 %                   |
| <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 | 4.5 ... 6.3 A                 |
| operating voltage   |                               |
| • rated value   | 690 V                         |
| • at AC-3 rated value maximum   | 690 V                         |

|  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• at AC-3e rated value maximum</li> </ul>   | 690 V                                    |
| <b>operating frequency rated value</b>   | 50 ... 60 Hz                             |
| <b>operational current</b>   |  |
| <ul style="list-style-type: none"> <li>• at AC-3 at 400 V rated value</li> </ul>   | 6.3 A                                    |
| <ul style="list-style-type: none"> <li>• at AC-3e at 400 V rated value</li> </ul>  | 6.3 A                                    |
| <b>operating power</b>   |  |
| <ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>  | 2 200 W                                  |
| <ul style="list-style-type: none"> <li>• at AC-3e <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul>   | 2 200 W                                  |
| <b>Control circuit/ Control</b>  |  |
| <b>type of voltage of the control supply voltage</b>   | DC                                       |
| <b>control supply voltage at DC rated value</b>  | 24 V                                     |
| <b>holding power of magnet coil at DC</b>  | 5.9 W                                    |
| <b>Auxiliary circuit</b>   |  |
| <b>product extension auxiliary switch</b>  | Yes                                      |
| <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>   | 82 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> </ul>   | 6.3 A                                    |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>   | 6.3 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> </ul>  | 0.25 hp<br>0.75 hp                       |
| <ul style="list-style-type: none"> <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> | 2 hp<br>2 hp<br>5 hp<br>5 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> </ul>  | 150 000 A                                |
| <b>Installation/ mounting/ dimensions</b>  |  |
| <b>mounting position</b>   | vertical                                 |
| <b>fastening method</b>  | for snapping onto 60 mm busbar systems   |
| <b>height</b>  | 260 mm                                   |
| <b>width</b>   | 90 mm                                    |
| <b>depth</b>   | 165 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> </ul>   | 32 mm<br>0 mm<br>50 mm<br>10 mm<br>10 mm |
| <ul style="list-style-type: none"> <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>   | 32 mm<br>0 mm<br>50 mm<br>10 mm<br>10 mm |
| <b>Connections/ Terminals</b>  |  |
| <b>type of electrical connection</b>   |  |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>   | screw-type terminals                     |

- for auxiliary and control circuit

screw-type terminals

#### Safety related data

product function suitable for safety function

Yes

#### Electrical Safety

touch protection on the front according to IEC 60529

finger-safe, for vertical contact from the front

#### Communication/ Protocol

protocol is supported

- PROFINET IO protocol
- PROFIsafe protocol

No

No

protocol is supported AS-Interface protocol

No

#### 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

#### Dangerous goods



[Confirmation](#)

[Special Test Certificate](#)

[Transport Information](#)

#### Environment

[Environmental Confirmations](#)

#### 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=3RA2220-1GD24-0BB4>

Cax online generator

<http://support.automation.siemens.com/VW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1GD24-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1GD24-0BB4>

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

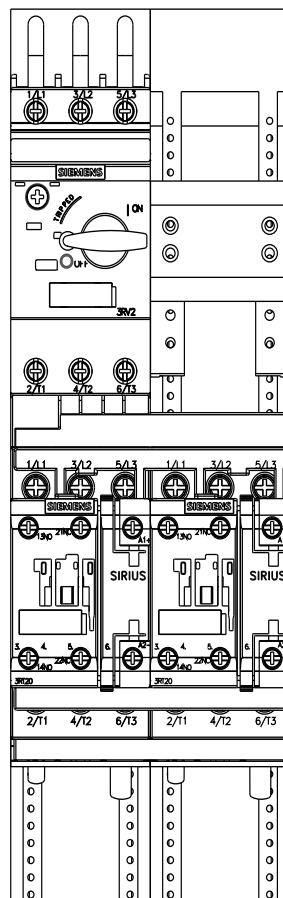
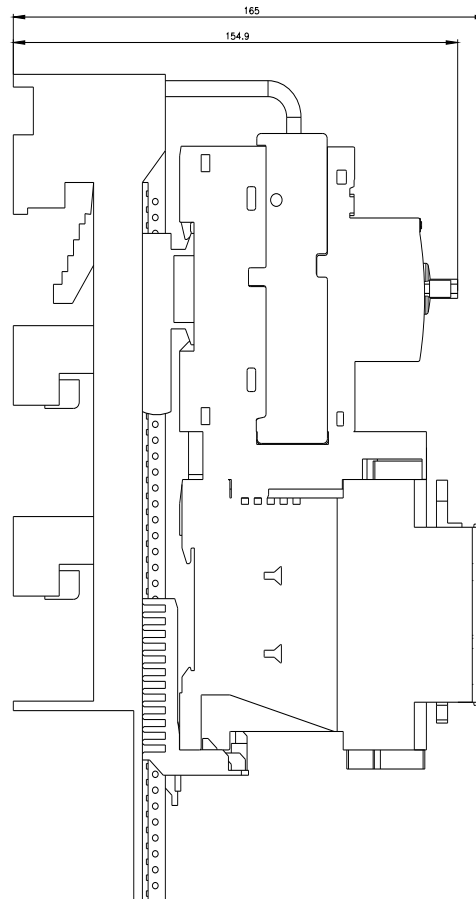
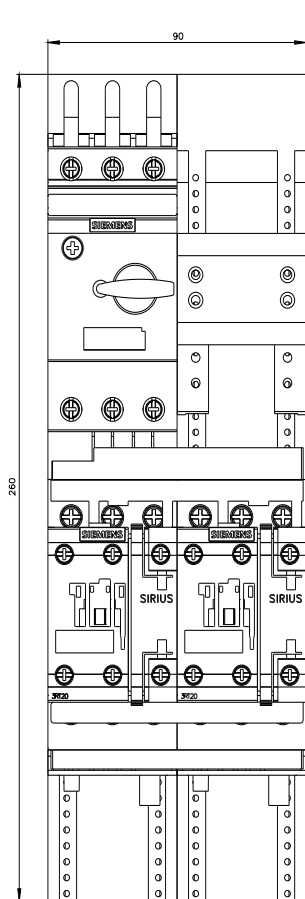
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2220-1GD24-0BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1GD24-0BB4&lang=en)

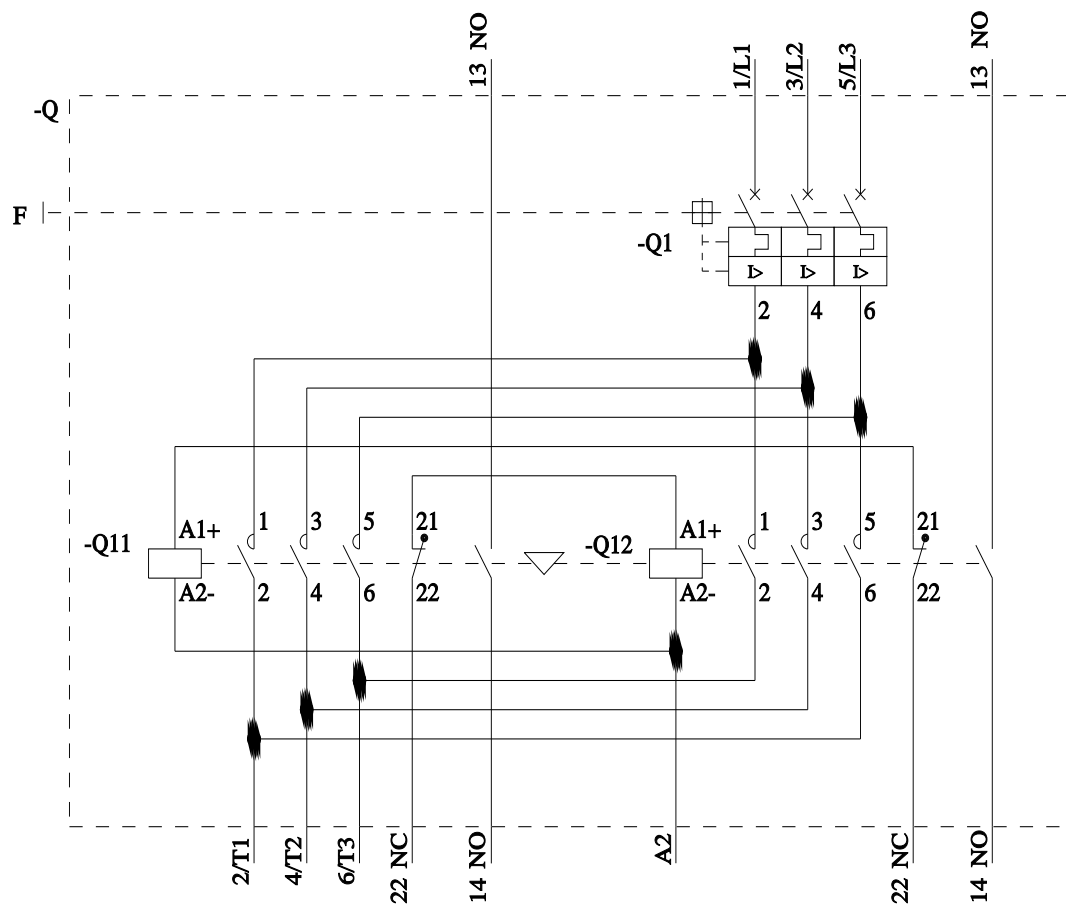
Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1GD24-0BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1GD24-0BB4&objecttype=14&gridview=view1>





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6/5/2024 

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