



LOAD FEEDER FUSELESS DIRECT START, AC 400V, SZ S0, 16...22A, DC 24V SCREW CONNECTION FOR BUSBAR SYSTEMS 60MM TYPE OF COORDINATION 2, IQ = 150KA (ALSO FULFILLS TYPE OF COORDINATION 1) 1NO+1NC (CONTACTOR)

|  |  |                               |
|--|--|-------------------------------|
| product brand name   |  | SIRIUS                        |
| Product designation  |  | non-fused load feeders 3RA2   |
| <b>Manufacturer article number</b>   |  |                               |
| <ul style="list-style-type: none"> <li>• of the supplied contactor</li> </ul>        |  | <a href="#">3RT2027-1BB40</a> |
| <ul style="list-style-type: none"> <li>• of the supplied circuit-breakers</li> </ul> |  | <a href="#">3RV2021-4CA10</a> |
| <ul style="list-style-type: none"> <li>• of the supplied busbar adapter</li> </ul>   |  | <a href="#">8US1251-5NT10</a> |
| <ul style="list-style-type: none"> <li>• of the supplied link module</li> </ul>      |  | <a href="#">3RA2921-1BA00</a> |

### General technical data:

|  |    |            |
|--|----|------------|
| <b>Insulation voltage</b>  |    |            |
| <ul style="list-style-type: none"> <li>• with degree of pollution 3 Rated value</li> </ul> | V  | 690        |
| <b>Shock resistance</b>  |    |            |
| <ul style="list-style-type: none"> <li>• acc. to IEC 60068-2-27</li> </ul>                 |    | 6g / 11 ms |
| <b>Surge voltage resistance Rated value</b>  | kV | 6          |
| <b>Type of assignment</b>  |    | 2          |
| <b>Protection class IP</b>   |    |            |
| <ul style="list-style-type: none"> <li>• on the front</li> </ul>                           |    | IP20       |

### Main circuit:

|  |    |           |
|--|----|-----------|
| <b>Number of poles for main current circuit</b>                                    |    | 3         |
| <b>Adjustable response value current of the current-dependent overload release</b> | A  | 17 ... 22 |
| <b>Operating voltage</b>   |    |           |
| <ul style="list-style-type: none"> <li>• Rated value</li> </ul>                    | V  | 690       |
| <ul style="list-style-type: none"> <li>• at AC-3 Rated value maximum</li> </ul>    | V  | 690       |
| Operating frequency Rated value  | Hz | 50 ... 60 |
| <b>Operating current</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>   | A | 22     |
| <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> <li>— at 500 V Rated value</li> <li>— at 690 V Rated value</li> </ul> </li> </ul> | W | 11 000 |
|   | W | 11 000 |
|   | W | 18 500 |

#### Control circuit/ Control:

|   |   |     |
|---|---|-----|
| <b>Control supply voltage for DC</b>                            |   |     |
| <ul style="list-style-type: none"> <li>• Rated value</li> </ul> | V | 24  |
| <b>Holding power of the magnet coil for DC</b>                  | W | 5.9 |

#### Auxiliary circuit:

|   |  |     |
|---|--|-----|
| <b>Product expansion Auxiliary switch</b> |  | Yes |
|---|--|-----|

#### Protective and monitoring functions:

|   |  |                      |
|---|--|----------------------|
| <b>Trip class</b>                             |  | CLASS 10             |
| <b>Design of the overload circuit breaker</b> |  | thermal (bimetallic) |

#### Short-circuit:

|  |   |          |
|--|---|----------|
| <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> </ul> | A | 2 000    |
| <ul style="list-style-type: none"> <li>• at 400 V acc. to IEC 60947-4-1 Rated value</li> </ul> | A | 153 000  |
| <ul style="list-style-type: none"> <li>• at 500 V acc. to IEC 60947-4-1 Rated value</li> </ul> | A | 5 000    |

#### Installation/ mounting/ dimensions:

|  |    |  |
|--|----|--|
| <b>mounting position</b>   |    | vertical                               |
| <b>Mounting type</b>   |    | for snapping onto 60 mm busbar systems |
| <b>Height</b>  | mm | 260                                    |
| <b>Width</b>   | mm | 45                                     |
| <b>Depth</b>   | mm | 165                                    |
| <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> </ul> </li> </ul> | mm | 10                                     |
|  | mm | 0                                      |
|  | mm | 30                                     |
|  | mm | 9                                      |
|  | mm | 10                                     |
|  | mm | 10                                     |
|  | mm | 0                                      |
|  | mm | 30                                     |

— downwards

mm 10

— at the side

mm 9

#### Connections/ Terminals:

##### Type of electrical connection

- for main current circuit

screw-type terminals

#### Safety related data:

##### 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

##### Protection against electrical shock

finger-safe

#### Mechanical data:

##### Size of the circuit-breaker

S0

##### Size of load feeder

S0

#### Ambient conditions:

##### Ambient temperature

- during operation
- during storage
- during transport

°C -20 ... +60

°C -50 ... +80

°C -50 ... +80

#### Certificates/ approvals:

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



CSA



UL



ATEX



EG-Konf.

[Declaration of the Compliance with the order](#)

|                   |                   |
|-------------------|-------------------|
| Test Certificates | Shipping Approval |
|-------------------|-------------------|

[Type Test Certificates/Test Report](#)



ABS



BUREAU VERITAS



DNV



GL



PRS

|                   |       |
|-------------------|-------|
| Shipping Approval | other |
|-------------------|-------|



RINA

[Environmental Confirmations](#)

[Declaration of Conformity](#)

[other](#)

#### Further information

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

##### Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

##### Cax online generator

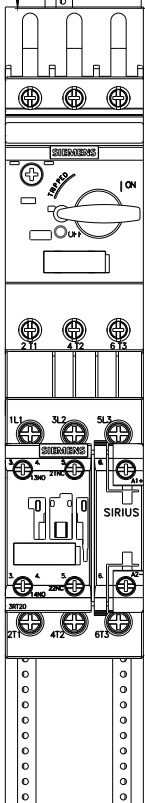
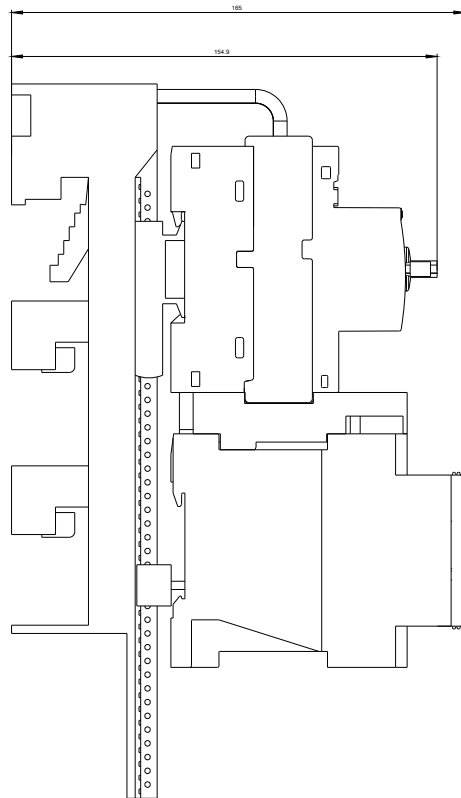
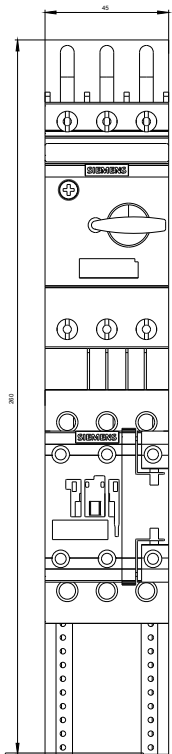
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RA21204CD270BB4>

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

<http://support.automation.siemens.com/WW/view/en/3RA21204CD270BB4/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RA21204CD270BB4&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RA21204CD270BB4&lang=en)



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