



auxiliary switch, lateral, 1 NO + 1 NC, on the left: 51/52, 63/64, on the right: 31/32, 43/44, current path: 1 NC, 1 NO, spring-loaded terminal, for contactors 3RT2 and contactor relays 3RH2

|  |                                  |
|--|----------------------------------|
| product brand name   | SIRIUS                           |
| product category   | Auxiliary switch                 |
| product designation  | auxiliary switch                 |
| design of the product  | first laterally mountable        |
| product type designation   | 3RH29                            |
| suitability for use  | for 3RT2.2, 3RT2.3, 3RT2.4, 3RH2 |
| <b>General technical data</b>                                      |                                  |
| insulation voltage with degree of pollution 3 at AC rated value    | 690 V                            |
| <b>surge voltage resistance rated value</b>                        | 6 kV                             |
| protection class IP on the front                                   | IP20                             |
| mechanical service life (operating cycles) typical                 | 10 000 000                       |
| electrical endurance (operating cycles) at AC-15 at 230 V typical  | 200 000                          |
| Substance Prohibitance (Date)                                      | 10/01/2009                       |
| number of NC contacts for auxiliary contacts                       |                                  |
| • instantaneous contact  | 1                                |
| • lagging switching  | 0                                |
| number of NO contacts for auxiliary contacts                       |                                  |
| • instantaneous contact  | 1                                |
| • leading contact  | 0                                |
| number of CO contacts of auxiliary contacts instantaneous contact  | 0                                |
| operational current at AC-15 at 690 V rated value                  | 1 A                              |
| <b>operational current of auxiliary contacts at AC-12</b>          |                                  |
| • at 24 V  | 10 A                             |
| • at 230 V   | 10 A                             |
| <b>operational current of auxiliary contacts at AC-14</b>          |                                  |
| • at 125 V   | 6 A                              |
| • at 250 V   | 6 A                              |
| <b>operational current of auxiliary contacts at AC-12 maximum</b>  | 10 A                             |
| <b>operational current of auxiliary contacts at AC-15</b>          |                                  |
| • at 24 V  | 6 A                              |
| • at 230 V   | 6 A                              |
| • at 400 V   | 3 A                              |
| <b>operational current of auxiliary contacts at DC-12</b>          |                                  |
| • at 24 V  | 10 A                             |
| • at 110 V   | 3 A                              |
| • at 220 V   | 1 A                              |
| <b>operational current with 2 current paths in series at DC-12</b> |                                  |
| • at 24 V rated value  | 10 A                             |
| • at 60 V rated value  | 10 A                             |

|  |   |
|--|---|
| • at 110 V rated value   | 4 A   |
| • at 220 V rated value   | 2 A   |
| • at 440 V rated value   | 1.3 A   |
| • at 600 V rated value   | 0.65 A  |
| <b>operational current with 3 current paths in series at DC-12</b> |   |
| • at 24 V rated value  | 10 A  |
| • at 60 V rated value  | 10 A  |
| • at 110 V rated value   | 10 A  |
| • at 220 V rated value   | 3.6 A   |
| • at 440 V rated value   | 2.5 A   |
| • at 600 V rated value   | 1.8 A   |
| <b>operational current with 2 current paths in series at DC-13</b> |   |
| • at 24 V rated value  | 10 A  |
| • at 60 V rated value  | 3.5 A   |
| • at 110 V rated value   | 1.3 A   |
| • at 220 V rated value   | 0.9 A   |
| • at 440 V rated value   | 0.2 A   |
| • at 600 V rated value   | 0.1 A   |
| <b>operational current with 3 current paths in series at DC-13</b> |   |
| • at 24 V rated value  | 10 A  |
| • at 60 V rated value  | 4.7 A   |
| • at 110 V rated value   | 3 A   |
| • at 220 V rated value   | 1.2 A   |
| • at 440 V rated value   | 0.5 A   |
| • at 600 V rated value   | 0.26 A  |
| <b>operational current of auxiliary contacts at DC-13</b>          |   |
| • at 24 V  | 6 A   |
| • at 48 V  | 2 A   |
| • at 60 V  | 2 A   |
| • at 110 V   | 1 A   |
| • at 125 V   | 0.9 A   |
| • at 220 V   | 0.3 A   |
| • at 250 V   | 0.3 A   |
| <b>contact reliability of auxiliary contacts</b>                   | 1 faulty switching per 100 million (17 V, 1 mA) |
| <b>Ambient conditions</b>  |   |
| <b>ambient temperature</b>   |   |
| • during operation   | -25 ... +60 °C                                  |
| • during storage   | -55 ... +80 °C                                  |
| <b>Environmental footprint</b>                                     |   |
| Environmental Product Declaration(EPD)                             | Yes   |
| Global Warming Potential [CO2 eq] total                            | 0.788 kg  |
| Global Warming Potential [CO2 eq] during manufacturing             | 0.2 kg  |
| Global Warming Potential [CO2 eq] during operation                 | 0.56 kg   |
| Global Warming Potential [CO2 eq] after end of life                | 0.03 kg   |
| <b>Safety related data</b>   |   |
| <b>product function</b>  |   |
| • mirror contact according to IEC 60947-4-1                        | Yes; with 3RT2                                  |
| • positively driven operation according to IEC 60947-5-1           | No  |
| <b>Installation/ mounting/ dimensions</b>                          |   |
| <b>fastening method</b>  | snap-on mounting                                |
| <b>height</b>  | 64.8 mm   |
| <b>width</b>   | 10 mm   |
| <b>depth</b>   | 66 mm   |
| <b>Connections/ Terminals</b>                                      |   |
| type of electrical connection for auxiliary and control circuit    | spring-loaded terminals                         |
| <b>connectable conductor cross-section for auxiliary contacts</b>  |   |
| • solid or stranded  | 0.5 ... 2.5 mm <sup>2</sup>                     |
| • finely stranded with core end processing                         | 0.5 ... 2.5 mm <sup>2</sup>                     |
| • finely stranded without core end processing                      | 0.5 ... 2.5 mm <sup>2</sup>                     |
| <b>type of connectable conductor cross-sections</b>                |   |

|  |                                   |
|--|-----------------------------------|
| • for auxiliary contacts   | 2x (0.5 ... 2.5 mm <sup>2</sup> ) |
| — solid or stranded  | 2x (0.5 ... 1.5 mm <sup>2</sup> ) |
| — finely stranded with core end processing                                     | 2x (0.5 ... 2.5 mm <sup>2</sup> ) |
| — finely stranded without core end processing                                  | 2x (20 ... 14)                    |
| • for AWG cables for auxiliary contacts  | 20 ... 14                         |
| AWG number as coded connectable conductor cross section for auxiliary contacts |                                   |

### Approvals Certificates

#### General Product Approval



[Confirmation](#)



| General Product Approval | EMV | Test Certificates | Marine / Shipping |
|--------------------------|-----|-------------------|-------------------|
|--------------------------|-----|-------------------|-------------------|

[KC](#)



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



#### Marine / Shipping



| other | Railway | Environment |
|-------|---------|-------------|
|-------|---------|-------------|

[Miscellaneous](#)

[Confirmation](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



#### 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=3RH2921-2DA11>

##### Cax online generator

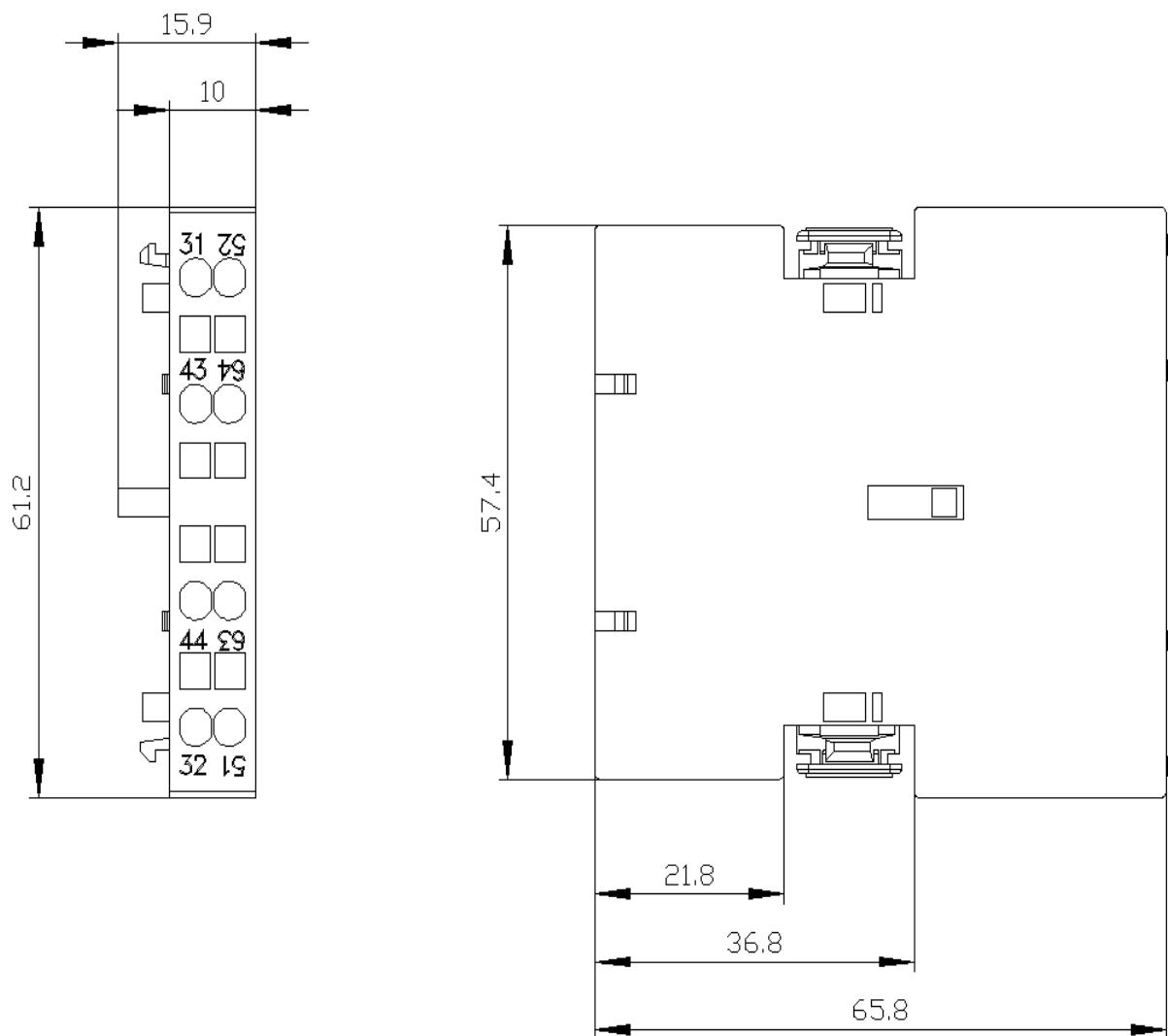
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2921-2DA11>

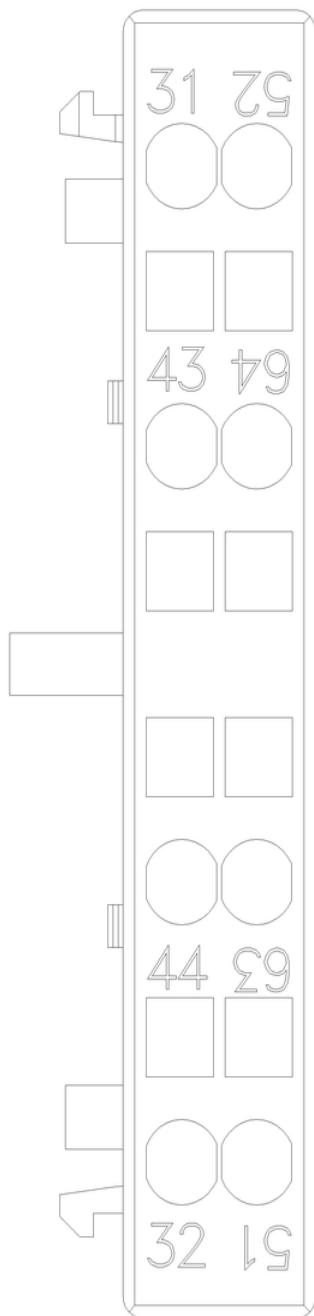
##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RH2921-2DA11>

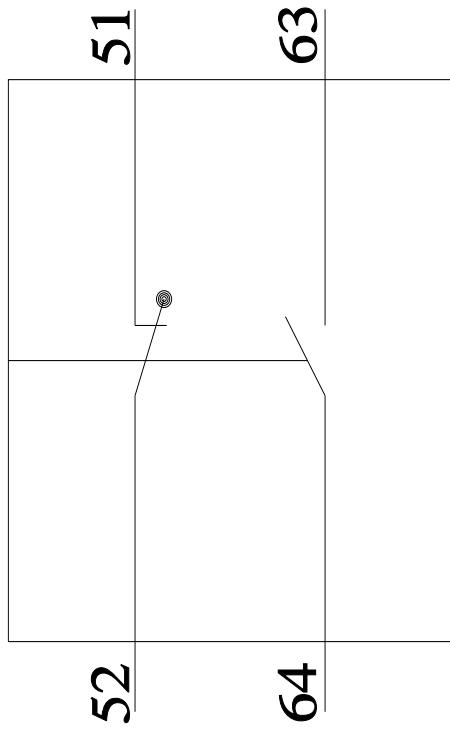
##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH2921-2DA11&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2921-2DA11&lang=en)

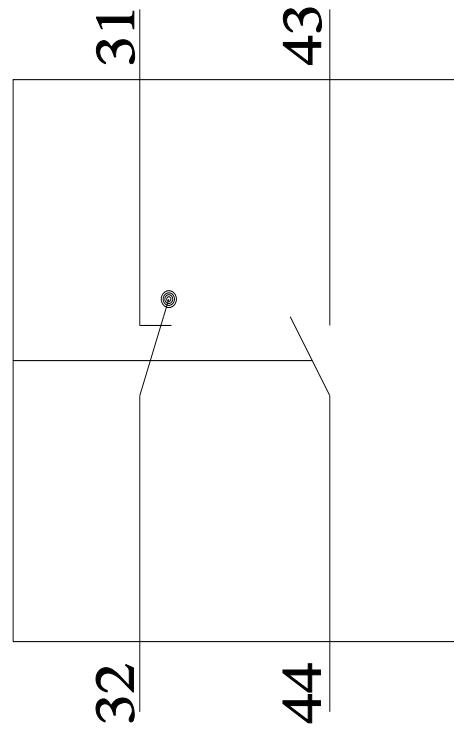




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