



auxiliary switch, lateral, 2 NO, on the left: 53/54, 63/64, on the right: 33/34, 43/44, current path: 1 NO, 1 NO, screw terminal, for contactors 3RT2 and contactor relays 3RH2

|  |                                  |
|--|----------------------------------|
| <b>product brand name</b>  | SIRIUS                           |
| <b>product category</b>  | Auxiliary switch                 |
| <b>product designation</b>   | auxiliary switch                 |
| <b>design of the product</b>   | first laterally mountable        |
| <b>product type designation</b>  | 3RH29                            |
| <b>suitability for use</b>   | 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                             |
| <b>mechanical service life (operating cycles) typical</b>                | 10 000 000                       |
| electrical endurance (operating cycles) at AC-15 at 230 V typical        | 200 000                          |
| <b>Substance Prohibition (Date)</b>                                      | 10/01/2009                       |
| <b>Weight</b>  | 0.039 kg                         |
| <b>number of NC contacts for auxiliary contacts</b>                      |                                  |
| • instantaneous contact  | 0                                |
| • lagging switching  | 0                                |
| <b>number of NO contacts for auxiliary contacts</b>                      |                                  |
| • instantaneous contact  | 2                                |
| • leading contact  | 0                                |
| <b>number of CO contacts of auxiliary contacts instantaneous contact</b> | 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                             |

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 220 V rated value</li> <li>• at 440 V rated value</li> <li>• at 600 V rated value</li> </ul>   | 10 A<br>4 A<br>2 A<br>1.3 A<br>0.65 A               |
| <b>operational current with 3 current paths in series at DC-12</b> <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 220 V rated value</li> <li>• at 440 V rated value</li> <li>• at 600 V rated value</li> </ul> | 10 A<br>10 A<br>10 A<br>3.6 A<br>2.5 A<br>1.8 A     |
| <b>operational current with 2 current paths in series at DC-13</b> <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 220 V rated value</li> <li>• at 440 V rated value</li> <li>• at 600 V rated value</li> </ul> | 10 A<br>3.5 A<br>1.3 A<br>0.9 A<br>0.2 A<br>0.1 A   |
| <b>operational current with 3 current paths in series at DC-13</b> <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 220 V rated value</li> <li>• at 440 V rated value</li> <li>• at 600 V rated value</li> </ul> | 10 A<br>4.7 A<br>3 A<br>1.2 A<br>0.5 A<br>0.26 A    |
| <b>operational current of auxiliary contacts at DC-13</b> <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 48 V</li> <li>• at 60 V</li> <li>• at 110 V</li> <li>• at 125 V</li> <li>• at 220 V</li> <li>• at 250 V</li> </ul>   | 6 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>0.3 A |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V   | C characteristic: 10 A; 0.4 kA                      |
| <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> <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>   | -25 ... +60 °C<br>-55 ... +80 °C                    |
| <b>Environmental footprint</b>  |   |
| Environmental Product Declaration (EPD)   | Yes   |
| global warming potential [CO <sub>2</sub> eq] total   | 0.788 kg  |
| global warming potential [CO <sub>2</sub> eq] during manufacturing  | 0.2 kg  |
| global warming potential [CO <sub>2</sub> eq] during operation  | 0.56 kg   |
| global warming potential [CO <sub>2</sub> eq] after end of life   | 0.03 kg   |
| <b>Safety related data</b>  |   |
| <b>product function</b> <ul style="list-style-type: none"> <li>• mirror contact according to IEC 60947-4-1</li> <li>• positively driven operation according to IEC 60947-5-1</li> </ul>   | Yes; with 3RT2<br>No                                |
| <b>Short-circuit protection</b>   |   |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V   | C characteristic: 10 A; 0.4 kA                      |
| design of the fuse link for short-circuit protection of the auxiliary switch required   | gG: 10 A (690 V, 1 kA)                              |
| <b>Installation/ mounting/ dimensions</b>   |   |
| <b>fastening method</b>   | snap-on mounting                                    |
| <b>height</b>   | 57.4 mm   |
| <b>width</b>  | 10 mm   |
| <b>depth</b>  | 66 mm   |

## Connections/ Terminals

|   |   |
|---|---|
| type of electrical connection for auxiliary and control circuit   | screw-type terminals  |
| <b>connectable conductor cross-section for auxiliary contacts</b>   |   |
| <ul style="list-style-type: none"> <li>• solid or stranded</li> </ul>   | 0.5 ... 2.5 mm <sup>2</sup>   |
| <ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>  | 0.5 ... 2.5 mm <sup>2</sup>   |
| <b>type of connectable conductor cross-sections</b>   |   |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts           <ul style="list-style-type: none"> <li>— solid or stranded</li> </ul> </li> </ul> | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| <ul style="list-style-type: none"> <li>— finely stranded with core end processing</li> </ul>  | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| <ul style="list-style-type: none"> <li>• for AWG cables for auxiliary contacts</li> </ul>   | 2x (20 ... 16), 2x (18 ... 14)  |
| <b>AWG number as coded connectable conductor cross section for auxiliary contacts</b>   | 20 ... 14   |

## Approvals Certificates

### General Product Approval



KC



| EMV | Test Certificates | Maritime application |
|-----|-------------------|----------------------|
|-----|-------------------|----------------------|



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



| Maritime application | other |
|----------------------|-------|
|----------------------|-------|



[Miscellaneous](#)

[Confirmation](#)

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

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



[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=3RH2921-1DA20>

### Cax online generator

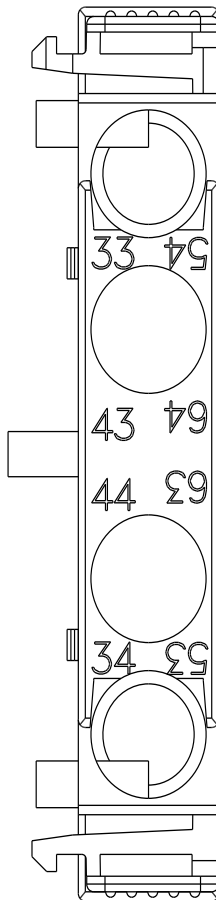
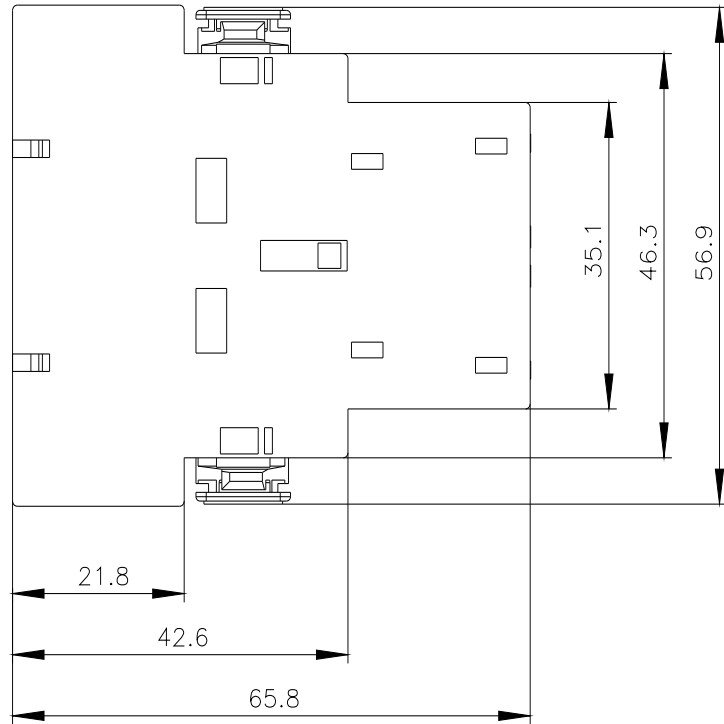
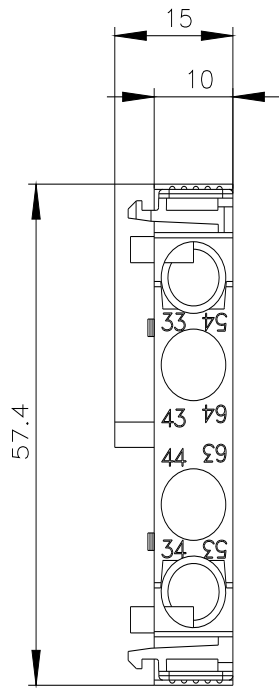
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2921-1DA20>

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

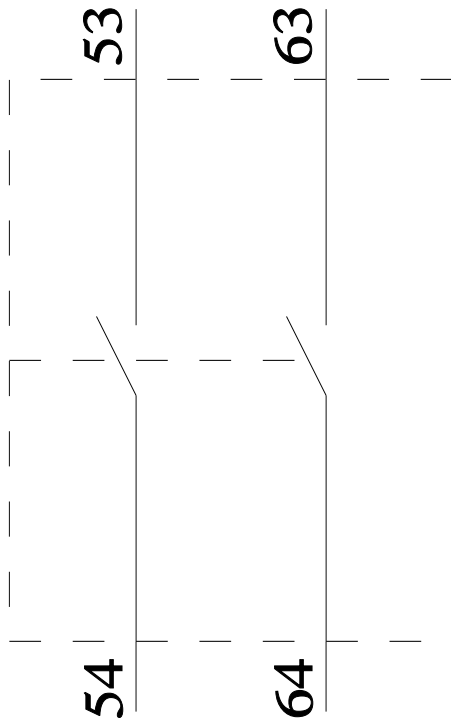
<https://support.industry.siemens.com/cs/ww/en/ps/3RH2921-1DA20>

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

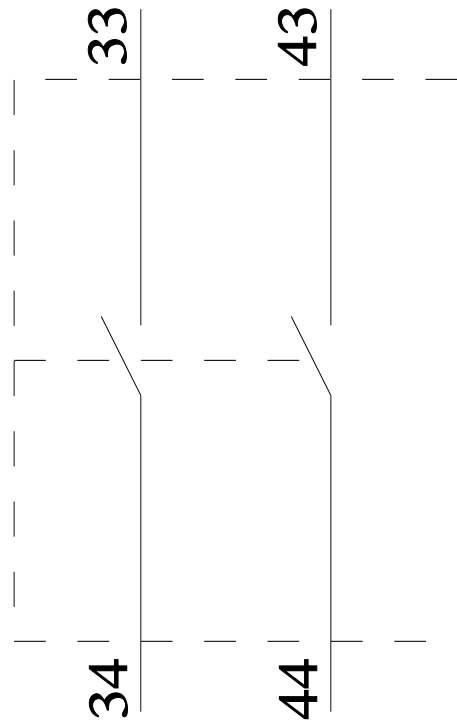
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH2921-1DA20&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2921-1DA20&lang=en)



## Links / left



## Rechts / right



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9/8/2025 