



front-side auxiliary switch, 2 NO contacts, 2 NC contacts, screw terminal, for contactors 3RT1, sequence numbers 5...8

|  |  |
|--|--|
| product brand name   | SIRIUS                                   |
| product category   | Auxiliary switch                         |
| product designation  | auxiliary switch                         |
| design of the product  | for snapping onto the front              |
| product type designation   | 3RH19                                    |
| suitability for use  | for 3RT10, 3RT12, 3RT145, 3RT146, 3RT147 |
| <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>                                      | 07/01/2006                               |
| <b>Weight</b>  | 0.075 kg                                 |
| <b>number of NC contacts for auxiliary contacts</b>                      |  |
| • instantaneous contact  | 2  |
| <b>number of NO contacts for auxiliary contacts</b>                      |  |
| • instantaneous contact  | 2  |
| <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                                     |
| • at 60 V rated value  | 10 A                                     |
| • at 110 V rated value   | 4 A                                      |

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> <li>• at 440 V rated value</li> <li>• at 600 V rated value</li> </ul>   | 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>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 3RT1<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 (500 V, 1 kA)  |
| <b>Installation/ mounting/ dimensions</b>  |   |
| <b>fastening method</b>  | snap-on mounting  |
| <b>height</b>  | 38 mm   |
| <b>width</b>   | 44 mm   |
| <b>depth</b>   | 51 mm   |
| <b>Connections/ Terminals</b>  |   |
| 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> <li>• finely stranded with core end processing</li> </ul>  | 0.5 ... 2.5 mm <sup>2</sup><br>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> ) |

— finely stranded with core end processing

- for AWG cables for auxiliary contacts

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)

2x (20 ... 16), 2x (18 ... 14)

**AWG number as coded connectable conductor cross section for auxiliary contacts**

20 ... 14

### Approvals Certificates

#### General Product Approval

#### Test Certificates



[Special Test Certificate](#)

#### Maritime application

#### other

#### Railway

#### Environment



[Confirmation](#)

[Special Test Certificate](#)

[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=3RH1921-1XA22-0MA0>

Cax online generator

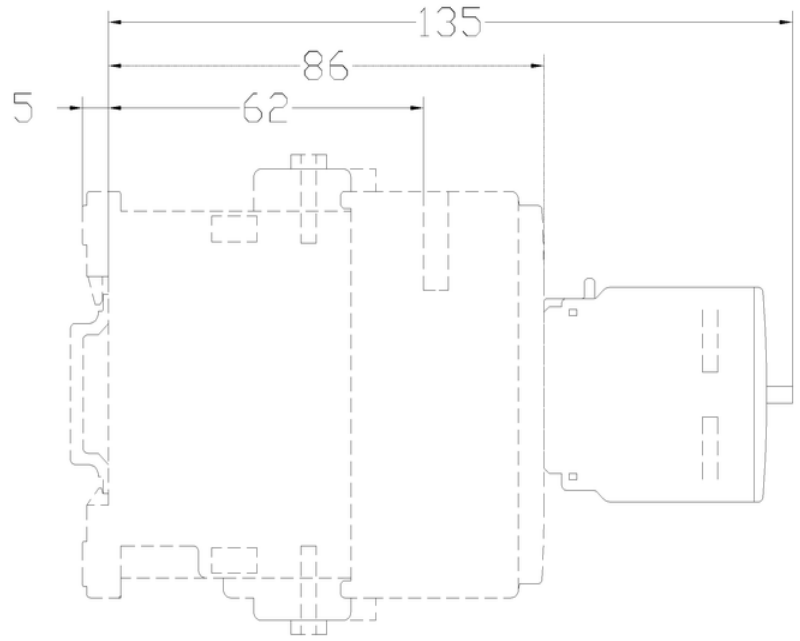
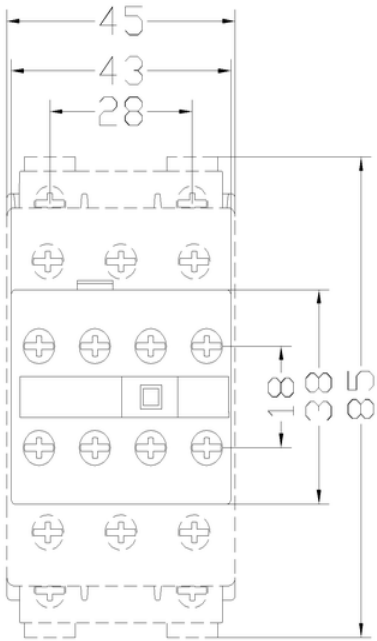
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1921-1XA22-0MA0>

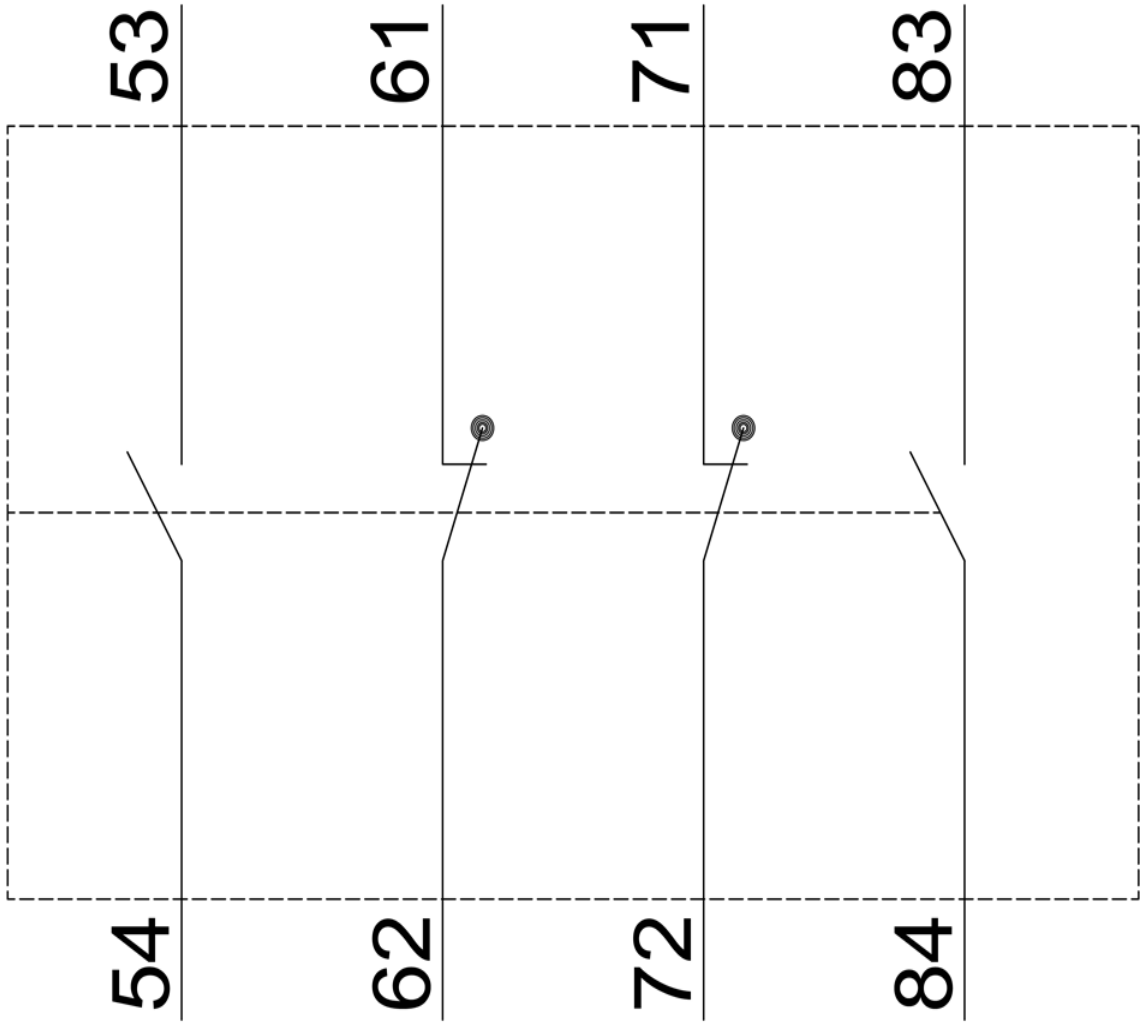
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1921-1XA22-0MA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1921-1XA22-0MA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1921-1XA22-0MA0&lang=en)





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