



front-side auxiliary switch, 1 NO, leading, screw terminal, for contactors 3RT1

|                                                                   |                                          |
|-------------------------------------------------------------------|------------------------------------------|
| 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                                    |
| surge voltage resistance rated value                              | 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 (day/month/year)                           | 07/01/2006                               |
| Net Weight                                                        | 0.021 g                                  |
| number of NC contacts for auxiliary contacts                      |                                          |
| • instantaneous contact                                           | 0                                        |
| number of NO contacts for auxiliary contacts                      |                                          |
| • instantaneous contact                                           | 0                                        |
| number of CO contacts of auxiliary contacts instantaneous contact | 0                                        |
| operational current at AC-15 at 690 V rated value                 | 1 A                                      |
| operational current of auxiliary contacts at AC-12                |                                          |
| • at 24 V                                                         | 10 A                                     |
| • at 230 V                                                        | 10 A                                     |
| operational current of auxiliary contacts at AC-14                |                                          |
| • at 125 V                                                        | 6 A                                      |
| • at 250 V                                                        | 6 A                                      |
| operational current of auxiliary contacts at AC-12 maximum        | 10 A                                     |
| operational current of auxiliary contacts at AC-15                |                                          |
| • at 24 V                                                         | 6 A                                      |
| • at 230 V                                                        | 6 A                                      |
| • at 400 V                                                        | 3 A                                      |
| operational current of auxiliary contacts at DC-12                |                                          |
| • at 24 V                                                         | 10 A                                     |
| • at 110 V                                                        | 3 A                                      |
| • at 220 V                                                        | 1 A                                      |
| operational current with 2 current paths in series at DC-12       |                                          |
| • at 24 V rated value                                             | 10 A                                     |
| • at 60 V rated value                                             | 10 A                                     |

|                                                                                                                                                                                                                                                                                                           |                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <ul style="list-style-type: none"> <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>                                                                                                                                  | 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>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>                                                                                                                                                                                                                                                                                              | 10 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 mm²<br>0.5 ... 2.5 mm²                  |

|                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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> <li>— finely stranded with core end processing</li> </ul> </li> <li>• for AWG cables for auxiliary contacts</li> </ul> | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14) |
| <b>AWG number as coded connectable conductor cross section for auxiliary contacts</b>                                                                                                                                                                                                                      | 20 ... 14                                                                                                                                                                        |

#### Approvals Certificates

|             |                          |
|-------------|--------------------------|
| Environment | General Product Approval |
|-------------|--------------------------|

[Environmental Confirmations](#)



|                   |                      |       |         |
|-------------------|----------------------|-------|---------|
| Test Certificates | Maritime application | other | Railway |
|-------------------|----------------------|-------|---------|

[Special Test Certificate](#)



[Confirmation](#)



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#### 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=3RH1921-1CD10>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1921-1CD10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1921-1CD10>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1921-1CD10&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1921-1CD10&lang=en)



