



auxiliary switch, on the front, 2 NO + 2 NC, 53/54, 61/62, 71/72, 83/84, current path: 1 NO, 1 NC, 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                                             | for snapping onto the front              |
| product type designation                                          | 3RH29                                    |
| suitability for use                                               | for 3RT2.1, 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                                    |
| 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)                           | 10/01/2009                               |
| Net Weight                                                        | 59 g                                     |
| number of NC contacts for auxiliary contacts                      |                                          |
| • instantaneous contact                                           | 2                                        |
| • lagging switching                                               | 0                                        |
| number of NO contacts for auxiliary contacts                      |                                          |
| • instantaneous contact                                           | 2                                        |
| • 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                                      |
| 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       |                                          |

|                                                                                                                                                                                                                                                                                                           |                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <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>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 3RT2<br>Yes                               |
| <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>                                                                                                                                                                                                                                                                                             | 41.5 mm                                             |
| <b>width</b>                                                                                                                                                                                                                                                                                              | 36 mm                                               |
| <b>depth</b>                                                                                                                                                                                                                                                                                              | 47.7 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>                                                                                                                                                                                                                                         |                                                     |

|                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <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>                                                                                                   |
| <ul style="list-style-type: none"> <li>• finely stranded without 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> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul> </li> <li>• for AWG cables for auxiliary contacts</li> </ul> | 2x (0.5 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> )<br>2x (0.5 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 14) |
| <b>AWG number as coded connectable conductor cross section for auxiliary contacts</b>                                                                                                                                                                                                                                                                             | 20 ... 14                                                                                                                     |

#### Approvals Certificates

|                                                                                                              |                                 |
|--------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Environmental Product Declaration</b>                                                                     |                                 |
| <ul style="list-style-type: none"> <li>• global warming potential [CO2 eq] / during manufacturing</li> </ul> | 0.34 kg                         |
| <ul style="list-style-type: none"> <li>• global warming potential [CO2 eq] / during operation</li> </ul>     | 0.562 kg                        |
| <ul style="list-style-type: none"> <li>• global warming potential [CO2 eq] / after end of life</li> </ul>    | 0.0172 kg                       |
| <ul style="list-style-type: none"> <li>• global warming potential [CO2 eq] / total</li> </ul>                | 0.92 kg                         |
| <b>Environment</b>                                                                                           | <b>General Product Approval</b> |

[Environmental Confirmations](#)



|                                 |            |                                              |                                                    |                                          |
|---------------------------------|------------|----------------------------------------------|----------------------------------------------------|------------------------------------------|
| <b>General Product Approval</b> | <b>EMV</b> | <b>Functional Safety</b>                     | <b>Test Certificates</b>                           | <b>Maritime application</b>              |
|                                 |            | <a href="#">Type Examination Certificate</a> | <a href="#">Type Test Certificates/Test Report</a> | <a href="#">Special Test Certificate</a> |
|                                 |            |                                              |                                                    |                                          |

|                             |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|
| <b>Maritime application</b> |  |  |  |  |  |
|                             |  |  |  |  |  |

|                                  |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| <b>other</b>                     | <b>Railway</b>                                                            |
| <a href="#">Confirmation</a><br> | <a href="#">Miscellaneous</a><br><a href="#">Special Test Certificate</a> |

#### 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=3RH2911-2XA22-0MA0>

##### Cax online generator

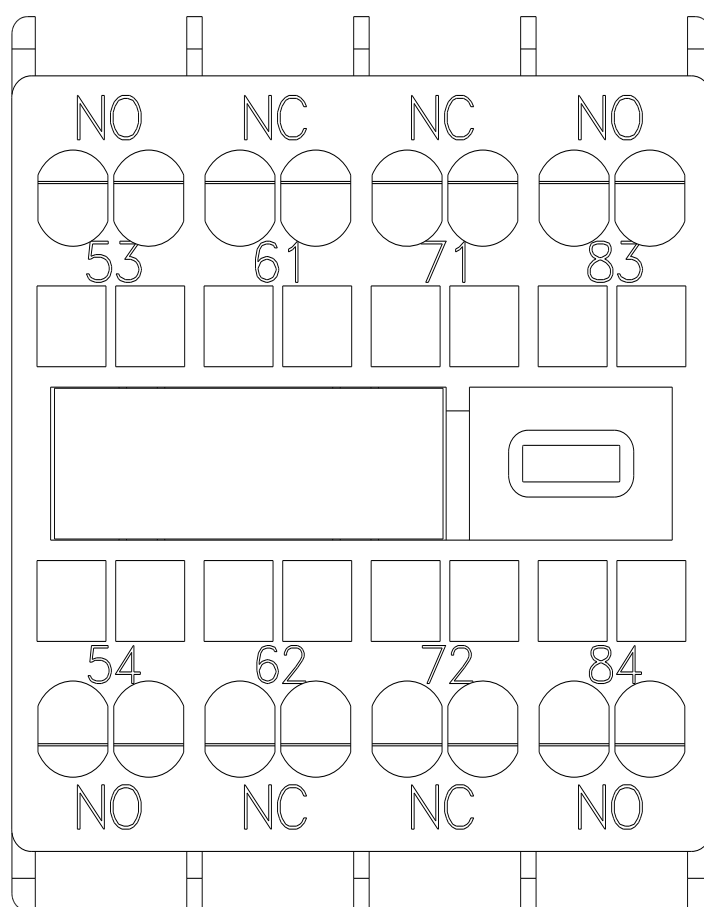
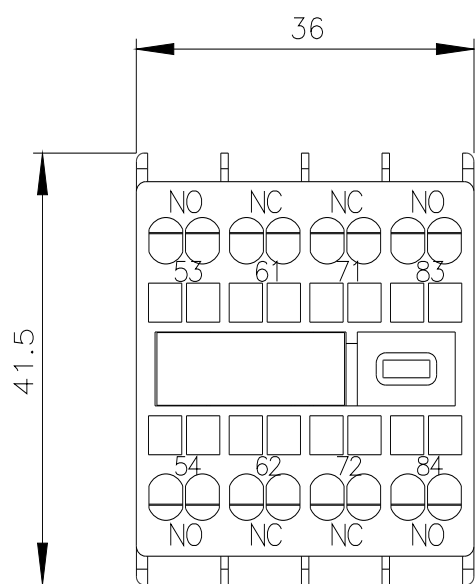
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2911-2XA22-0MA0>

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

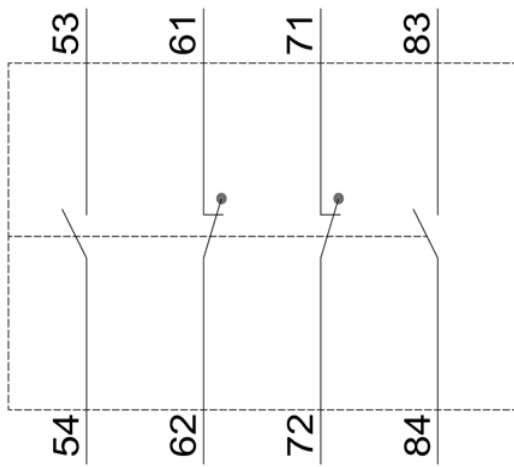
<https://support.industry.siemens.com/cs/ww/en/ps/3RH2911-2XA22-0MA0>

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

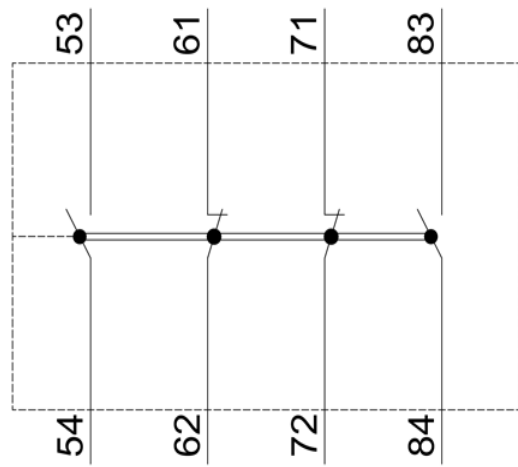
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH2911-2XA22-0MA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-2XA22-0MA0&lang=en)



3RT2



3RH2



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