



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.22...0.32 A N-release 4.2 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

|                                                                 |                      |
|-----------------------------------------------------------------|----------------------|
| product brand name                                              | SIRIUS               |
| product designation                                             | Circuit breaker      |
| design of the product                                           | For motor protection |
| product type designation                                        | 3RV2                 |
| <b>General technical data</b>                                   |                      |
| size of the circuit-breaker                                     | S00                  |
| size of contactor can be combined company-specific              | S00, S0              |
| product extension auxiliary switch                              | Yes                  |
| power loss [W] for rated value of the current                   |                      |
| • at AC in hot operating state                                  | 5.5 W                |
| • at AC in hot operating state per pole                         | 1.8 W                |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V                |
| surge voltage resistance rated value                            | 6 kV                 |
| shock resistance according to IEC 60068-2-27                    | 25g / 11 ms          |
| mechanical service life (operating cycles)                      |                      |
| • of the main contacts typical                                  | 100 000              |
| • of auxiliary contacts typical                                 | 100 000              |
| electrical endurance (operating cycles) typical                 | 100 000              |
| reference code according to IEC 81346-2                         | Q                    |
| Substance Prohibition (Date)                                    | 10/01/2009           |
| SVHC substance name                                             | Lead - 7439-92-1     |
| Net Weight                                                      | 294 g                |
| <b>Ambient conditions</b>                                       |                      |
| installation altitude at height above sea level maximum         | 2 000 m              |
| ambient temperature                                             |                      |
| • during operation                                              | -20 ... +60 °C       |
| • during storage                                                | -50 ... +80 °C       |
| • during transport                                              | -50 ... +80 °C       |
| relative humidity during operation                              | 10 ... 95 %          |
| <b>Environmental footprint</b>                                  |                      |
| Environmental Product Declaration (EPD)                         | Yes                  |
| global warming potential [CO2 eq] total                         | 74.698 kg            |
| global warming potential [CO2 eq] during manufacturing          | 1.98 kg              |
| global warming potential [CO2 eq] during sales                  | 0.134 kg             |
| global warming potential [CO2 eq] during operation              | 72.7 kg              |
| global warming potential [CO2 eq] after end of life             | -0.116 kg            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Siemens Eco Profile (SEP)                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Siemens EcoTech                                                                |
| <b>Main circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                |
| <b>number of poles for main current circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                                                                              |
| <b>adjustable current response value current of the current-dependent overload release</b>                                                                                                                                                                                                                                                                                                                                                                                             | 0.22 ... 0.32 A                                                                |
| <b>type of voltage for main current circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        | AC                                                                             |
| <b>operating voltage</b> <ul style="list-style-type: none"> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> <li>• at AC-3e rated value maximum</li> </ul>                                                                                                                                                                                                                                                                                                                | 20 ... 690 V<br>690 V<br>690 V                                                 |
| <b>operating frequency rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 50 ... 60 Hz                                                                   |
| <b>operational current rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.32 A                                                                         |
| <b>operational current</b> <ul style="list-style-type: none"> <li>• at AC-3 at 400 V rated value</li> <li>• at AC-3e at 400 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                   | 0.32 A<br>0.32 A                                                               |
| <b>operating power</b> <ul style="list-style-type: none"> <li>• at AC-3               <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> <li>• at AC-3e               <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> </ul> | 0 kW<br>0.09 kW<br>0.1 kW<br>0.1 kW<br><br>0 kW<br>0.09 kW<br>0.1 kW<br>0.1 kW |
| <b>operating frequency</b> <ul style="list-style-type: none"> <li>• at AC-3 maximum</li> <li>• at AC-3e maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                             | 15 1/h<br>15 1/h                                                               |
| <b>Auxiliary circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                |
| <b>design of the auxiliary switch</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | transverse                                                                     |
| <b>type of voltage for auxiliary and control circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                               | AC/DC                                                                          |
| <b>number of NC contacts for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                                              |
| <b>number of NO contacts for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                                              |
| number of CO contacts for auxiliary contacts                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0                                                                              |
| <b>operational current of auxiliary contacts at AC-15</b> <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 120 V</li> <li>• at 125 V</li> <li>• at 230 V</li> </ul>                                                                                                                                                                                                                                                                                                      | 2 A<br>0.5 A<br>0.5 A<br>0.5 A                                                 |
| <b>operational current of auxiliary contacts at DC-13</b> <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 60 V</li> </ul>                                                                                                                                                                                                                                                                                                                                               | 1 A<br>0.15 A                                                                  |
| <b>Protective and monitoring functions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                |
| <b>product function</b> <ul style="list-style-type: none"> <li>• ground fault detection</li> <li>• phase failure detection</li> </ul>                                                                                                                                                                                                                                                                                                                                                  | No<br>Yes                                                                      |
| <b>trip class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CLASS 10                                                                       |
| <b>design of the overload release</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | thermal                                                                        |
| <b>maximum short-circuit current breaking capacity (I<sub>cu</sub>)</b> <ul style="list-style-type: none"> <li>• at AC at 240 V rated value</li> <li>• at AC at 400 V rated value</li> <li>• at AC at 500 V rated value</li> <li>• at AC at 690 V rated value</li> </ul>                                                                                                                                                                                                               | 100 kA<br>100 kA<br>100 kA<br>100 kA                                           |
| <b>operating short-circuit current breaking capacity (I<sub>cs</sub>) at AC</b> <ul style="list-style-type: none"> <li>• at 240 V rated value</li> <li>• at 400 V rated value</li> <li>• at 500 V rated value</li> <li>• at 690 V rated value</li> </ul>                                                                                                                                                                                                                               | 100 kA<br>100 kA<br>100 kA<br>100 kA                                           |

|                                                                      |                                                                                         |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| response value current of instantaneous short-circuit trip unit      | 4.2 A                                                                                   |
| <b>UL/CSA ratings</b>                                                |                                                                                         |
| <b>full-load current (FLA) for 3-phase AC motor</b>                  |                                                                                         |
| • at 480 V rated value                                               | 0.32 A                                                                                  |
| • at 600 V rated value                                               | 0.32 A                                                                                  |
| <b>contact rating of auxiliary contacts according to UL</b>          | C300 / R300                                                                             |
| <b>Category Control Number (CCN)</b>                                 | E156943 (NKJH, NKJH7)                                                                   |
| <b>Short-circuit protection</b>                                      |                                                                                         |
| <b>product function short circuit protection</b>                     | Yes                                                                                     |
| <b>design of the short-circuit trip</b>                              | magnetic                                                                                |
| <b>design of the fuse link</b>                                       |                                                                                         |
| • for short-circuit protection of the auxiliary switch required      | Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current $I_k < 400$ A) |
| <b>Installation/ mounting/ dimensions</b>                            |                                                                                         |
| <b>mounting position</b>                                             | any                                                                                     |
| <b>fastening method</b>                                              | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715                |
| <b>height</b>                                                        | 97 mm                                                                                   |
| <b>width</b>                                                         | 45 mm                                                                                   |
| <b>depth</b>                                                         | 97 mm                                                                                   |
| <b>required spacing</b>                                              |                                                                                         |
| • with side-by-side mounting at the side                             | 0 mm                                                                                    |
| • for grounded parts at 400 V                                        |                                                                                         |
| — downwards                                                          | 30 mm                                                                                   |
| — upwards                                                            | 30 mm                                                                                   |
| — at the side                                                        | 9 mm                                                                                    |
| • for live parts at 400 V                                            |                                                                                         |
| — downwards                                                          | 30 mm                                                                                   |
| — upwards                                                            | 30 mm                                                                                   |
| — at the side                                                        | 9 mm                                                                                    |
| • for grounded parts at 500 V                                        |                                                                                         |
| — downwards                                                          | 30 mm                                                                                   |
| — upwards                                                            | 30 mm                                                                                   |
| — at the side                                                        | 9 mm                                                                                    |
| • for live parts at 500 V                                            |                                                                                         |
| — downwards                                                          | 30 mm                                                                                   |
| — upwards                                                            | 30 mm                                                                                   |
| — at the side                                                        | 9 mm                                                                                    |
| • for grounded parts at 690 V                                        |                                                                                         |
| — downwards                                                          | 50 mm                                                                                   |
| — upwards                                                            | 50 mm                                                                                   |
| — backwards                                                          | 0 mm                                                                                    |
| — at the side                                                        | 30 mm                                                                                   |
| — forwards                                                           | 0 mm                                                                                    |
| • for live parts at 690 V                                            |                                                                                         |
| — downwards                                                          | 50 mm                                                                                   |
| — upwards                                                            | 50 mm                                                                                   |
| — backwards                                                          | 0 mm                                                                                    |
| — at the side                                                        | 30 mm                                                                                   |
| — forwards                                                           | 0 mm                                                                                    |
| <b>Connections/ Terminals</b>                                        |                                                                                         |
| <b>type of electrical connection</b>                                 |                                                                                         |
| • for main current circuit                                           | screw-type terminals                                                                    |
| • for auxiliary and control circuit                                  | screw-type terminals                                                                    |
| <b>arrangement of electrical connectors for main current circuit</b> | Top and bottom                                                                          |
| <b>type of connectable conductor cross-sections</b>                  |                                                                                         |
| • for main contacts                                                  |                                                                                         |
| — solid or stranded                                                  | 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>                                |
| — finely stranded with core end processing                           | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )                   |

|                                                     |                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------|
| • for AWG cables for main contacts                  | 2x (18 ... 14), 2x 12                                                 |
| <b>type of connectable conductor cross-sections</b> |                                                                       |
| • for auxiliary contacts                            |                                                                       |
| — solid or stranded                                 | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| — finely stranded with core end processing          | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| • for AWG cables for auxiliary contacts             | 2x (20 ... 16), 2x (18 ... 14)                                        |
| <b>tightening torque</b>                            |                                                                       |
| • for main contacts with screw-type terminals       | 0.8 ... 1.2 N·m                                                       |
| • for auxiliary contacts with screw-type terminals  | 0.8 ... 1.2 N·m                                                       |
| <b>design of screwdriver shaft</b>                  | Diameter 5 to 6 mm                                                    |
| <b>size of the screwdriver tip</b>                  | Pozidriv size 2                                                       |
| <b>design of the thread of the connection screw</b> |                                                                       |
| • for main contacts                                 | M3                                                                    |
| • of the auxiliary and control contacts             | M3                                                                    |

#### Safety related data

|                                                                      |        |
|----------------------------------------------------------------------|--------|
| product function suitable for safety function                        | Yes    |
| <b>suitability for use</b>                                           |        |
| • safety-related switching on                                        | No     |
| • safety-related switching OFF                                       | Yes    |
| <b>service life maximum</b>                                          | 10 a   |
| <b>test wear-related service life necessary</b>                      | Yes    |
| <b>proportion of dangerous failures</b>                              |        |
| • with low demand rate according to SN 31920                         | 40 %   |
| • with high demand rate according to SN 31920                        | 50 %   |
| <b>B10 value with high demand rate according to SN 31920</b>         | 5 000  |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b> | 50 FIT |

#### ISO 13849

|                                                            |     |
|------------------------------------------------------------|-----|
| <b>device type according to ISO 13849-1</b>                | 3   |
| <b>overdimensioning according to ISO 13849-2 necessary</b> | Yes |

#### IEC 61508

|                                                                  |        |
|------------------------------------------------------------------|--------|
| <b>safety device type according to IEC 61508-2</b>               | Type A |
| <b>T1 value</b>                                                  |        |
| • for proof test interval or service life according to IEC 61508 | 10 a   |

#### Electrical Safety

|                                                                |                                                  |
|----------------------------------------------------------------|--------------------------------------------------|
| <b>protection class IP on the front according to IEC 60529</b> | IP20                                             |
| <b>touch protection on the front according to IEC 60529</b>    | finger-safe, for vertical contact from the front |

#### Display

|                                      |        |
|--------------------------------------|--------|
| display version for switching status | Handle |
|--------------------------------------|--------|

#### Approvals Certificates

##### General Product Approval



[KC](#)



##### General Product Approval For use in hazardous locations Test Certificates



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

##### Maritime application



#### other

[Miscellaneous](#)



[Confirmation](#)



[Special Test Certificate](#)

[Confirmation](#)

#### Environment



[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=3RV2011-0DA15>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA15>

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

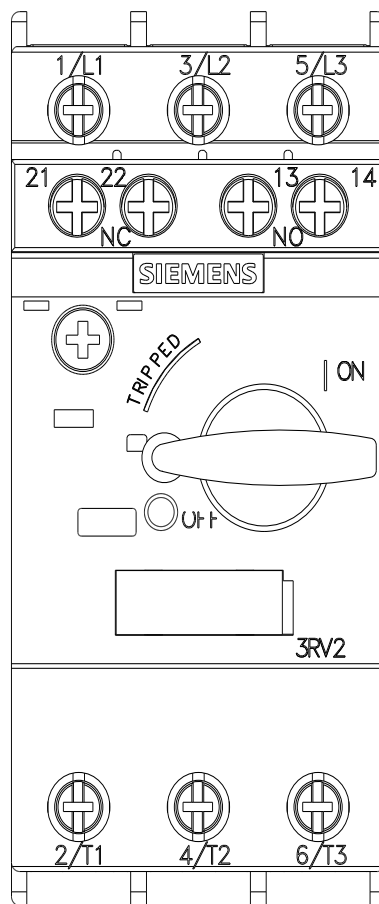
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV2011-0DA15&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0DA15&lang=en)

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0DA15>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





last modified:

11/13/2025 