



Circuit breaker size S00 for fuse monitoring Screw terminal A-release 0.2 A N-release 1.2 A

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|------------------------------------------------------------------------------------------------|---------------------|
| product brand name                                                                             | SIRIUS              |
| product designation                                                                            | Circuit breaker     |
| design of the product                                                                          | for fuse monitoring |
| product type designation                                                                       | 3RV1                |
| <b>General technical data</b>                                                                  |                     |
| Product equipment of circuit breaker for motor protection complete unit with protection device | Yes                 |
| size of the circuit-breaker                                                                    | S00                 |
| product function disconnecter functionality                                                    | Yes                 |
| 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               |
| type of calculation of power loss current-dependent                                            | quadratic           |
| insulation voltage with degree of pollution 3 at AC rated value                                | 690 V               |
| surge voltage resistance rated value                                                           | 6 kV                |
| maximum permissible voltage for protective separation                                          |                     |
| • in networks with ungrounded star point between main and auxiliary circuit                    | 400 V               |
| • in networks with grounded star point between main and auxiliary circuit                      | 400 V               |
| protection class IP                                                                            |                     |
| • on the front according to IEC 60529                                                          | IP20                |
| • on the front                                                                                 | IP20                |
| • of the terminal                                                                              | IP00                |
| 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                   |
| continuous current rated value                                                                 | 0.2 A               |
| Substance Prohibitance (day/month/year)                                                        | 01/01/2013          |
| Net Weight                                                                                     | 209.58 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      |
| temperature compensation                                                                       | -20 ... +60 °C      |

|                                                                                                                                                                                                                                                                                          |                                                                          |
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| relative humidity during operation                                                                                                                                                                                                                                                       | 10 ... 95 %                                                              |
| <b>Main circuit</b>                                                                                                                                                                                                                                                                      |                                                                          |
| number of poles for main current circuit                                                                                                                                                                                                                                                 | 3                                                                        |
| type of voltage for main current circuit                                                                                                                                                                                                                                                 | AC/DC                                                                    |
| operating voltage <ul style="list-style-type: none"> <li>• rated value</li> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> <li>• at AC-3e rated value maximum</li> </ul>                                                                                                  | 690 V<br>20 ... 690 V<br>690 V<br>690 V                                  |
| operating frequency rated value                                                                                                                                                                                                                                                          | 50 ... 60 Hz                                                             |
| operational current rated value                                                                                                                                                                                                                                                          | 0.2 A                                                                    |
| operational current <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>                                                                                                                                            | 0.2 A<br>0.2 A                                                           |
| operating frequency <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>                                                                                                                                                                                                                                                                 |                                                                          |
| type of voltage for auxiliary and control circuit                                                                                                                                                                                                                                        | AC/DC                                                                    |
| number of NC contacts for auxiliary contacts                                                                                                                                                                                                                                             | 0                                                                        |
| number of NO contacts for auxiliary contacts                                                                                                                                                                                                                                             | 0                                                                        |
| number of CO contacts for auxiliary contacts                                                                                                                                                                                                                                             | 0                                                                        |
| <b>Protective and monitoring functions</b>                                                                                                                                                                                                                                               |                                                                          |
| product function <ul style="list-style-type: none"> <li>• ground fault detection</li> <li>• phase failure detection</li> </ul>                                                                                                                                                           | No<br>Yes                                                                |
| design of the overload release                                                                                                                                                                                                                                                           | thermal                                                                  |
| protection function thermal overload protection (ANSI 49)                                                                                                                                                                                                                                | Yes                                                                      |
| maximum short-circuit current breaking capacity (Icu) <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                                     |
| operating short-circuit current breaking capacity (Ics) at AC <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                                     |
| short-circuit current breaking capacity (Icn) <ul style="list-style-type: none"> <li>• at 1 current path at DC at 150 V rated value</li> <li>• with 2 current paths in series at DC at 300 V rated value</li> <li>• with 3 current paths in series at DC at 450 V rated value</li> </ul> | 10 kA<br>10 kA<br>10 kA                                                  |
| response value current of instantaneous short-circuit trip unit                                                                                                                                                                                                                          | 1.2 A                                                                    |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                    |                                                                          |
| full-load current (FLA) for 3-phase AC motor <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul>                                                                                                                                    | 0.2 A<br>0.2 A                                                           |
| <b>Short-circuit protection</b>                                                                                                                                                                                                                                                          |                                                                          |
| product function short circuit protection                                                                                                                                                                                                                                                | Yes                                                                      |
| design of the short-circuit trip                                                                                                                                                                                                                                                         | magnetic                                                                 |
| design of the fuse link for IT network for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 400 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>                                                                         | none required<br>None required<br>None required<br>None required         |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                |                                                                          |
| mounting position                                                                                                                                                                                                                                                                        | any                                                                      |
| fastening method                                                                                                                                                                                                                                                                         | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                |
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| <b>Mounting method of circuit breaker for Transformer protection, Generator protection and system protection optional standard bar mounting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes                                                                                                                                                                            |
| <b>height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 90 mm                                                                                                                                                                          |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 45 mm                                                                                                                                                                          |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 75 mm                                                                                                                                                                          |
| <b>required spacing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• for grounded parts at 400 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> <li>• for live parts at 400 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts at 500 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> <li>• for live parts at 500 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts at 690 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— backwards</li> <li>— at the side</li> <li>— forwards</li> </ul> </li> <li>• for live parts at 690 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— backwards</li> <li>— at the side</li> <li>— forwards</li> </ul> </li> </ul> | 20 mm<br>20 mm<br>9 mm<br><br>20 mm<br>20 mm<br>9 mm<br><br>20 mm<br>20 mm<br>9 mm<br><br>20 mm<br>20 mm<br>0 mm<br>9 mm<br>0 mm<br><br>20 mm<br>20 mm<br>0 mm<br>9 mm<br>0 mm |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                |
| <b>product component removable terminal for auxiliary and control circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No                                                                                                                                                                             |
| <b>type of electrical connection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | screw-type terminals                                                                                                                                                           |
| <b>arrangement of electrical connectors for main current circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Top and bottom                                                                                                                                                                 |
| <b>type of connectable conductor cross-sections</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), 2x (1 ... 4 mm²)<br>2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²)                                                                   |
| <b>connectable conductor cross-section for main contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0,5 ... 4 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> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²)                                                                                                                                    |
| <b>AWG number as coded connectable conductor cross section for main contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 18 ... 14                                                                                                                                                                      |
| <b>tightening torque</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• for main contacts with screw-type terminals</li> <li>• for auxiliary contacts with screw-type terminals</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0,8 ... 1,2 N·m<br>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                                               |
| Electrical Safety                                       |                                                  |
| protection class IP on the front according to IEC 60529 | IP20                                             |
| touch protection on the front according to IEC 60529    | finger-safe, for vertical contact from the front |
| Display                                                 |                                                  |
| display version for switching status                    | Rocker switch                                    |
| Approvals Certificates                                  |                                                  |
| Environment                                             | General Product Approval                         |

[Environmental Confirmations](#)



|                          |                   |                      |
|--------------------------|-------------------|----------------------|
| General Product Approval | Test Certificates | Maritime application |
|--------------------------|-------------------|----------------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



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



[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)



[Special Test Certificate](#)

#### 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=3RV1611-0BD10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1611-0BD10>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1611-0BD10&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1611-0BD10&lang=en)

##### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1611-0BD10>

##### Kennlinien

<https://curves.simarisiemens.com/curves/3RV1611-0BD10>



