

CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.0.55...0.8A, N-REL.10 A SCREW CONNECTION, STANDARD SWITCHING CAPACITY MULTI - UNIT PACKAGE PACKAGE = 24 UNITS

|                                                                                                |                        |
|------------------------------------------------------------------------------------------------|------------------------|
| product brand name                                                                             | SIRIUS                 |
| product designation                                                                            | Circuit breaker        |
| design of the product                                                                          | For motor protection   |
| product type designation                                                                       | 3RV2                   |
| <b>General technical data</b>                                                                  |                        |
| Product equipment of circuit breaker for motor protection complete unit with protection device | Yes                    |
| type of calculation of power loss current-dependent                                            | quadratic              |
| protection class IP                                                                            |                        |
| • on the front according to IEC 60529                                                          | IP20                   |
| continuous current rated value                                                                 | 0.8 A                  |
| Substance Prohibitance (day/month/year)                                                        | 10/01/2009             |
| SVHC substance name                                                                            | Lead CAS-No. 7439-92-1 |
| Net Weight                                                                                     | 0.274 kg               |
| <b>Main circuit</b>                                                                            |                        |
| type of voltage for main current circuit                                                       | AC                     |
| operating voltage                                                                              |                        |
| • rated value                                                                                  | 20 ... 690 V           |
| • at AC-3 rated value maximum                                                                  | 690 V                  |
| • at AC-3e rated value maximum                                                                 | 690 V                  |
| operational current rated value                                                                | 0.8 A                  |
| operational current                                                                            |                        |
| • at AC-3 at 400 V rated value                                                                 | 0.8 A                  |
| • at AC-3e at 400 V rated value                                                                | 0.8 A                  |
| operating power                                                                                |                        |
| • at AC-3                                                                                      |                        |
| — at 230 V rated value                                                                         | 0.1 kW                 |
| — at 400 V rated value                                                                         | 0.18 kW                |
| — at 500 V rated value                                                                         | 0.3 kW                 |
| — at 690 V rated value                                                                         | 0.4 kW                 |
| • at AC-3e                                                                                     |                        |
| — at 230 V rated value                                                                         | 0.1 kW                 |
| — at 400 V rated value                                                                         | 0.18 kW                |
| — at 500 V rated value                                                                         | 0.3 kW                 |
| — at 690 V rated value                                                                         | 0.4 kW                 |
| operating frequency                                                                            |                        |
| • at AC-3 maximum                                                                              | 15 1/h                 |
| • at AC-3e maximum                                                                             | 15 1/h                 |
| <b>Protective and monitoring functions</b>                                                     |                        |
| trip class                                                                                     | CLASS 10               |
| maximum short-circuit current breaking capacity (Icu)                                          |                        |
| • at AC at 240 V rated value                                                                   | 100 kA                 |
| • at AC at 400 V rated value                                                                   | 100 kA                 |
| • at AC at 500 V rated value                                                                   | 100 kA                 |
| • at AC at 690 V rated value                                                                   | 100 kA                 |
| operating short-circuit current breaking capacity (Ics) at AC                                  |                        |
| • at 240 V rated value                                                                         | 100 kA                 |
| • at 400 V rated value                                                                         | 100 kA                 |
| • at 500 V rated value                                                                         | 100 kA                 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| • at 690 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100 kA                                             |
| response value current of instantaneous short-circuit trip unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10 A                                               |
| <b>UL/CSA ratings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |
| UL File Number (CCN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E47705 (NLRV, NLRV7)                               |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |
| Mounting method of circuit breaker for Transformer protection, Generator protection and system protection optional standard bar mounting                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes                                                |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |
| 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                                             |
| <b>ISO 13849</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |
| device type according to ISO 13849-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3                                                  |
| overdimensioning according to ISO 13849-2 necessary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Yes                                                |
| <b>IEC 61508</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |
| safety device type according to IEC 61508-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Type A                                             |
| <b>Electrical Safety</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    |
| 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   |
| <b>Approvals Certificates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    |
| <b>Environmental Product Declaration</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    |
| • 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                                          |
| • global warming potential [CO2 eq] / total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 74.698 kg                                          |
| <b>Environment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>General Product Approval</b>                    |
| <a href="#">Environmental Confirmations</a>       |                                                    |
| <b>General Product Approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>For use in hazardous locations</b>              |
|                                                   |                                                    |
| <b>Test Certificates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Maritime application</b>                        |
| <a href="#">Special Test Certificate</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Type Test Certificates/Test Report</a> |
|                                                                                                                                                                                                                         |                                                    |
| <b>Maritime application</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>other</b>                                       |



[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)



## Railway

[Special Test Certificate](#)

[Confirmation](#)

## 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=3RV2011-0HA10-Z W96>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0HA10-Z W96>

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

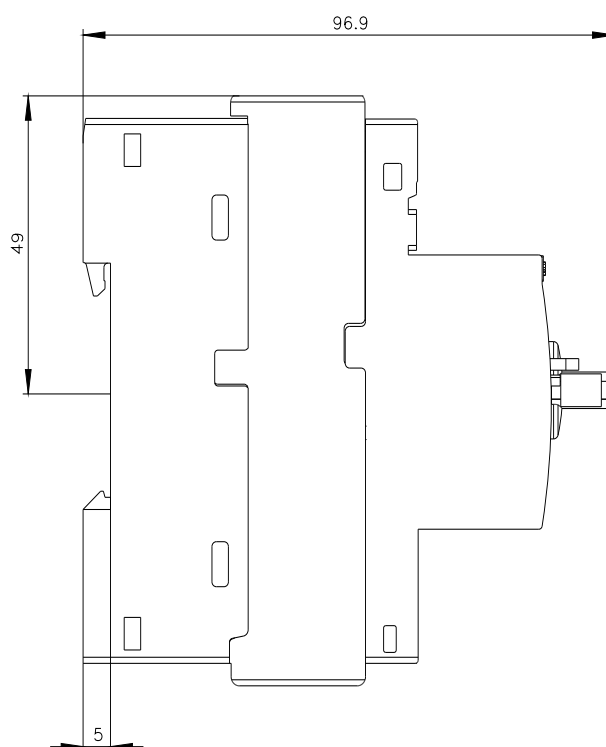
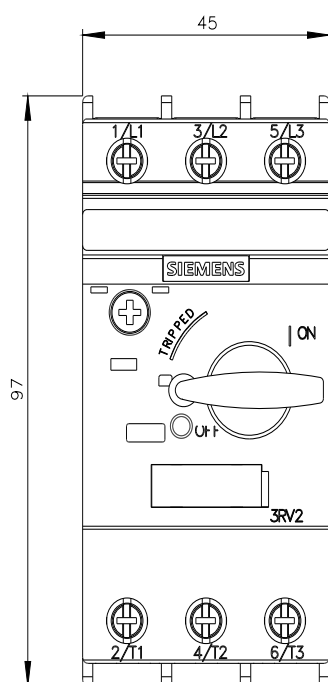
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV2011-0HA10-Z W96&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0HA10-Z W96&lang=en)

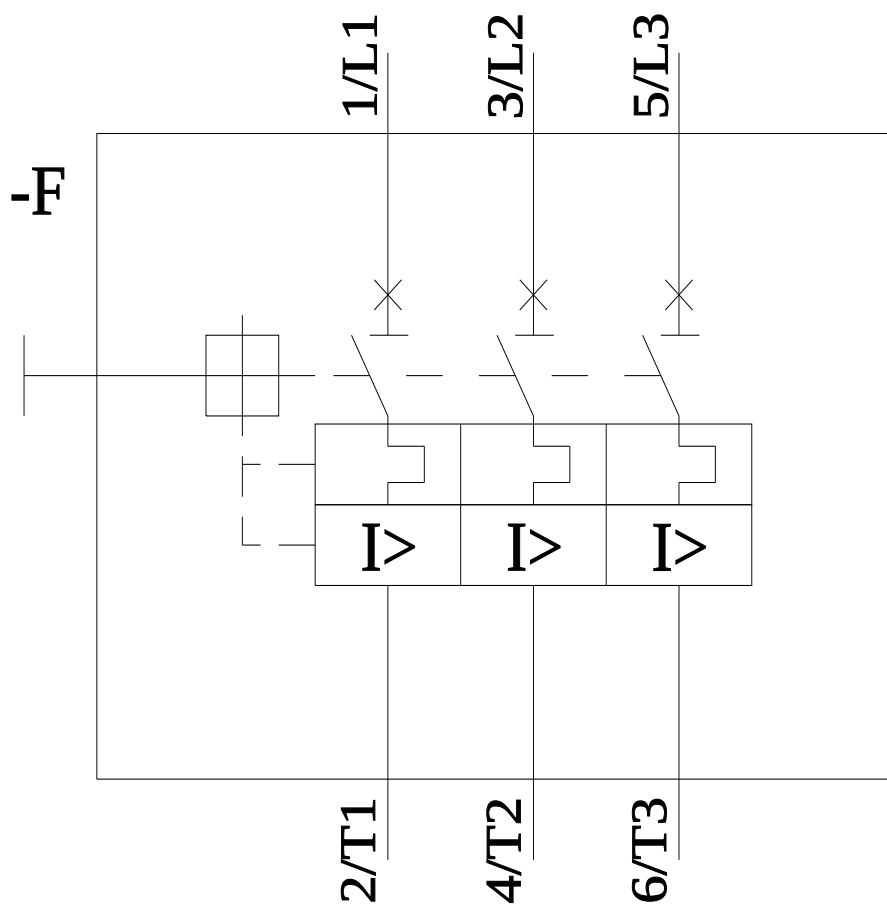
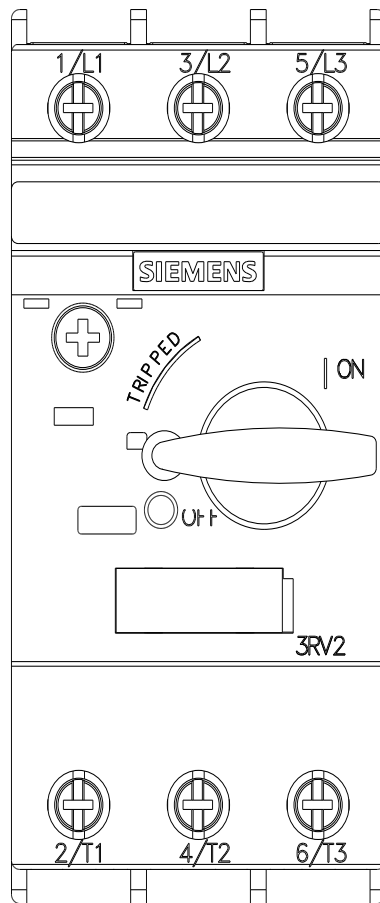
### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0HA10-Z W96>

### 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>)





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