

Circuit breaker size S00 for motor protection, Class 10 A-release 0.55...0.8 A  
Short-circuit release 10 A spring-type 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>                                                                  |                        |
| 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                                                                                     | 0.306 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>Auxiliary circuit</b>                                                                       |                        |
| design of the auxiliary switch                                                                 | transverse             |
| number of NC contacts for auxiliary contacts                                                   | 1                      |
| number of NO contacts for auxiliary contacts                                                   | 1                      |
| number of CO contacts for auxiliary contacts                                                   | 0                      |
| <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 |
| <b>operating short-circuit current breaking capacity (Ics) at AC</b> |        |
| • 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   |

#### UL/CSA ratings

|                             |                      |
|-----------------------------|----------------------|
| <b>UL File Number (CCN)</b> | E47705 (NLRV, NLRV7) |
|-----------------------------|----------------------|

#### Installation/ mounting/ dimensions

|                                                                                                                                                 |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| <b>Mounting method of circuit breaker for Transformer protection, Generator protection and system protection optional standard bar mounting</b> | Yes |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----|

#### Connections/ Terminals

|                                      |                         |
|--------------------------------------|-------------------------|
| <b>type of electrical connection</b> |                         |
| • for auxiliary and control circuit  | spring-loaded terminals |
| <b>design of screwdriver shaft</b>   | Diameter 3 mm           |

#### 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 |
|----------------------------------------------------|--------|

#### 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 |

#### Approvals Certificates

|                                                            |           |
|------------------------------------------------------------|-----------|
| <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 |

#### Environment General Product Approval

[Environmental Confirmations](#)



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



#### Test Certificates Maritime application

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



#### Maritime application

other



[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)



#### Railway

[Confirmation](#)

[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=3RV2011-0HA25-Z X95>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0HA25-Z X95>

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

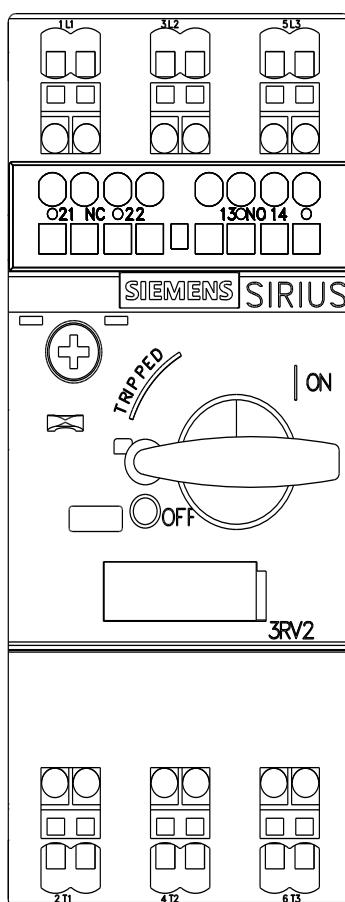
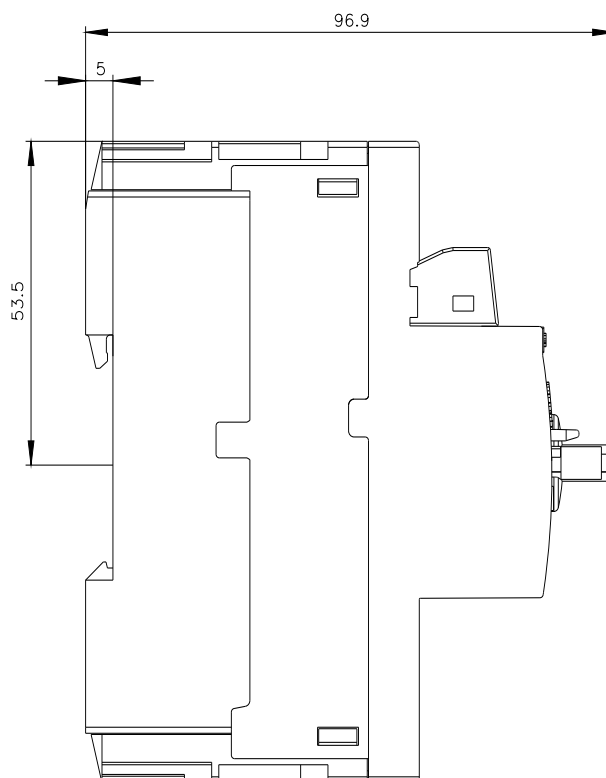
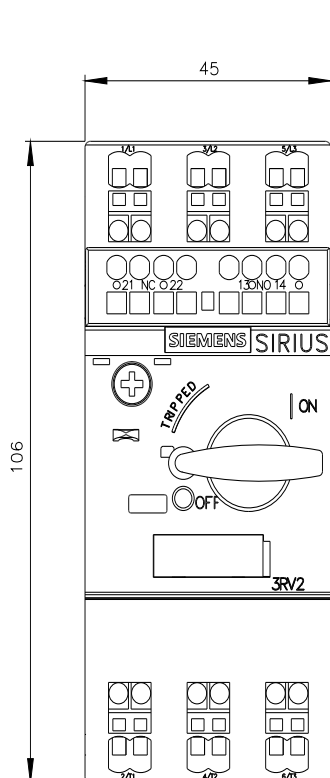
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV2011-0HA25-Z X95&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0HA25-Z X95&lang=en)

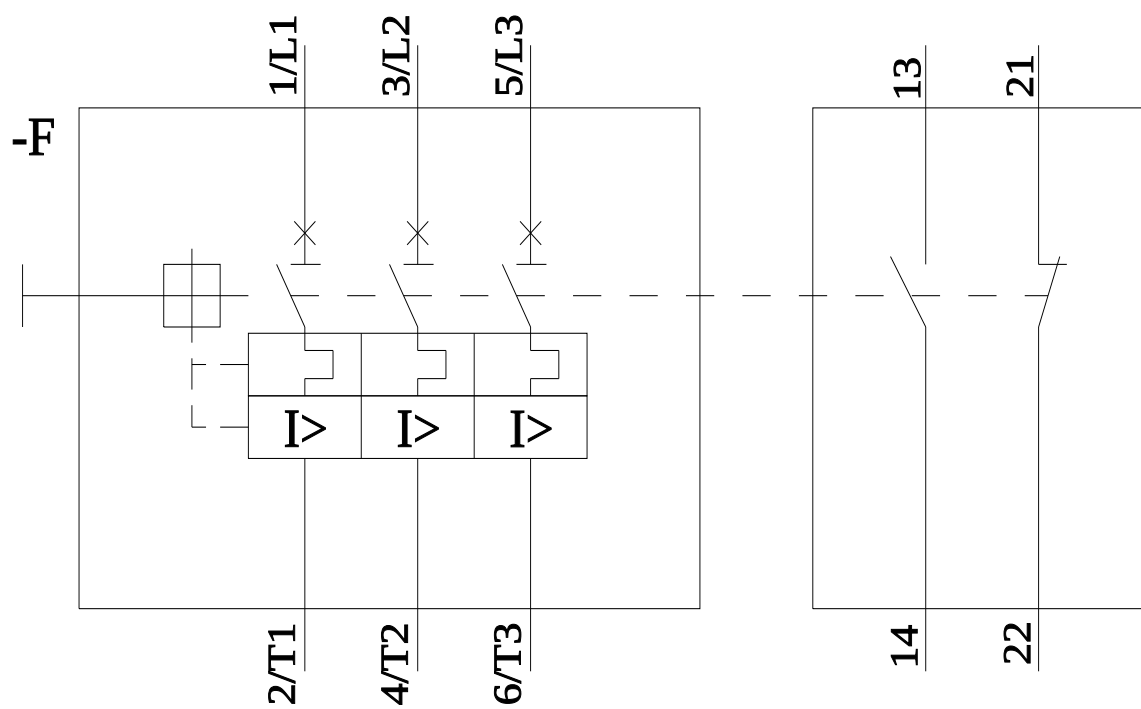
Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0HA25-Z X95>

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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