



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 3.2 A N release 65 A screw terminal Standard switching capacity

| | |
|---|---|
| product brand name | SIRIUS |
| product designation | Circuit breaker |
| design of the product | For transformer protection according to UL 489/CSA C22.2 No.5 |
| product type designation | 3RV2 |
| General technical data | |
| size of the circuit-breaker | S00 |
| product extension auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| • at AC in hot operating state | 7.25 W |
| • at AC in hot operating state per pole | 2.4 W |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| surge voltage resistance rated value | 6 kV |
| shock resistance according to IEC 60068-2-27 | 25 g / 11 ms (rectangular impulse and sine pulse) |
| mechanical service life (operating cycles) | |
| • of the main contacts typical | 100 000 |
| • of auxiliary contacts typical | 100 000 |
| electrical endurance (operating cycles) typical | 100 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 10/01/2009 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| • during operation | -20 ... +60 °C |
| • during storage | -50 ... +80 °C |
| • during transport | -50 ... +80 °C |
| relative humidity during operation | 10 ... 95 % |
| Main circuit | |
| number of poles for main current circuit | 3 |
| operating voltage | |
| • rated value | 20 ... 690 V |
| • at AC-3 rated value maximum | 690 V |
| • at AC-3e rated value maximum | 690 V |
| operating frequency rated value | 50 ... 60 Hz |
| operational current rated value | 3.2 A |
| operational current | |
| • at AC-3 at 400 V rated value | 3.2 A |
| • at AC-3e at 400 V rated value | 3.2 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 0.6 kW |

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| — at 400 V rated value | 1.1 kW |
| — at 500 V rated value | 1.5 kW |
| — at 690 V rated value | 2.2 kW |
| ● at AC-3e | |
| — at 230 V rated value | 0.6 kW |
| — at 400 V rated value | 1.1 kW |
| — at 500 V rated value | 1.5 kW |
| — at 690 V rated value | 2.2 kW |
| operating frequency | |
| ● at AC-3 maximum | 15 1/h |
| ● at AC-3e maximum | 15 1/h |
| Protective and monitoring functions | |
| product function | |
| ● ground fault detection | No |
| ● phase failure detection | No |
| design of the overload release | thermal |
| 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 | 10 kA |
| ● at 480 AC Y/277 V according to UL 489 rated value | 65 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 | 10 kA |
| response value current of instantaneous short-circuit trip unit | 65 A |
| Short-circuit protection | |
| 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 | |
| ● at 400 V | gG 32 A |
| ● at 500 V | gG 32 A |
| ● at 690 V | gG 25 A |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height | 144 mm |
| width | 45 mm |
| depth | 97 mm |
| required spacing | |
| ● for grounded parts at 400 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 30 mm |
| ● for live parts at 400 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 30 mm |
| ● for grounded parts at 500 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 30 mm |
| ● for live parts at 500 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 30 mm |
| ● for grounded parts at 690 V | |
| — downwards | 70 mm |

| | |
|---------------------------|-------|
| — upwards | 70 mm |
| — backwards | 0 mm |
| — at the side | 30 mm |
| — forwards | 0 mm |
| • for live parts at 690 V | |
| — downwards | 70 mm |
| — upwards | 70 mm |
| — backwards | 0 mm |
| — at the side | 30 mm |
| — forwards | 0 mm |

Connections/ Terminals

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| type of electrical connection | |
| • for main current circuit | screw-type terminals |
| arrangement of electrical connectors for main current circuit | Top and bottom |
| type of connectable conductor cross-sections | |
| • for main contacts | |
| — solid or stranded | 1 ... 10 mm ² , max. 2x 10 mm ² |
| — finely stranded with core end processing | 1 ... 16 mm ² , max. 6 + 16 mm ² |
| • for AWG cables for main contacts | 2x (14 ... 10) |
| tightening torque | |
| • for main contacts with screw-type terminals | 2.5 ... 3 N·m |
| design of screwdriver shaft | Diameter 5 to 6 mm |
| size of the screwdriver tip | Pozidriv size 2 |
| design of the thread of the connection screw | |
| • for main contacts | M4 |

Safety related data

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| B10 value | |
| • with high demand rate according to SN 31920 | 5 000 |
| proportion of dangerous failures | |
| • with low demand rate according to SN 31920 | 50 % |
| • with high demand rate according to SN 31920 | 50 % |
| failure rate [FIT] | |
| • with low demand rate according to SN 31920 | 50 FIT |
| T1 value for proof test interval or service life according to IEC 61508 | 10 a |
| 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 version for switching status | Handle |

Certificates/ approvals

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|---------------------------------|--|
| General Product Approval | Declaration of Con- formity |
|---------------------------------|--|

[Confirmation](#)



[KC](#)



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| Declaration of Con- formity | Test Certificates | Marine / Shipping | other |
|--|--------------------------|--------------------------|--------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



[Confirmation](#)

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| other | Railway |
|--------------|----------------|



Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3RV2811-1DD10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-1DD10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1DD10>

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

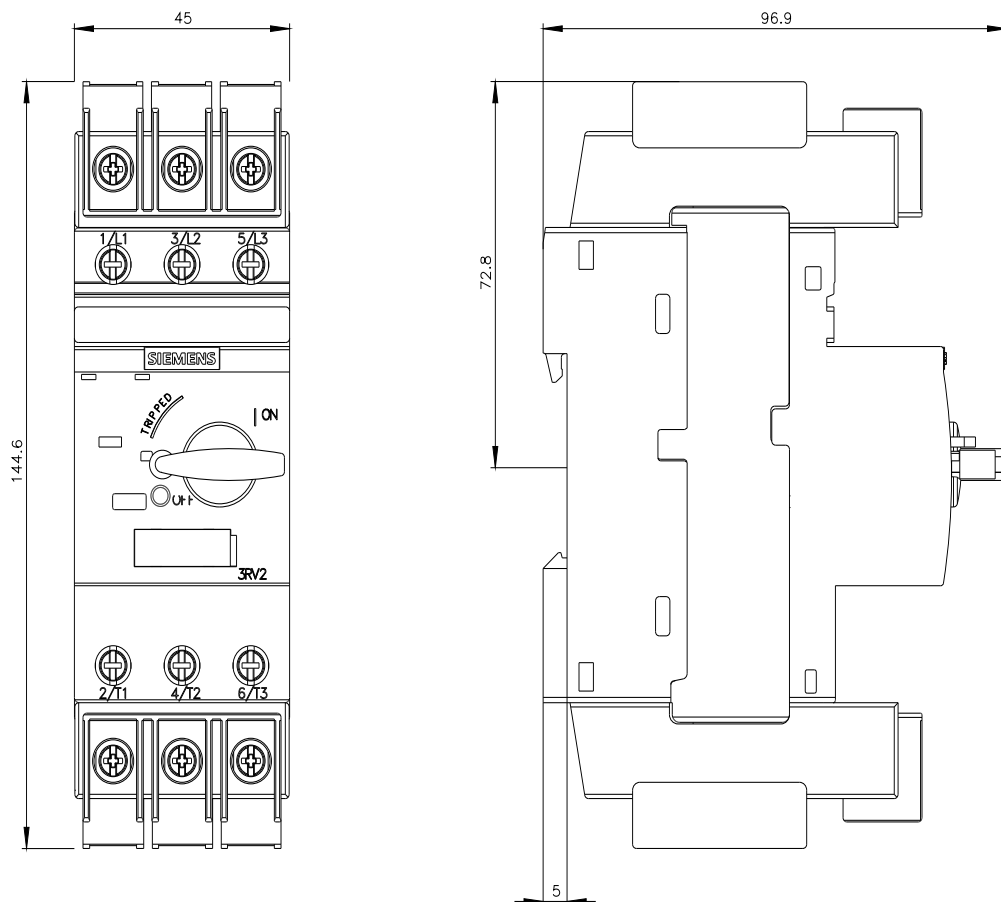
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2811-1DD10&lang=en

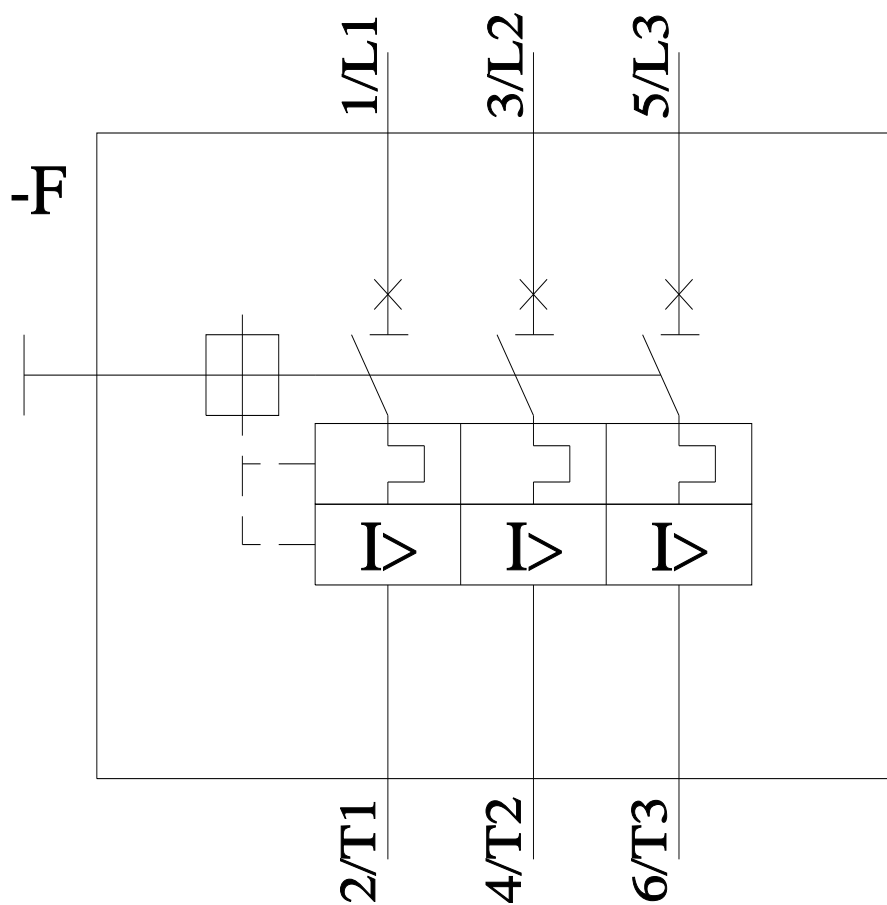
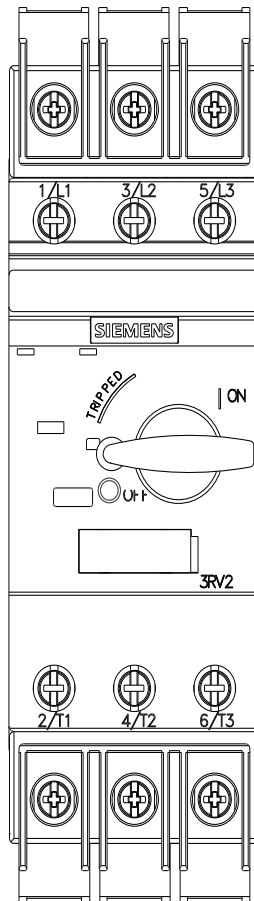
Characteristic: Tripping characteristics, I^2t , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-1DD10/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-1DD10&objecttype=14&gridview=view1>





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5/1/2023

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