SIEMENS

Data sheet 3RV2811-0JD10

Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 1 A N-release 21 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 |

| 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 | 5.5 W |
| • at AC in hot operating state per pole | 1.8 W |
| Insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| Surge voltage resistance rated value | 6 kV |
| maximum permissible voltage for safe isolation | |
| in networks with grounded 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 | IP20 |
|---|-----------------|
| Protection class IP of the terminal | IP00 |
| Shock resistance | |
| • acc. to IEC 60068-2-27 | 25g / 11 ms |
| Mechanical service life (switching cycles) | |
| of the main contacts typical | 100 000 |
| of auxiliary contacts typical | 100 000 |
| Electrical endurance (switching cycles) | |
| • typical | 100 000 |
| Reference code acc. to DIN EN 81346-2 | Q |
| 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 |
| Temperature compensation | -20 +60 °C |
| Relative humidity during operation | 10 95 % |
| Main circuit | |
| Number of poles for main current circuit | 3 |
| Operating voltage | 999.14 |
| • rated value | 690 V |
| at AC-3 rated value maximum | 690 V |
| Operating frequency rated value | 50 60 Hz |
| Operating current rated value | 1 A |
| Operating current | |
| • at AC-3 | 1 A |
| — at 400 V rated value | TA . |
| Operating power • at AC-3 | |
| | 180 W |
| — at 230 V rated value | 250 W |
| — at 400 V rated value | 370 W |
| — at 500 V rated value | 370 W |
| | EEO W |
| — at 690 V rated value | 550 W |
| — at 690 V rated value Operating frequency | |
| — at 690 V rated value | 550 W 15 1/h |
| — at 690 V rated value Operating frequency • at AC-3 maximum Auxiliary circuit | 15 1/h |
| — at 690 V rated value Operating frequency ■ at AC-3 maximum Auxiliary circuit Number of NC contacts for auxiliary contacts | 15 1/h 0 |
| — at 690 V rated value Operating frequency • at AC-3 maximum Auxiliary circuit | 15 1/h |

0

| Protective and monitoring functions | |
|---|----------|
| Product function | |
| Ground fault detection | No |
| Phase failure detection | No |
| Design of the overload release | thermal |
| Operational 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 |
| 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 |
| • at 480 AC Y/277 V acc. to UL 489 rated value | 65 000 A |
| Response value current | |
| of instantaneous short-circuit trip unit | 21 A |

| Short-circuit protection | |
|--------------------------|--|
| Yes | |
| magnetic | |
| | |
| | |
| gL/gG 10 A | |
| gL/gG 10 A | |
| | |

| mounting position | any |
|---|--|
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting 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 |
| — Backwards | 0 mm |
| — at the side | 30 mm |
| — forwards | 0 mm |

| • for live parts at 400 V | |
|-------------------------------|-------|
| — downwards | 30 mm |
| — upwards | 30 mm |
| — Backwards | 0 mm |
| — at the side | 30 mm |
| — forwards | 0 mm |
| • for grounded parts at 500 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — Backwards | 0 mm |
| — at the side | 30 mm |
| — forwards | 0 mm |
| • for live parts at 500 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — Backwards | 0 mm |
| — at the side | 30 mm |
| — forwards | 0 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 |

| Connections/ Terminals | |
|--|---------------------------|
| Product function | |
| removable terminal for auxiliary and control circuit | No |
| 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 | |
| single or multi-stranded | 1 10 mm², max. 2x 10 mm² |
| — finely stranded with core end processing | 1 16 mm², max. 6 + 16 mm² |

| at AWG conductors 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 2 |
| Design of the thread of the connection screw | |
| • for main contacts | M4 |

| Safety related data | |
|--|--------|
| B10 value | |
| with high demand rate acc. to SN 31920 | 5 000 |
| Proportion of dangerous failures | |
| with low demand rate acc. to SN 31920 | 50 % |
| with high demand rate acc. to SN 31920 | 50 % |
| Failure rate [FIT] | |
| • with low demand rate acc. to SN 31920 | 50 FIT |
| T1 value for proof test interval or service life acc. to IEC 61508 | 10 y |
| Display version | |
| for switching status | Handle |

Certificates/ approvals

General Product Approval











Miscellaneous

Test Certificates

Marine / Shipping

other

Type Test Certificates/Test Report

Special Test Certificate







Confirmation

other

Railway



Vibration and Shock

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=3RV2811-0JD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-0JD10

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

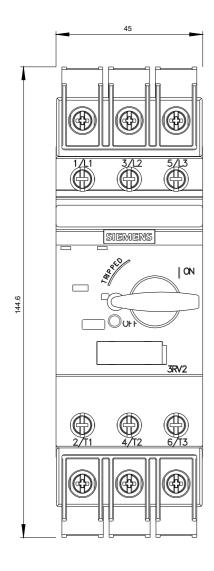
https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0JD10

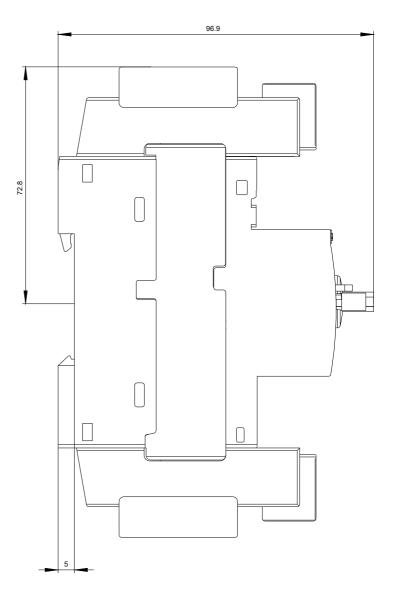
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2811-0JD10&lang=en

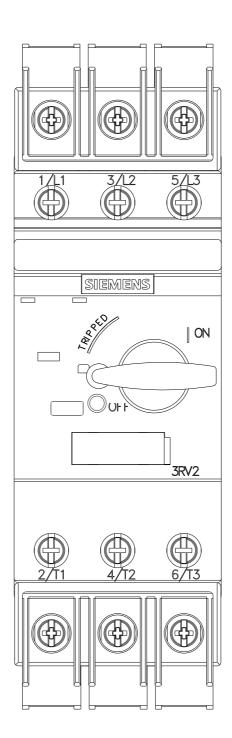
Characteristic: Tripping characteristics, I2t, Let-through current

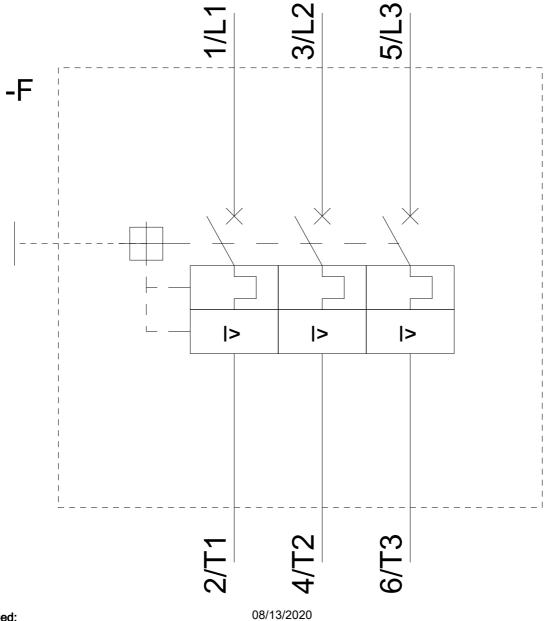
https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0JD10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-0JD10&objecttype=14&gridview=view1









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