



Circuit breaker size S00 for transformer protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 0.8 A N-release 16 A screw terminal Standard switching capacity

|                                 |                                                               |
|---------------------------------|---------------------------------------------------------------|
| <b>product brand name</b>       | SIRIUS                                                        |
| <b>product designation</b>      | Circuit breaker                                               |
| <b>design of the product</b>    | For transformer protection according to UL 489/CSA C22.2 No.5 |
| <b>product type designation</b> | 3RV2                                                          |

### General technical data

|                                                                 |            |
|-----------------------------------------------------------------|------------|
| <b>size of the circuit-breaker</b>                              | S00        |
| product extension auxiliary switch                              | Yes        |
| <b>power loss [W] for rated value of the current</b>            |            |
| • 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      |
| <b>surge voltage resistance rated value</b>                     | 6 kV       |
| <b>mechanical service life (operating cycles)</b>               |            |
| • of the main contacts typical                                  | 100 000    |
| • of auxiliary contacts typical                                 | 100 000    |
| electrical endurance (operating cycles) typical                 | 100 000    |
| <b>reference code according to IEC 81346-2</b>                  | Q          |
| <b>Substance Prohibition (Date)</b>                             | 10/01/2009 |

### Ambient conditions

|                                                         |                |
|---------------------------------------------------------|----------------|
| installation altitude at height above sea level maximum | 2 000 m        |
| <b>ambient temperature</b>                              |                |
| • during operation                                      | -20 ... +60 °C |
| • during storage                                        | -50 ... +80 °C |
| • during transport                                      | -50 ... +80 °C |
| relative humidity during operation                      | 10 ... 95 %    |

### Main circuit

|                                                 |              |
|-------------------------------------------------|--------------|
| <b>number of poles for main current circuit</b> | 3            |
| <b>operating voltage</b>                        |              |
| • rated value                                   | 20 ... 690 V |
| • at AC-3 rated value maximum                   | 690 V        |
| • at AC-3e rated value maximum                  | 690 V        |
| <b>operating frequency rated value</b>          | 50 ... 60 Hz |
| <b>operational current rated value</b>          | 0.8 A        |
| <b>operational current</b>                      |              |
| • at AC-3 at 400 V rated value                  | 0.8 A        |
| • at AC-3e at 400 V rated value                 | 0.8 A        |
| <b>operating power</b>                          |              |
| • at AC-3                                       |              |
| — at 230 V rated value                          | 0.1 kW       |
| — at 400 V rated value                          | 0.2 kW       |
| — at 500 V rated value                          | 0.3 kW       |



- backwards
- at the side
- forwards

0 mm  
30 mm  
0 mm

## Connections/ Terminals

### 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
  - finely stranded with core end processing
- at AWG cables for main contacts

1 ... 10 mm<sup>2</sup>, max. 2x 10 mm<sup>2</sup>  
1 ... 16 mm<sup>2</sup>, max. 6 + 16 mm<sup>2</sup>  
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

### B10 value

- with high demand rate according to SN 31920

5 000

### proportion of dangerous failures

- with low demand rate according to SN 31920
- with high demand rate according to SN 31920

50 %  
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  
display version for switching status

finger-safe, for vertical contact from the front  
Handle

## Certificates/ approvals

### General Product Approval

### Declaration of Conformity

[Confirmation](#)



[KC](#)



### Declaration of Conformity

### Test Certificates

### Marine / Shipping



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



### other

### Railway

[Confirmation](#)



[Vibration and Shock](#)

## Further information

### 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=3RV2811-0HD10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2811-0HD10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0HD10>

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

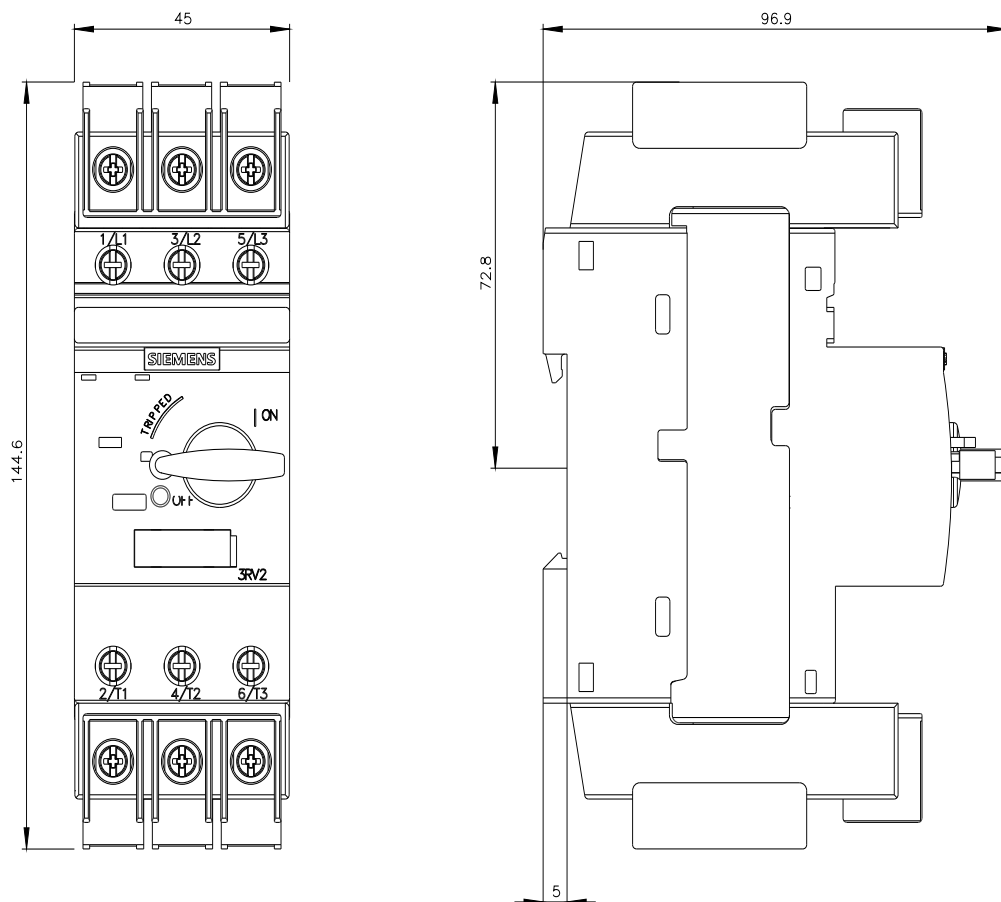
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV2811-0HD10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2811-0HD10&lang=en)

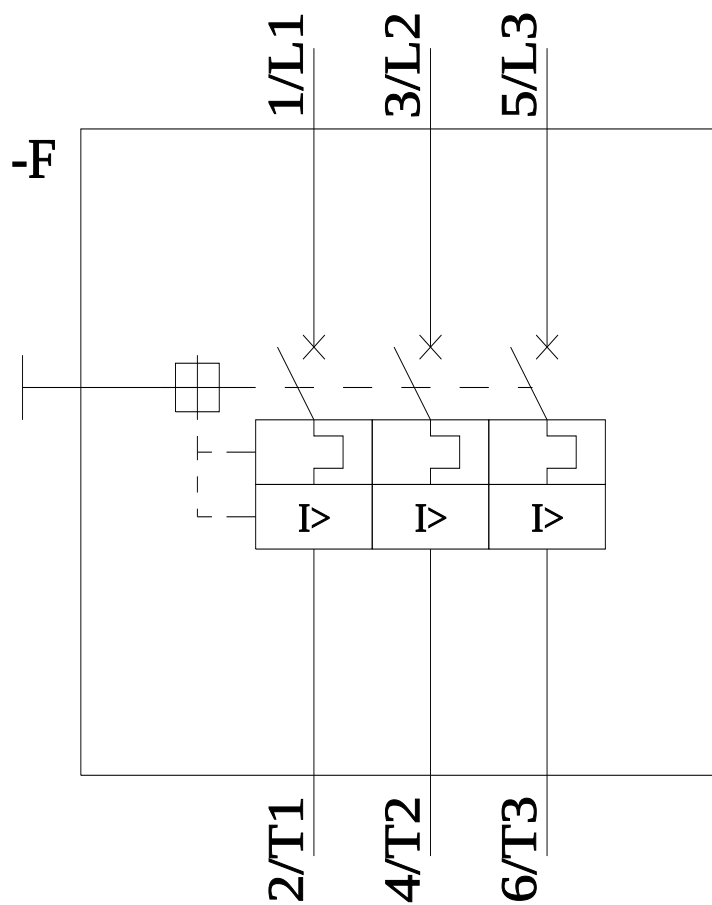
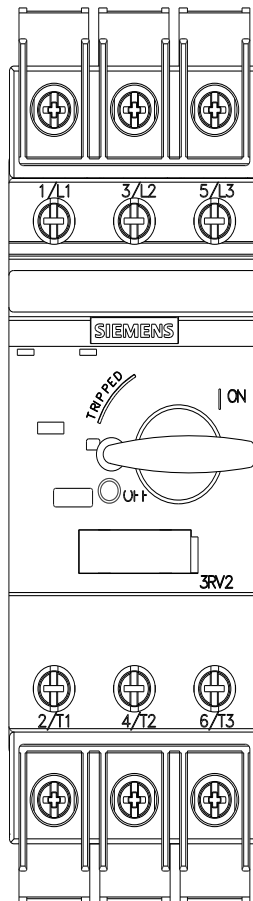
Characteristic: Tripping characteristics,  $I^2t$ , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2811-0HD10/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2811-0HD10&objecttype=14&gridview=view1>





last modified:

3/1/2023