

Residual current operated circuit breaker, 4-pole, type F, short-time delayed, In: 80 A, 300 mA, Un AC: 400 V



| Model                                                |                              |
|------------------------------------------------------|------------------------------|
| Product brand name                                   | SENTRON                      |
| Product designation                                  | RCCB                         |
| Design of the product                                | Short-time delayed           |
| General technical data                               |                              |
| Number of poles                                      | 4                            |
| Size of installation devices / acc. to DIN 43880     | 1                            |
| Protection against electrical shock                  | Finger and back-of-hand safe |
| Short-circuit current rating                         | 10 kA                        |
| circuit-breaker / Design                             | 5SV3                         |
| Mechanical service life (switching cycles) / typical | 10 000                       |
| Switching function / short-term delayed              | Yes                          |
| Overvoltage category                                 | III                          |
| Supply voltage                                       |                              |
| Supply voltage                                       |                              |
| • at AC / rated value                                | 230/400 V                    |
| • for testing equipment / minimum                    | 100 V                        |
| Supply voltage frequency                             |                              |

- rated value

50 Hz

## Protection class

Protection class IP

IP20, if the distribution board is installed, with connected conductors

## Switching capacity

Switching capacity current / according to IEC 61008-1 / rated value

0.8 kA

## Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole

4.1 W

## Electricity

Tripping residual current / rated value

300 mA

Tripping residual / rated value / derated current

|             |         |
|-------------|---------|
| • at 40 Cel | 80 A    |
| • at 45 Cel | 77.57 A |
| • at 50 Cel | 74.59 A |
| • at 55 Cel | 70.22 A |
| • at 60 Cel | 64.47 A |
| • at 65 Cel | 57.35 A |
| • at 70 Cel | 48.84 A |

Type of fault current

F

Current / at AC / rated value

80 A

I<sup>2</sup>t-value / permissible

60 000 A<sup>2</sup>·s

Surge current resistance / rated value

3 kA

Operating frequency

50/60Hz

## Product details

Product feature / silicon-free

Yes

Product extension / can be installed / supplementary devices

Yes

## Number

Number of test cycles / for environmental testing / acc. to IEC 60068-2-30

28

## Connections

Connectable conductor cross-section / stranded

|           |                      |
|-----------|----------------------|
| • minimum | 0.75 mm <sup>2</sup> |
| • maximum | 35 mm <sup>2</sup>   |

Connectable conductor cross-section / solid

|           |                      |
|-----------|----------------------|
| • minimum | 0.75 mm <sup>2</sup> |
| • maximum | 35 mm <sup>2</sup>   |

Tightening torque / with screw-type terminals

|                                 |               |
|---------------------------------|---------------|
| • minimum                       | 2.5 N·m       |
| • maximum                       | 3 N·m         |
| Position / of power supply cord | top or bottom |

### Mechanical Design

|                       |                |
|-----------------------|----------------|
| Height                | 90 mm          |
| Width                 | 72 mm          |
| Depth                 | 70 mm          |
| Mounting position     | any            |
| Installation depth    | 70 mm          |
| Number of width units | 4              |
| Mounting type         | DIN rail (REG) |
| Net weight            | 350 g          |

### Environmental conditions

|                                        |        |
|----------------------------------------|--------|
| Ambient temperature                    |        |
| • minimum                              | -25 °C |
| • maximum                              | 45 °C  |
| • during storage / minimum permissible | -40 °C |
| • during storage / maximum permissible | 75 °C  |

### Certificates

|                          |   |
|--------------------------|---|
| Reference code           |   |
| • acc. to DIN EN 61346-2 | F |
| • acc. to DIN EN 81346-2 | F |

| General Product Approval | Declaration of Conformity | other | Railway |
|--------------------------|---------------------------|-------|---------|
|--------------------------|---------------------------|-------|---------|



[Miscellaneous](#)



EG-Konf.

[Miscellaneous](#)

[Vibration and Shock](#)

[Confirmation](#)

### Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV3647-3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3647-3>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV3647-3](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3647-3)

**CAX-Online-Generator**

<http://www.siemens.com/cax>

**Tender specifications**

<http://www.siemens.com/specifications>







