

RCCB, 4-pole, type A, selective, In: 125 A, 500 mA, Un AC: 400 V



Figure similar

| Model                                                |                              |
|------------------------------------------------------|------------------------------|
| product brandname                                    | SENTRON                      |
| Product designation                                  | RCCB                         |
| Design of the product                                | Selective                    |
| 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                             | 5SM3                         |
| Mechanical service life (switching cycles) / typical | 10 000                       |
| Overvoltage category                                 | III                          |
| Supply voltage                                       |                              |
| Supply voltage                                       |                              |
| • at AC / rated value                                | 400 V                        |
| • for testing equipment / minimum                    | 100 V                        |

|                                                                                   |                                                                         |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Protection class</b>                                                           |                                                                         |
| <b>Protection class IP</b>                                                        | IP20, if the distribution board is installed, with connected conductors |
| <b>Switching capacity</b>                                                         |                                                                         |
| <b>Switching capacity current</b>                                                 |                                                                         |
| • acc. to EN 60898 / rated value                                                  | 1.25 kA                                                                 |
| <b>Dissipation</b>                                                                |                                                                         |
| <b>Power loss [W]</b>                                                             |                                                                         |
| • for rated value of the current / at AC / in hot operating state / per pole      | 8.9 W                                                                   |
| • maximum                                                                         | 26.7 W                                                                  |
| <b>Electricity</b>                                                                |                                                                         |
| <b>Tripping residual current / rated value</b>                                    | 500 mA                                                                  |
| rated current $I_n$ / IEC, DIN/VDE / at 40 °C                                     | 125 A                                                                   |
| <b>Type of fault current</b>                                                      | A                                                                       |
| Current / at AC / rated value                                                     | 125 A                                                                   |
| <b><math>I^2t</math>-value / permissible</b>                                      | 94 000 A <sup>2</sup> ·s                                                |
| Surge current resistance / rated value                                            | 5 kA                                                                    |
| <b>Operating frequency</b>                                                        | 50 Hz                                                                   |
| <b>Product details</b>                                                            |                                                                         |
| Product feature / silicon-free                                                    | Yes                                                                     |
| Product extension / can be installed / supplementary devices                      | Yes                                                                     |
| <b>Number</b>                                                                     |                                                                         |
| <b>Number of test cycles / for environmental testing / acc. to IEC 60068-2-30</b> | 28                                                                      |
| <b>Connections</b>                                                                |                                                                         |
| <b>Connectable conductor cross-section / stranded</b>                             |                                                                         |
| • minimum                                                                         | 2.5 mm <sup>2</sup>                                                     |
| • maximum                                                                         | 50 mm <sup>2</sup>                                                      |
| <b>Connectable conductor cross-section / solid</b>                                |                                                                         |
| • minimum                                                                         | 2.5 mm <sup>2</sup>                                                     |
| • maximum                                                                         | 50 mm <sup>2</sup>                                                      |
| <b>Tightening torque / with screw-type terminals</b>                              |                                                                         |
| • minimum                                                                         | 3 N·m                                                                   |
| • maximum                                                                         | 3.5 N·m                                                                 |
| Position / of power supply cord                                                   | top or bottom                                                           |
| <b>Mechanical Design</b>                                                          |                                                                         |
| <b>Height</b>                                                                     | 90 mm                                                                   |
| <b>Width</b>                                                                      | 72 mm                                                                   |

|                       |                |
|-----------------------|----------------|
| Depth                 | 77 mm          |
| Mounting position     | any            |
| Installation depth    | 70 mm          |
| Number of width units | 4              |
| Mounting type         | DIN rail (REG) |
| Net weight            | 517 g          |

#### Environmental conditions

##### Ambient temperature

- minimum -25 °C
- maximum 45 °C
- during storage / minimum permissible -40 °C
- during storage / maximum permissible 75 °C

#### Certificates

##### Equipment marking

- acc. to DIN EN 61346-2 F
- acc. to DIN EN 81346-2 F

|                          |                           |                   |
|--------------------------|---------------------------|-------------------|
| General Product Approval | Declaration of Conformity | Test Certificates |
|--------------------------|---------------------------|-------------------|



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#### Further information

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

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

##### Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SM3745-8>

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

<http://support.automation.siemens.com/WW/view/en/5SM3745-8/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SM3745-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3745-8)

##### CAX-Online-Generator

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

##### Tender specifications

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

