



Residual current operated circuit breaker, 4-pole, type A, In: 125 A, 300 mA, Un AC: 400 V

| Model | |
|--|---|
| product brand name | SENTRON |
| product designation | RCCB |
| design of the product | Instantaneous |
| General technical data | |
| number of poles | 4 |
| size of installation devices / according to DIN 43880 | 1 |
| mechanical service life (switching cycles) / typical | 10 000 |
| short-circuit current rating | 10 kA |
| switching function / short-term delayed | No |
| overvoltage category | III |
| Supply voltage | |
| supply voltage / for testing equipment / minimum | 100 V |
| value range / of the supply voltage frequency | 50 Hz |
| value range / of the operating frequency | 50 Hz |
| value range / of the supply voltage / at AC | 400 V |
| Protection class | |
| protection class IP | IP20, if the distribution board is installed, with connected conductors |
| Switching capacity | |
| switching capacity current | |
| <ul style="list-style-type: none"> according to EN 60898 / rated value | 1.25 kA |
| <ul style="list-style-type: none"> according to IEC 61008-1 / rated value | 1.25 kA |
| Dissipation | |
| power loss [W] | |
| <ul style="list-style-type: none"> for rated value of the current / at AC / in hot operating state / per pole | 8.9 W |
| <ul style="list-style-type: none"> maximum | 26.7 W |
| Current | |
| tripping fault current / rated value | 300 mA |
| operational current | |
| <ul style="list-style-type: none"> at 40 °C / rated value | 125 A |
| <ul style="list-style-type: none"> at 45 °C / rated value | 125 A |
| <ul style="list-style-type: none"> at 50 °C / rated value | 120 A |
| <ul style="list-style-type: none"> at 55 °C / rated value | 115 A |
| <ul style="list-style-type: none"> at 60 °C / rated value | 110 A |
| <ul style="list-style-type: none"> at 65 °C / rated value | 105 A |
| <ul style="list-style-type: none"> at 70 °C / rated value | 100 A |
| <ul style="list-style-type: none"> at AC / rated value | 125 A |
| residual current type | A |

| | | | |
|---|----------------------------------|--------------------------|--------------|
| let-through current / permissible | 8 000 A | | |
| I2t value / permissible | 94 000 A ² ·s | | |
| surge current resistance / rated value | 1 kA | | |
| Product details | | | |
| product feature / silicon-free | Yes | | |
| product extension / installable / supplementary devices | Yes | | |
| Connections | | | |
| connectable conductor cross-section / solid | | | |
| • minimum | 2.5 mm ² | | |
| • maximum | 50 mm ² | | |
| connectable conductor cross-section / stranded | | | |
| • minimum | 2.5 mm ² | | |
| • maximum | 50 mm ² | | |
| tightening torque / with screw-type terminals | | | |
| • minimum | 3 N·m | | |
| • maximum | 4 N·m | | |
| position / of power supply cord | top or bottom | | |
| Mechanical Design | | | |
| height | 90 mm | | |
| width | 72 mm | | |
| depth | 77 mm | | |
| installation depth | 70 mm | | |
| number of modular width units | 4 | | |
| fastening method | DIN rail (REG) | | |
| mounting position | any | | |
| net weight | 536 g | | |
| Environmental conditions | | | |
| ambient temperature / during operation | | | |
| • minimum | -25 °C | | |
| • maximum | 45 °C | | |
| ambient temperature / during storage | | | |
| • minimum permissible | -40 °C | | |
| • maximum permissible | 75 °C | | |
| number of test cycles / for environmental testing / according to IEC 60068-2-30 | 28 | | |
| General Product Approval | Declaration of Conformity | Test Certificates | other |

[Confirmation](#)

[Miscellaneous](#)



[Miscellaneous](#)

[Miscellaneous](#)

Dangerous Good

[Transport Information](#)

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=5SM3645-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3645-6>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3645-6

CAX-Online-Generator



