

Residual current operated circuit breaker, 4-pole, type B, selective,
In: 63 A, 500 mA, Un AC: 400 V



| Model | |
|--|------------------------------|
| Product brand name | 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 |
| Switching function / short-term delayed | No |
| Overvoltage category | III |
| Supply voltage | |
| Current / at AC / rated value | 63 A |
| <ul style="list-style-type: none"> • Supply voltage / at AC / rated value • Supply voltage / for testing equipment / minimum | 400 V 195 V |

- 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 | 2.6 W |
|---|-------|

Current

| | |
|---|--------|
| Tripping residual current / rated value | 500 mA |
|---|--------|

Tripping residual / rated value / derated current

| | |
|-------------|---------|
| • at 40 Cel | 63 A |
| • at 45 Cel | 63 A |
| • at 50 Cel | 60.48 A |
| • at 55 Cel | 57.96 A |
| • at 60 Cel | 55.44 A |
| • at 65 Cel | 52.92 A |
| • at 70 Cel | 50.4 A |

| | |
|-----------------------|---|
| Type of fault current | B |
|-----------------------|---|

| | |
|--------------------------------------|--------------------------|
| I ² t-value / permissible | 70 000 A ² ·s |
|--------------------------------------|--------------------------|

| | |
|--|------|
| Surge current resistance / rated value | 5 kA |
|--|------|

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|---------------------|---------|
| Operating frequency | 50/60Hz |
|---------------------|---------|

Product details

| | |
|--------------------------------|-----|
| Product feature / silicon-free | Yes |
|--------------------------------|-----|

| | |
|--|-----|
| Product extension / can be installed / supplementary devices | Yes |
|--|-----|

Connections

Connectable conductor cross-section

| | |
|------------|----------------------------|
| • solid | 1.5 ... 25 mm ² |
| • stranded | 1.5 ... 25 mm ² |

| | |
|---|---------------|
| Tightening torque / with screw-type terminals | 2.5 ... 3 N·m |
|---|---------------|

| | |
|---------------------------------|---|
| Position / of power supply cord | Top or bottom (bottom for SIGRES function also in switched-off state) |
|---------------------------------|---|

Mechanical Design

| | |
|--------|-------|
| Height | 90 mm |
|--------|-------|

| | |
|-------|-------|
| Width | 72 mm |
|-------|-------|

| | |
|-------|-------|
| Depth | 77 mm |
|-------|-------|

| | |
|--------------------|-------|
| Installation depth | 70 mm |
|--------------------|-------|

| | |
|-----------------------|---|
| Number of width units | 4 |
|-----------------------|---|

| | |
|-------------------|----------------|
| Mounting type | DIN rail (REG) |
| Mounting position | any |
| Net weight | 588 g |

Environmental conditions

| | |
|---------------------|----------------|
| Ambient temperature | -25 ... +45 °C |
| • during storage | -40 ... +75 °C |

Certificates

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

| General Product Approval | Test Certificates | other |
|--------------------------|-------------------|-------|
|--------------------------|-------------------|-------|

[Miscellaneous](#)

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VDE

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?mfb=5SM3746-5>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3746-5>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SM3746-5

CAX-Online-Generator

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

Tender specifications

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



