



Figure similar

Residual current operated circuit breaker, 4-pole, type AC, In: 125 A, 100 mA, Un AC: 400 V

| Model  |   |
|--|---|
| product brand name   | SENTRON   |
| product designation  | RCCB  |
| design of the product  | Instantaneous   |
| product type designation   | 5SM3  |
| General technical data   |   |
| number of poles  | 4   |
| size of installation devices according to DIN 43880                    | 1   |
| mechanical service life (operating cycles) typical                     | 10 000  |
| short-circuit current rating   | 10 kA   |
| switching function short-term delayed                                  | No  |
| overvoltage category   | III   |
| tripping fault current rated value                                     | 100 mA  |
| Supply voltage   |   |
| supply voltage for testing equipment minimum                           | 195 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 |
| Breaking Capacity  |   |
| switching capacity current   |   |
| • according to EN 60898 rated value                                    | 1.25 kA   |
| • according to IEC 61008-1 rated value                                 | 1.25 kA   |
| Dissipation  |   |
| power loss [W]   |   |
| • for rated value of the current at AC in hot operating state per pole | 8.9 W   |
| • maximum  | 26.7 W  |
| Product details  |   |
| product feature silicon-free   | Yes   |
| product extension installable supplementary devices                    | Yes   |
| Connections  |   |
| connectable conductor cross-section solid                              |   |
| • minimum  | 1.5 mm <sup>2</sup>   |
| • maximum  | 50 mm <sup>2</sup>  |
| connectable conductor cross-section stranded                           |   |
| • minimum  | 1.5 mm <sup>2</sup>   |
| • maximum  | 50 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                         | 77 mm          |
| installation depth            | 70 mm          |
| number of modular width units | 4              |
| fastening method              | DIN rail (REG) |
| mounting position             | any            |
| net weight                    | 516 g          |

#### Environmental conditions

|   |           |        |
|---|-----------|--------|
| ambient temperature during operation  | • minimum | -5 °C  |
|   | • maximum | 45 °C  |
| ambient temperature during storage minimum                                  |           | -40 °C |
| number of test cycles for environmental testing according to IEC 60068-2-30 |           | 28     |

#### Approvals Certificates

|                          |       |
|--------------------------|-------|
| General Product Approval | other |
|--------------------------|-------|



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|                 |             |
|-----------------|-------------|
| Dangerous goods | Environment |
|-----------------|-------------|

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#### Further information

Information on the packaging  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>  
 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=5SM3445-0>  
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/5SM3445-0>  
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SM3445-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3445-0)  
 CAx-Online-Generator  
<http://www.siemens.com/cax>  
 Tender specifications  
<http://www.siemens.com/specifications>

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