



residual current operated circuit breaker, 4-pole, type A, In: 40 A, 30 mA, Un AC: 400 V, 4.5 kA

| Model | |
|--|---|
| product brand name | SENTRON |
| product designation | Residual current operated circuit breaker |
| design of the product | Instantaneous |
| product type designation | 5SZ1 |
| General technical data | |
| number of poles | 4 |
| size of installation devices according to DIN 43880 | 1 |
| mechanical service life (operating cycles) typical | 4 000 |
| short-circuit current of series fuse maximum permissible | 80 A |
| short-circuit current rating | 4.5 kA |
| switching function short-term delayed | No |
| degree of pollution | 2 |
| insulation voltage (Ui) rated value | 2 000 V |
| tripping fault current rated value | 30 mA |
| let-through current permissible | 5 200 A |
| I ² t value permissible | 58 000 A ² ·s |
| 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 | 230/400 V |
| Protection class | |
| protection class IP | IP20, if the distribution board is installed, with connected conductors |
| Breaking Capacity | |
| switching capacity current | |
| <ul style="list-style-type: none"> according to IEC 61008-1 rated value | 0.8 kA |
| grid spacing | 60 mm |
| Dissipation | |
| power loss [W] | |
| <ul style="list-style-type: none"> for rated value of the current at AC in hot operating state per pole | 4.2 W |
| <ul style="list-style-type: none"> maximum | 12.6 W |
| Appearance | |
| RAL color number | 7 035 |
| RAL color number (similar) | 7 035 |
| Product details | |
| product feature silicon-free | Yes |
| product extension installable supplementary devices | No |

| Connections | |
|---|--------------------|
| connectable conductor cross-section solid | |
| • minimum | 4 mm ² |
| • maximum | 50 mm ² |
| connectable conductor cross-section stranded | |
| • minimum | 4 mm ² |
| • maximum | 50 mm ² |
| 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 |
| installation depth | 74 mm |
| number of modular width units | 4 |
| fastening method | DIN rail (REG) |
| mounting position | any |
| Net Weight | 306 g |

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

| Approvals Certificates | | |
|------------------------|--------------------------|-------|
| Environment | General Product Approval | other |

[Environmental Confirmations](#)



EG-Konf.



[Confirmation](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SZ1344-6YA>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SZ1344-6YA>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SZ1344-6YA

CAX-Online-Generator

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

Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)

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