



miniature circuit breaker 230 V, 4.5 kA, 1+N-pole/1 MW, C20

Figure similar

| Model | |
|--|--|
| product brand name | SENTRON |
| product designation | Miniature circuit breaker |
| design of the product | Miniature circuit breaker compact |
| General technical data | |
| design of pole | 1P+N |
| tripping characteristic class | C |
| mechanical service life (operating cycles) typical | 10 000 |
| overvoltage category | 3 |
| degree of pollution | 2 |
| Voltage | |
| type of voltage of the operating voltage | AC |
| insulation voltage (U _i) at AC rated value | 250 V |
| <ul style="list-style-type: none"> ● operational current <ul style="list-style-type: none"> — at 30 °C rated value — at 40 °C rated value — at 50 °C rated value — at 55 °C rated value — at 60 °C rated value ● operational current at AC rated value | 20 A 18.79 A 17.51 A 16.82 A 16.11 A 20 A |
| Supply voltage | |
| supply voltage <ul style="list-style-type: none"> ● at AC ● at DC rated value | 230 V 60 V |
| value range of the supply voltage frequency | 50/60 Hz |
| operating voltage <ul style="list-style-type: none"> ● minimum ● with single-phase operation at AC maximum | 24 V 250 V |
| Protection class | |
| protection class IP | IP20, with connected conductors |
| Breaking Capacity | |
| switching capacity current <ul style="list-style-type: none"> ● according to EN 60898 rated value | 4.5 kA |
| energy limitation class | 3 |
| Dissipation | |
| power loss [W] for rated value of the current <ul style="list-style-type: none"> ● at AC in hot operating state per pole | 2.2 W |

| Suitability | |
|--|---|
| suitability for operation | Residential buildings/infrastructure |
| Product details | |
| product feature touch protection | Yes |
| product component | |
| • combined terminal top | No |
| • combined terminal bottom | No |
| • neutral conductor switching | Yes |
| product feature properties for main switches in accordance with EN 60204-1 | No |
| product feature halogen-free | Yes |
| product feature sealable | Yes |
| product feature silicon-free | Yes |
| product extension installable supplementary devices | Yes |
| Product function | |
| product function | |
| • communication function | No |
| • other measurement function | No |
| Connections | |
| connectable conductor cross-section solid | |
| • minimum | 0.75 mm ² |
| • maximum | 16 mm ² |
| connectable conductor cross-section stranded | |
| • minimum | 0.75 mm ² |
| • maximum | 16 mm ² |
| connectable conductor cross-section finely stranded with core end processing | |
| • minimum | 0.75 mm ² |
| • maximum | 10 mm ² |
| tightening torque [lbf-in] with screw-type terminals | |
| • minimum | 10.6 lbf-in |
| • maximum | 22.1 lbf-in |
| tightening torque with screw-type terminals | |
| • minimum | 1.2 N·m |
| • maximum | 2.5 N·m |
| position of power supply cord | Any |
| Mechanical Design | |
| height | 90 mm |
| width | 18 mm |
| depth | 76 mm |
| installation depth | 70 mm |
| number of modular width units | 1 |
| fastening method | DIN rail |
| mounting position | any |
| Net Weight | 110 g |
| Environmental conditions | |
| standard | IEC/EN60898-1, GB/T10963.1 |
| vibration resistance according to IEC 60068-2-6 | Yes |
| ambient temperature during operation | |
| • minimum | -25 °C |
| • maximum | 60 °C |
| ambient temperature during operation | -25...45°C: max. 85%rF. 45...60°C: max. 43%rF |
| ambient temperature during storage | |
| • minimum | -40 °C |
| • maximum | 75 °C |
| number of test cycles for environmental testing according to IEC 60068-2-30 | 6 |
| Approvals Certificates | |
| Environment | General Product Approval |

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firmations](#)

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General Product Approval

Maritime application

other

[Confirmation](#)



[Confirmation](#)



other

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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=5SL3020-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL3020-7>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL3020-7

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=)



