



Miniature circuit breaker 400 V 6kA, 2-pole, C, 50 A

| Model | |
|---|--------------------------------------|
| product brand name | SENTRON |
| product designation | Miniature circuit breaker |
| General technical data | |
| number of poles | 2 |
| tripping characteristic class | C |
| mechanical service life (switching cycles) / typical | 10 000 |
| overvoltage category | III |
| degree of pollution | 2 |
| Voltage | |
| type of voltage / of the operating voltage | AC |
| insulation voltage (U _i) | |
| • with multi-phase operation / at AC / rated value | 440 V |
| Supply voltage | |
| supply voltage / at AC / rated value | 400 V |
| operating voltage | |
| • with multi-phase operation / at AC / maximum | 440 V |
| • at DC / rated value / maximum | 72 V |
| Protection class | |
| protection class IP | IP20, with connected conductors |
| Switching capacity | |
| switching capacity current | |
| • acc. to EN 60898 / rated value | 6 kA |
| • acc. to IEC 60947-2 / rated value | 6 kA |
| energy limitation class | 3 |
| Dissipation | |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 3.8 W |
| Current | |
| operational current | |
| • at 30 °C / rated value | 50 A |
| • at 40 °C / rated value | 46.97 A |
| • at 45 °C / rated value | 45 A |
| • at 55 °C / rated value | 42.01 A |
| • at AC / rated value | 50 A |
| suitability for operation | Residential buildings/infrastructure |
| Product details | |

| | |
|---|-----|
| product component / neutral conductor switching | No |
| product feature / touch protection | Yes |
| product feature | |
| • halogen-free | Yes |
| • sealable | Yes |
| • silicon-free | Yes |
| product extension / installable / supplementary devices | Yes |

Connections

| | |
|--|----------------------|
| connectable conductor cross-section / solid | |
| • minimum | 0.75 mm ² |
| • maximum | 25 mm ² |
| connectable conductor cross-section / stranded | |
| • minimum | 0.75 mm ² |
| • maximum | 25 mm ² |
| connectable conductor cross-section / finely stranded / with core end processing | |
| • minimum | 0.75 mm ² |
| • maximum | 25 mm ² |
| tightening torque / with screw-type terminals | |
| • minimum | 2.5 N·m |
| • maximum | 3 N·m |

Mechanical Design

| | |
|-------------------------------|-------|
| height | 90 mm |
| width | 36 mm |
| depth | 76 mm |
| installation depth | 70 mm |
| number of modular width units | 2 |
| mounting position | any |
| net weight | 310 g |

Environmental conditions

| | |
|--|--------|
| ambient temperature / during operation | |
| • minimum | -25 °C |
| • maximum | 45 °C |
| ambient temperature / during storage | |
| • minimum | -40 °C |
| • maximum | 75 °C |

Certificates

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

| | | |
|---------------------------------|----------------------------------|--------------|
| General Product Approval | Declaration of Conformity | other |
|---------------------------------|----------------------------------|--------------|



[Miscellaneous](#)

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=5SL6250-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6250-7>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6250-7

CAX-Online-Generator

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

