



Main miniature circuit breaker (SHU), 1-pole, E 50A, 230/400 V (block with L1, L2, L3)

| Model | |
|--|---|
| product brand name | SENTRON |
| product designation | Miniature circuit breaker |
| design of the product | Main miniature circuit breaker |
| General technical data | |
| number of poles | 1 |
| design of pole | 1P |
| tripping characteristic class | E |
| mechanical service life (operating cycles) typical | 20 000 |
| overvoltage category | 4 |
| degree of pollution | 3 |
| Voltage | |
| insulation voltage (U _i) rated value | 690 V |
| surge voltage resistance rated value | 6 kV |
| supply voltage with single-phase operation at AC rated value | 230 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 ● operational current at AC rated value | 50 A 47.5 A 45 A 43.75 A 50 A |
| Supply voltage | |
| supply voltage at AC | 230 V |
| operating voltage rated value <ul style="list-style-type: none"> ● minimum ● maximum | 110 V 440 V |
| supply voltage frequency rated value | 50 Hz |
| Protection class | |
| protection class IP | IP40, with connected conductors |
| Breaking Capacity | |
| switching capacity current <ul style="list-style-type: none"> ● rated value ● according to EN 60898 rated value | 25 kA 25 kA |
| Dissipation | |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 8 W |
| suitability for operation | Residential buildings/infrastructure |

| Product details | |
|--|-----|
| product component | |
| <ul style="list-style-type: none"> outgoing feeder via spring-loaded terminal infeed at box terminal | Yes |
| product feature properties for main switches in accordance with EN 60204-1 | Yes |
| product feature sealable | Yes |

| Display and operation | |
|---|-----------------------|
| display version for switch position indicator | OFF = green, ON = red |

| Connections | |
|--|--|
| connectable conductor cross-section of spring-loaded terminal finely stranded with core end processing | |
| <ul style="list-style-type: none"> minimum maximum | 2.5 mm ² 16 mm ² |
| connectable conductor cross-section of the box terminal | |
| <ul style="list-style-type: none"> solid minimum solid maximum stranded minimum stranded maximum | 2.5 mm ² 50 mm ² 2.5 mm ² 50 mm ² |
| position of power supply cord | Stipulated by installation in the lower section of the meter panel |

| Mechanical Design | |
|-------------------------------|--|
| height | 151.3 mm |
| depth | 89.5 mm |
| depth of the enclosure | 76.3 mm |
| number of modular width units | 1.5 |
| fastening method | Busbar |
| fastening method other | on 40-mm busbar system in compliance with DIN 43870 Part 2 |
| Net Weight | 1.31 kg |

| Environmental conditions | |
|--|---|
| shock resistance | 30 g, at least 3 impacts, impact duration 11 ms |
| vibration resistance according to IEC 60068-2-6 | 2 g, 20 frequency cycles 5 to 150 to 15 Hz |
| ambient temperature during operation | |
| <ul style="list-style-type: none"> minimum maximum | -25 °C 55 °C |
| ambient temperature during storage | |
| <ul style="list-style-type: none"> minimum maximum | -40 °C 70 °C |

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

[Environmental Con-
firmations](#)

[Environmental Con-
firmations](#)



other

[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=5SP3750-2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SP3750-2>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP3750-2

CAX-Online-Generator

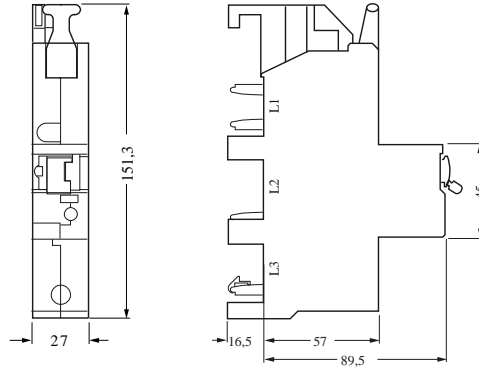
<https://www.siemens.com/cax>

Tender specifications

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

Characteristic curves

https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>



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