

Main miniature circuit breaker (SHU), 1-pole, E 20A, 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 |
| Number of poles / Note | 1P |
| Tripping characteristic class | E |
| circuit-breaker / Design | 5SP3 |
| Mechanical service life (switching cycles) / typical | 20 000 |
| Overvoltage category | IV |
| Voltage | |
| Insulation voltage / rated value | 690 V |
| Surge voltage resistance / rated value | 6 kV |
| Supply voltage | |
| Current / at AC / rated value | 20 A |
| Supply voltage / at AC / rated value | 230 V |
| Operating voltage / rated value | |

| | |
|---|-------|
| <ul style="list-style-type: none"> • minimum | 110 V |
| <ul style="list-style-type: none"> • maximum | 440 V |
| Supply voltage frequency / rated value | 50 Hz |

Protection class

| | |
|---------------------|---------------------------------|
| Protection class IP | IP40, with connected conductors |
|---------------------|---------------------------------|

Switching capacity

| | |
|--|-------|
| Switching capacity current | |
| <ul style="list-style-type: none"> • rated value | 25 kA |
| <ul style="list-style-type: none"> • acc. to EN 60898 / rated value | 25 kA |

Dissipation

| | |
|---|-------|
| Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 6.5 W |
|---|-------|

Current

| | |
|---|--------------------------------------|
| Tripping residual / rated value / derated current / at 40 Cel | 19 A |
| Suitability for operation | Residential buildings/infrastructure |

Product details

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

Display and operation

| | |
|---|-----------------------|
| Display version / for switch position indicator | OFF = green, ON = red |
|---|-----------------------|

Connections

| | |
|--|--|
| <ul style="list-style-type: none"> • Connectable conductor cross-section / of spring-loaded terminal / finely stranded / with core end processing | 2.5 ... 16 mm ² |
| <ul style="list-style-type: none"> • Connectable conductor cross-section / of the box terminal | |
| <ul style="list-style-type: none"> — solid | 2.5 ... 50 mm ² |
| <ul style="list-style-type: none"> — stranded | 2.5 ... 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 width units | 1.5 |

| | |
|---|--|
| Mounting type | Busbar |
| Mounting type / other installation / Note | On 40-mm busbar system in compliance with DIN 43870 Part 2 |
| Net weight | 1 310 g |

Environmental conditions

| | |
|--|---|
| Shock resistance | 30 g, at least 3 impacts, impact duration 11 ms |
| Vibration resistance / acc. to IEC 60068-2-6 | 2 g, 20 frequency cycles 5 to 150 to 15 Hz |
| Ambient temperature | -25 ... +55 °C |
| • during storage | -40 ... +70 °C |

Certificates

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

General Product Approval

Declaration of Conformity



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=5SP3720-2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SP3720-2>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP3720-2

CAX-Online-Generator

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

Tender specifications

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

