

Main miniature circuit breaker (SHU), 1-pole, E 50, 230/400 V



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
Design of the product	Main miniature circuit breaker
Design of the locking device	Integrated locking slide, lockable by means of a lock, wire seal and cable ties
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	50 A

Supply voltage / at AC / rated value	230 V
Operating voltage / rated value	
• minimum	110 V
• maximum	440 V
Supply voltage frequency / rated value	50 Hz

Protection class	
Protection class IP	IP40, with connected conductors

Switching capacity	
Switching capacity current	
• rated value	25 kA
• 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	8 W

Current	
Tripping residual / rated value / derated current / at 40 Cel	47.5 A
Suitability for operation	Residential buildings/infrastructure

Product details	
Product component	
• Infeed at box terminal	Yes
• saddle terminals	Yes
Product feature	
• Properties for main switches in accordance with EN 60204-1	Yes
• 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 the box terminal <ul style="list-style-type: none"> — solid — stranded • Connectable conductor cross-section <ul style="list-style-type: none"> — solid — stranded • Connectable conductor cross-section / finely stranded / with core end processing 	<ul style="list-style-type: none"> 2.5 ... 50 mm² 2.5 ... 50 mm² 2.5 ... 50 mm² 2.5 ... 50 mm² 2.5 ... 50 mm²
Position / of power supply cord	Any

Mechanical Design

Height	128 mm
Depth	76.3 mm
Depth / of the enclosure	76.3 mm
Number of width units	1.5
Mounting type	standard rail
Mounting type / other installation / Note	On standard mounting rail 35 mm acc. to EN 60715
Net weight	350 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=5SP3750-3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SP3750-3>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP3750-3

CAX-Online-Generator

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

Tender specifications

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

