

Main miniature circuit breaker (SHU), selective, 1-pole, 80 A



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	80 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	IP20, with connected conductors
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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	13.5 W
Suitability for operation	Residential buildings/infrastructure

Product details

Product component	
<ul style="list-style-type: none"> • saddle terminals 	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
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Connections

<ul style="list-style-type: none"> • Connectable conductor cross-section <ul style="list-style-type: none"> — solid — stranded • Connectable conductor cross-section / finely stranded / with core end processing 	2.5 ... 50 mm ² 2.5 ... 70 mm ² 2.5 ... 50 mm ²
Position / of power supply cord	Any

Mechanical Design

Height	145 mm
Depth	91 mm
Depth / of the enclosure	92 mm
Number of width units	2
Mounting type	standard rail
Mounting type / other installation / Note	With accessories on 35 mm standard mounting rail or busbar or screw fixing
Net weight	492 g

Environmental conditions

Shock resistance	30 g, at least 3 impacts, impact duration 11 ms
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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

Declaration of Conformity



EG-Konf.

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?mfb=5SP3780>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SP3780>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SP3780

CAX-Online-Generator

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

Tender specifications

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

