

Main miniature circuit breaker (SHU), 3x 1-pole, E 20A, 230/400 V
Mounting on 40 mm busbars



Model

Product brand name	SENTRON
Product designation	Miniature circuit breaker
Design of the product	Main miniature circuit breaker
Design of the locking device	Locking slide with lock, additional wire seal, cable ties and Antilux

General technical data

Number of poles	3
Number of poles / Note	3P
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	400 V

Operating voltage / rated value	
<ul style="list-style-type: none"> • minimum • maximum 	<p>110 V</p> <p>440 V</p>
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 • acc. to EN 60898 / rated value 	<p>25 kA</p> <p>25 kA</p>

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 • Infeed at box terminal 	<p>Yes</p> <p>Yes</p>
Product feature	
<ul style="list-style-type: none"> • Properties for main switches in accordance with EN 60204-1 • sealable 	<p>Yes</p> <p>Yes</p>

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 • Connectable conductor cross-section / of the box terminal <ul style="list-style-type: none"> — solid — stranded 	<p>2.5 ... 16 mm²</p> <p>2.5 ... 50 mm²</p> <p>2.5 ... 50 mm²</p>
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	4.5
Mounting type	Busbar
Mounting type / other installation / Note	On 40-mm busbar system in compliance with DIN 43870 Part 2
Net weight	1 281 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



VDE



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?mlfb=5SP3820-2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SP3820-2>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP3820-2

CAX-Online-Generator

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

Tender specifications

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



