

Miniature circuit breaker 230 V 6kA, 1+N-pole/1 MW, N left C 20 A



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles / Note	1P+N
Tripping characteristic class	C
Mechanical service life (switching cycles) / typical	4 000
Overvoltage category	III
Voltage	
Supply voltage / with single-phase operation / at AC / rated value	230 V
Supply voltage	
Type of voltage	AC
Current / at AC / rated value	20 A
Supply voltage	
• at AC / rated value	230 V
Operating voltage	
• minimum	24 V

- with single-phase operation / at AC / maximum 250 V

Protection class

Protection class IP	IP20, with connected conductors
---------------------	---------------------------------

Switching capacity

Switching capacity current	
• acc. to EN 60898 / rated value	6 kA
Energy limiting class	3

Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.3 W
---	-------

Product details

Product function / neutral conductor switching	Yes
Product feature / Touch protection	Yes
Product component	
• combined terminal top	No
• combined terminal bottom	No
Product feature	
• Properties for main switches in accordance with EN 60204-1	No
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes

Connections

• Connectable conductor cross-section	
— solid	0.75 ... 16 mm ²
— stranded	0.75 ... 16 mm ²
• Connectable conductor cross-section / finely stranded / with core end processing	0.75 ... 10 mm ²
Tightening torque [lbf·in] / with screw-type terminals	17.7 ... 22.1 lbf·in
Tightening torque / with screw-type terminals	2 ... 2.5 N·m
Position / of power supply cord	Any

Mechanical Design

Height	90 mm
Width	18 mm
Depth	76 mm
Installation depth	70 mm
Number of width units	1
Mounting type	standard rail
Mounting position	any
Net weight	122 g

Environmental conditions

Influence of the surrounding temperature	Periodically +55°C, max. 95% humidity
Vibration resistance / acc. to IEC 60068-2-6	Yes
Ambient temperature	-25 ... +45 °C
• during storage	-40 ... +75 °C

Certificates

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

General Product Approval

Declaration of Conformity



CCC



VDE

[Miscellaneous](#)



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=5SY6020-7KL>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY6020-7KL>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6020-7KL

CAX-Online-Generator

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

Tender specifications

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



