

Miniature circuit breaker 230 V 6kA, 1+N-pole/1 MW, 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
Degree of pollution	2
Voltage	
Supply voltage / with single-phase operation / at AC / rated value	230 V
Supply voltage	
Type of voltage	AC
Operating 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
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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
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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
Product extension / can be installed / supplementary devices	Yes

Connections

Connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• maximum	16 mm ²
Connectable conductor cross-section / stranded	
• minimum	0.75 mm ²
• maximum	16 mm ²
Connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm ²
• maximum	10 mm ²
Tightening torque [lbf·in] / with screw-type terminals	
• minimum	17.7 lbf·in
• maximum	22.1 lbf·in
Tightening torque / with screw-type terminals	
• minimum	2 N·m

• maximum	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	84 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	
• minimum	-25 °C
• maximum	45 °C
Ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6

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

General Product Approval			Declaration of Conformity	Test Certificates
				
CCC	IMQ	VDE	EG-Konf.	

[Miscellaneous](#)

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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=5SY6020-7
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SY6020-7
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6020-7
CAX-Online-Generator http://www.siemens.com/cax



