

CIRCUIT BREAKER 230V 4.5KA, 1+N-POLE/1MW C20



Model	
product brand name	SENTRON
Product designation	Miniature circuit breaker
Design of the product	Miniature circuit breaker compact
General technical data	
Number of poles / Note	1P+N
Tripping characteristic class	C
Mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
Degree of pollution	2
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

Supply voltage frequency / rated value	50/60 Hz
Protection class	
Protection class IP	IP20, with connected conductors
Switching capacity	
Switching capacity current	
• acc. to EN 60898 / rated value	4.5 kA
Energy limiting class	3
Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.2 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
• product feature / halogen-free	Yes
• Product feature / sealable	Yes
• product feature / 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	113.2 g

Environmental conditions	
influence of the surrounding temperature	45°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 61346-2	F
• Reference code / acc. to DIN EN 81346-2	F

General Product Approval	Declaration of Conformity	other
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[Miscellaneous](#)

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=5SL3020-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL3020-7>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL3020-7

CAX-Online-Generator

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

Tender specifications

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



