

CIRCUIT BREAKER 230V 6KA, 1+N-POLE/1MW, C 20A



Model	
product brandname	SENTRON
Product designation	Miniature circuit breakers
Design of the product	5SY60 miniature circuit breakers
General technical data	
Number of poles	1
Number of poles / Note	1P+N right
Tripping characteristic class	C
circuit-breaker / Design	5SY60
Mechanical service life (switching cycles) / typical	20 000
Overvoltage category	3
Voltage	
Type of voltage	AC/DC
Insulation voltage / at AC / rated value	250 V
Supply voltage	
Supply voltage / at AC / rated value	230 V
Supply voltage frequency / rated value	50 Hz

Protection class	
Protection class IP	IP20, with connected conductors
Energy limiting class	3
Switching capacity	
Switching capacity current	
• acc. to EN 60898 / rated value	6 kA
• acc. to IEC 60947-2 / rated value	6 kA
Dissipation	
Power loss [W]	
• at N pole / at rated current / at AC / during operation	0.478 W
• for rated value of the current / at AC / in hot operating state / per pole	2.118 W
• maximum	2.1 W
Electricity	
rated current I _n / IEC, DIN/VDE / at 40 Cel	19.2 A
Current / at AC / rated value	20 A
Main circuit	
Operating voltage	
• minimum	24 V
• with single-phase operation / at AC / maximum	250 V
Product details	
Product feature / Touch protection	Yes
Product feature	
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes
Product function	
Product function / neutral conductor switching	Yes
Number	
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6
Connections	
Connectable conductor cross-section / stranded	
• minimum	0.75 mm ²
• maximum	16 mm ²
Connectable conductor cross-section	
• solid	

— minimum	0.75 mm ²
— maximum	16 mm ²
• finely stranded / with core end processing	
— minimum	0.75 mm ²
— maximum	10 mm ²
Tightening torque / with screw-type terminals	
• minimum	2 N·m
• maximum	2.5 N·m
Position / of power supply cord	Any

Mechanical Design

Mounting position	any
Installation depth	70 mm
Number of width units	1
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	50m/s ² at 25 to... 35Hz (4s002)
Ambient temperature	
• minimum	-25 °C
• maximum	45 °C
• during storage / minimum	-40 °C
• during storage / maximum	75 °C

General Product Approval

Declaration of Conformity



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Test Certificates

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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SY6020-7>

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

<http://support.automation.siemens.com/WW/view/en/5SY6020-7/all>

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>

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

