SIEMENS

Data sheet 5SY6020-7

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

Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
Design of the product	5SY60 miniature circuit breakers

General technical data	
Number of poles	2
Number of poles / Note	1P+N
Tripping characteristic class	C
circuit-breaker / Design	5SY60
Mechanical service life (switching cycles) / typical	4 000
Overvoltage category	3

Voltage	
Type of voltage	AC
Insulation voltage	
• at AC / rated value	250 V
• with single-phase operation / at AC / rated value	250 V

Supply voltage	

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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

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	2.3 W

Electricity

Tripping residual / rated value / derated current / at 40 Cel	18.8 A
Current / at AC / rated value	20 A

Main circuit

Operating voltage	
• minimum	24 V
• with single-phase operation / at AC / maximum	250 V
Suitability for operation	Residential buildings/infrastructure

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 mm²
• maximum	16 mm²

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Connectable conductor cross-section	
• solid	
— minimum	0.75 mm²
— maximum	16 mm²
• finely stranded / with core end processing	
— minimum	0.75 mm²
— maximum	10 mm²
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
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	1
Net weight	84 g

Environmental conditions

Degree of pollution	2
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
• during storage / minimum	-40 °C
• during storage / maximum	75 °C

Certificates

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

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

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs

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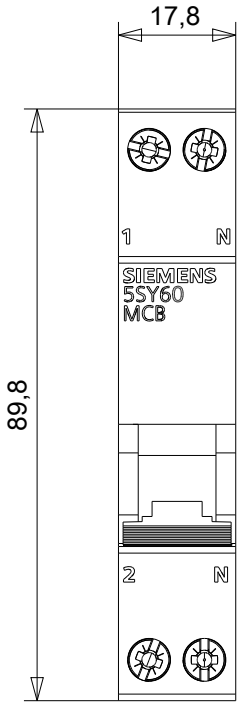
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY6020-7

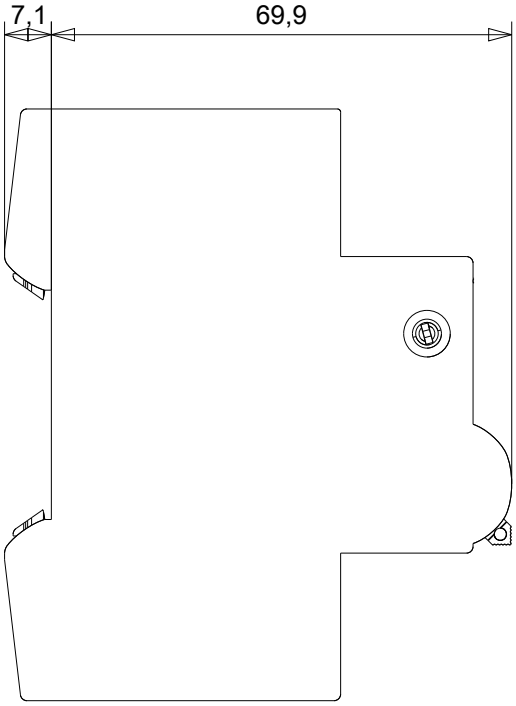
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SY6020-7

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

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





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