

Miniature circuit breaker 230 V 6kA, 1+N-pole/1 MW, C 2A



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	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	2 A
Supply voltage	
• at AC / rated value	230 V

Operating voltage	
<ul style="list-style-type: none"> • minimum • with single-phase operation / at AC / maximum 	24 V 250 V
Supply voltage frequency / rated value	50/60 Hz

Protection class

Protection class IP	IP20, with connected conductors
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Switching capacity

Switching capacity current	
<ul style="list-style-type: none"> • 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	1.2 W
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Product details

Product function / neutral conductor switching	Yes
Product feature / Touch protection	Yes
Product component	
<ul style="list-style-type: none"> • combined terminal top • combined terminal bottom 	No No
<ul style="list-style-type: none"> • Product feature / Properties for main switches in accordance with EN 60204-1 • product feature / halogen-free • Product feature / sealable • product feature / silicon-free 	No Yes Yes Yes
Product extension / can be installed / supplementary devices	Yes

Connections

connectable conductor cross-section / solid	
<ul style="list-style-type: none"> • minimum • maximum 	0.75 mm ² 16 mm ²
Connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> • minimum • maximum 	0.75 mm ² 16 mm ²
connectable conductor cross-section / finely stranded / with core end processing	
<ul style="list-style-type: none"> • minimum • maximum 	0.75 mm ² 10 mm ²
Tightening torque [lbf·in] / with screw-type terminals	
<ul style="list-style-type: none"> • minimum • maximum 	17.7 lbf·in 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	127 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
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General Product Approval	Declaration of Conformity	Test Certificates
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[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=5SY6002-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY6002-7>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6002-7

CAX-Online-Generator

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

Tender specifications

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



