



Miniature circuit breaker 230/400 V 10kA, 1-pole, D, 2A, D=70 mm

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
tripping characteristic class	D
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
insulation voltage	
• with single-phase operation / at AC / rated value	440 V
• with multi-phase operation / at AC / rated value	440 V
supply voltage / with single-phase operation / at AC / rated value	230 V
Supply voltage	
supply voltage	
• at AC / rated value	400 V
operating voltage / at DC / rated value / maximum	72 V
supply voltage frequency / rated value	50/60 Hz
Protection class	
protection class IP	IP20, with connected conductors
Switching capacity	
switching capacity current	
• at DC / acc. to IEC 60947-2 / rated value	15 kA
• acc. to EN 60898 / rated value	10 kA
• acc. to IEC 60947-2 / rated value	35 kA
Dissipation	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.2 W
Current	
operational current	
• at 35 °C / rated value	2 A
• at 40 °C / rated value	1.9 A
• at 45 °C / rated value	1.85 A
• at 50 °C / rated value	1.8 A
• at 55 °C / rated value	1.75 A

• at 60 °C / rated value • at AC / rated value	1.7 A 2 A
suitability for operation	Mechanical engineering / industry
Product details	
product function / neutral conductor switching	No
product feature / touch protection	Yes
product component	
• combined terminal top • combined terminal bottom	Yes Yes
product feature	
• properties for main switches in accordance with EN 60204-1 • halogen-free • sealable • silicon-free	Yes Yes Yes Yes
product extension / installable / supplementary devices	Yes
Short circuit	
breaking capacity short-circuit current (I _{cn})	
• at AC / acc. to UL 1077 and CSA C22.2 No.235	5 kA
Connections	
connectable conductor cross-section / solid	
• minimum • maximum	0.75 mm ² 35 mm ²
connectable conductor cross-section / stranded	
• minimum • maximum	0.75 mm ² 35 mm ²
connectable conductor cross-section / finely stranded / with core end processing	
• minimum • maximum	0.75 mm ² 25 mm ²
AWG number / as coded connectable conductor cross section	
• minimum • maximum	18 4
tightening torque [lbf·in] / with screw-type terminals	
• minimum • maximum	22 lbf·in 31 lbf·in
tightening torque / with screw-type terminals	
• minimum • maximum	2.5 N·m 3.5 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 modular width units	1
fastening method	Quick assembly system
mounting position	any
net weight	151 g
Environmental conditions	
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
vibration resistance / acc. to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s ² at 25 to 150Hz
ambient temperature / during storage	
• minimum • maximum	-40 °C 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
- acc. to IEC 81346-2

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General Product Approval



[Miscellaneous](#)



EMC

Declaration of
Conformity

Test Certificates

Marine / Shipping



[Miscellaneous](#)

[Special Test Certificate](#)



Marine / Shipping

other

Railway



[Miscellaneous](#)

[Vibration and Shock](#)

[Confirmation](#)

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=5SY4102-8>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4102-8>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4102-8

CAX-Online-Generator

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

Tender specifications

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

