

Circuit breaker Universal current 220 V DC 230/400 V AC 10kA, 1-pole, B, 06A



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	1
Number of poles / Note	1P
Tripping characteristic class	B
circuit-breaker / Design	5SY5
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	III
Degree of pollution	3
Voltage	
Insulation voltage	
• at DC / rated value	250 V
• 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	
Type of voltage	AC/DC
Operating current / at AC / rated value	6 A
Supply voltage	
• at AC / rated value	400 V
• at DC / rated value	220 V
Operating voltage	
• at DC / rated value / 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	
• at DC / acc. to IEC 60947-2 / rated value	15 kA
• acc. to EN 60898 / rated value	10 kA
Energy limiting class	3
Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.1 W
Current	
Tripping residual / rated value / derated current / at 40 Cel	5.63 A
Suitability for operation	universal current
Product details	
Product function / neutral conductor switching	No
Product feature / Touch protection	Yes
Product component	
• combined terminal top	Yes
• combined terminal bottom	Yes
Product feature	
• Properties for main switches in accordance with EN 60204-1	Yes
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes

Short circuit

Breaking capacity short-circuit current (I_{cn})

- at DC / acc. to EN 60898-2

10 kA

Connections

Connectable conductor cross-section / solid

- minimum
- maximum

0.75 mm²

35 mm²

Connectable conductor cross-section / stranded

- minimum
- maximum

0.75 mm²

35 mm²

Connectable conductor cross-section / finely stranded / with core end processing

- minimum
- maximum

0.75 mm²

25 mm²

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

AC as required, observe DC polarity

Mechanical Design

Height

90 mm

Width

18 mm

Depth

76 mm

Installation depth

70 mm

Number of width units

1

Mounting type

Quick assembly system

Mounting position

any

Net weight

163 g

Environmental conditions

Influence of the surrounding temperature

max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C

Ambient temperature

- minimum
- maximum

-40 °C

70 °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
- acc. to DIN EN 81346-2

F

F

General Product Approval

Declaration of
Conformity

Test Certific-
ates



CCC



UR



VDE

[Miscellaneous](#)



EG-Konf.

[Miscellaneous](#)

Test Certific-
ates

Railway

[Special Test Certi-
ficate](#)

[Confirmation](#)

[Vibration and Shock](#)

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=5SY5106-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY5106-6>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5106-6

CAX-Online-Generator

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

Tender specifications

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



