

Miniature circuit breaker 400 V 6kA, 3+N-pole B, 10A, D=70 mm



Model

Product brand name	SENTRON
Product designation	Miniature circuit breaker

General technical data

Number of poles	4
Number of poles / Note	3P+N
Tripping characteristic class	B
circuit-breaker / Design	5SY6
Mechanical service life (switching cycles) / typical	10 000
Oversvoltage category	III

Voltage

Insulation voltage	
<ul style="list-style-type: none"> • with single-phase operation / at AC / rated value 	440 V
<ul style="list-style-type: none"> • with multi-phase operation / at AC / rated value 	440 V

Supply voltage

Type of voltage	AC
Current / at AC / rated value	10 A

Supply voltage	
<ul style="list-style-type: none"> • at AC / rated value 	400 V
Operating voltage	
<ul style="list-style-type: none"> • at DC / rated value / maximum 	72 V
Supply voltage frequency	
<ul style="list-style-type: none"> • rated value 	50/60 Hz

Protection class	
Protection class IP	IP20, with connected conductors

Switching capacity	
Switching capacity current	
<ul style="list-style-type: none"> • at DC / acc. to IEC 60947-2 / rated value 	15 kA
<ul style="list-style-type: none"> • acc. to EN 60898 / rated value 	6 kA
<ul style="list-style-type: none"> • acc. to IEC 60947-2 / rated value 	15 kA
Energy limiting class	3

Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.3 W

Current	
Tripping residual / rated value / derated current / at 40 Cel	9.52 A
Suitability for operation	Mechanical engineering / industry

Product details	
Product function / neutral conductor switching	Yes
Product feature / Touch protection	Yes
Product component	
<ul style="list-style-type: none"> • combined terminal top 	Yes
<ul style="list-style-type: none"> • combined terminal bottom 	Yes
Product feature	
<ul style="list-style-type: none"> • Properties for main switches in accordance with EN 60204-1 	Yes
<ul style="list-style-type: none"> • halogen-free 	Yes
<ul style="list-style-type: none"> • sealable 	Yes
<ul style="list-style-type: none"> • silicon-free 	Yes
Product extension / can be installed / supplementary devices	Yes

Short circuit	
Breaking capacity short-circuit current (I _{cn})	
<ul style="list-style-type: none"> • at AC / acc. to UL 1077 and CSA C22.2 No.235 	5 kA

Connections	
<ul style="list-style-type: none"> • Connectable conductor cross-section 	

— solid	0.75 ... 35 mm ²
— stranded	0.75 ... 35 mm ²
• Connectable conductor cross-section / finely stranded / with core end processing	0.75 ... 25 mm ²
AWG number / as coded connectable conductor cross section	18 ... 4
Tightening torque [lbf-in] / with screw-type terminals	22 ... 31 lbf-in
Tightening torque / with screw-type terminals	2.5 ... 3.5 N·m
Position / of power supply cord	Any

Mechanical Design

Height	90 mm
Width	72 mm
Depth	76 mm
Installation depth	70 mm
Number of width units	4
Mounting type	Quick assembly system
Mounting position	any
Net weight	607 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	-25 ... +55 °C
• during storage	-40 ... +75 °C

Certificates

Reference code	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

General Product Approval



[Miscellaneous](#)



Declaration of Conformity	Test Certificates	Shipping Approval
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[Miscellaneous](#)



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=5SY6610-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY6610-6>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6610-6

CAX-Online-Generator

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

Tender specifications

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





