

Miniature circuit breaker 230/400 V 6kA, 1-pole, C, 2A, D=70 mm



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	1
Number of poles / Note (tripping characteristic class)	1P C
circuit-breaker / Design	5SY6
Mechanical service life (switching cycles) / typical	10 000
Overvoltage 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	
Supply voltage	
<ul style="list-style-type: none"> at AC / rated value 	400 V

Supply voltage frequency / 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 	30 kA
Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.2 W
Electricity	
Tripping residual / rated value / derated current / at 40 Cel	1.9 A
Suitability for operation	Mechanical engineering / industry
Product details	
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 <hr/>	0.75 ... 35
<ul style="list-style-type: none"> — stranded <hr/>	0.75 ... 35
<ul style="list-style-type: none"> • Connectable conductor cross-section / finely stranded / with core end processing <hr/>	0.75 ... 25

AWG number / as coded connectable conductor cross section	18 ... 4
Tightening torque [lbf·in] / with screw-type terminals	22 ... 31
Tightening torque / with screw-type terminals	2.5 ... 3
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)	Quick assembly system
(mounting position)	any
(net weight)	153 g

Environmental conditions

Ambient temperature	-25 ... +55
	-40 ... +75

Certificates

Reference code	
<ul style="list-style-type: none"> • acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2 	<p>F</p> <p>F</p>

General Product Approval



CCC



IMQ



UR



VDE

[Miscellaneous](#)



RCM

General
Product Ap-
proval

[KC](#)



EG-Konf.

Declaration of
Conformity

Test Certific-
ates

[Miscellaneous](#)

Shipping Approval



ABS



BUREAU
VERITAS



LRS

Shipping Approval



RINA

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=5SY6102-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY6102-7>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6102-7

CAX-Online-Generator

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

Tender specifications

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



