

CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 8A,
D=70MM

Model		
product brand name		SENTRON
Product designation		5SY miniature circuit breaker
Design of the product		5SY miniature circuit breakers

General technical data		
Number of poles		1
Number of poles / Note		1P
Tripping characteristic class		C
circuit-breaker / Design		5SY6
Mechanical service life (switching cycles) / typical		20 000
Overvoltage category		3

Voltage		
Type of voltage		AC/DC
Insulation voltage		
<ul style="list-style-type: none"> with single-phase operation / with AC / Rated value 	V	250
<ul style="list-style-type: none"> with multi-phase operation / with AC / Rated value 	V	440

Supply voltage		
Supply voltage / with AC / Rated value	V	400
Supply voltage frequency / Rated value	Hz	50

Protection class		
Protection class IP		IP20, with connected conductors
Energy limiting class		3

Switching capacity		
Switching capacity current		
<ul style="list-style-type: none"> for DC / acc. to IEC 60947-2 / Rated value 	kA	15
<ul style="list-style-type: none"> acc. to EN 60898 / Rated value 	kA	6
<ul style="list-style-type: none"> acc. to IEC 60947-2 / Rated value 	kA	15

Dissipation		
Active power loss		
<ul style="list-style-type: none"> for rated value of the current / with AC / in hot operating state / per pole 	W	0.9

Electricity		
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rated current I _n / IEC, DIN/VDE / at 40 Cel	A	7.52
Current / with AC / Rated value	A	8

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 property		
<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 expansion / can be installed / supplementary devices		Yes

Product function

Product function / neutral conductor switching		No
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Short circuit

Breaking capacity short-circuit current (I_{cn})		
<ul style="list-style-type: none"> with AC / acc. to UL 1077 and CSA C22.2 No.235 	kA	5
<ul style="list-style-type: none"> for DC / acc. to EN 60898-2 	kA	10

Number

Number of test cycles / for environmental testing / acc. to IEC 60068-2-30		6
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Connections

Connectable conductor cross-section / stranded		
<ul style="list-style-type: none"> minimum 	mm ²	0.75
<ul style="list-style-type: none"> maximum 	mm ²	35
Connectable conductor cross-section		
<ul style="list-style-type: none"> solid 		
<ul style="list-style-type: none"> — minimum 	mm ²	0.75
<ul style="list-style-type: none"> — maximum 	mm ²	35
<ul style="list-style-type: none"> finely stranded / with core end processing 		
<ul style="list-style-type: none"> — minimum 	mm ²	0.75
<ul style="list-style-type: none"> — maximum 	mm ²	25
AWG number / as coded connectable conductor cross section		
<ul style="list-style-type: none"> minimum 		14
<ul style="list-style-type: none"> maximum 		4
Tightening torque [lbf-in] / with screw-type terminals		

• minimum	lbf·in	22
• maximum	lbf·in	26
Tightening torque / with screw-type terminals		
• minimum	N·m	2.5
• maximum	N·m	3
Position / of power supply cord		Any

Mechanical Design

Height	mm	90
Width	mm	18
Depth	mm	76
mounting position		any
Installation depth	mm	70
Number of width units		1
Mounting type		Quick assembly system
Net weight	g	158

Environmental conditions

Influence of the surrounding temperature		Max. 95% humidity
Shock resistance / acc. to IEC 60068-2-27		150m/s ² at 11ms half-sine
Vibration resistance / acc. to IEC 60068-2-6		50m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)
Ambient temperature		
• minimum	°C	-25
• maximum	°C	55
• during storage / minimum	°C	-40
• during storage / maximum	°C	75

Certificates

Equipment marking / acc. to DIN EN 61346-2		F
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General Product Approval



CCC



IMQ



GOST



UL



VDE

[other](#)

General Product Approval

Declaration of Conformity

Test Certificates

Shipping Approval



[KTL](#)



EG-Konf.

[other](#)



Shipping Approval

other



GL



LRS



RINA

[other](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SY61087>

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

<http://support.automation.siemens.com/WW/view/en/5SY61087/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY61087

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

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