

CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 2A, 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		5SY4
Mechanical service life (switching cycles) / typical		20 000
Overvoltage category		3

Voltage		
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 frequency		

- Rated value

Hz 50

Protection class

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

Switching capacity

Switching capacity current		
• for DC / acc. to IEC 60947-2 / Rated value	kA	15
• acc. to EN 60898 / Rated value	kA	10
• acc. to IEC 60947-2 / Rated value	kA	35

Dissipation

Active power loss		
• for rated value of the current / with AC / in hot operating state / per pole	W	1.2

Electricity

rated current I_n / IEC, DIN/VDE		
• at 40 Cel	A	1.9
Current / with AC		
• Rated value	A	2
Net weight	g	166

Appearance

Product details

Product feature		Yes
• Touch protection		Yes
Product component		
• combined terminal top		Yes
• combined terminal bottom		Yes
Product property		
• Properties for main switches in accordance with EN 60204-1		Yes
• halogen-free		Yes
• sealable		Yes
• silicon-free		Yes
Product expansion / can be installed		
• supplementary devices		Yes

Product function

Product function		
• neutral conductor switching		No

Short circuit

Breaking capacity short-circuit current (I_{cn})		
• with AC / acc. to UL 1077 and CSA C22.2 No.235	kA	5

- for DC / acc. to EN 60898-2

kA	10
----	----

Number

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

6

Connections

Connectable conductor cross-section / stranded

- | | | |
|-----------|-----------------|------|
| • minimum | mm ² | 0.75 |
| • maximum | mm ² | 35 |

Connectable conductor cross-section

- | | | |
|--|-----------------|------|
| • solid | | |
| — minimum | mm ² | 0.75 |
| — maximum | mm ² | 35 |
| • finely stranded / with core end processing | | |
| — minimum | mm ² | 0.75 |
| — maximum | mm ² | 25 |

AWG number / as coded connectable conductor cross section

- | | |
|-----------|----|
| • minimum | 14 |
| • 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

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
- during storage / minimum
- during storage / maximum

°C	55
°C	-40
°C	75

Certificates

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

General Product Approval



General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval
---------------------------------	----------------------------------	--------------------------	--------------------------

[KTL](#)



[other](#)

[Special Test Certificate](#)



Shipping Approval



[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/5SY41027>

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

<http://support.automation.siemens.com/WW/view/en/5SY41027/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SY41027

CAX-Online-Generator

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

Tender specifications

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

