



CIRCUIT BREAKER 230/400V 25KA, 1POLE, D, 63A, 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		D
circuit-breaker / Design		5SY8
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 IEC 60947-2 / Rated value	kA	20

Dissipation

Active power loss		
• for rated value of the current / with AC / in hot operating state / per pole	W	5

Electricity

rated current I_n / IEC, DIN/VDE / at 40 Cel	A	59.22
Current / with AC / Rated value	A	63

Product details

Product feature / 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
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Short circuit

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

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		
• minimum	mm ²	0.75
• maximum	mm ²	35
Connectable conductor cross-section		
• solid		
— minimum	mm ²	0.75
— maximum	mm ²	35

<ul style="list-style-type: none"> finely stranded / with core end processing <ul style="list-style-type: none"> — minimum — maximum 	mm ²	0.75
	mm ²	25
AWG number / as coded connectable conductor cross section		
<ul style="list-style-type: none"> minimum maximum 		14
		4
Tightening torque [lbf·in] / with screw-type terminals		
<ul style="list-style-type: none"> minimum maximum 	lbf·in	22
	lbf·in	26
Tightening torque / with screw-type terminals		
<ul style="list-style-type: none"> minimum maximum 	N·m	2.5
	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		
<ul style="list-style-type: none"> minimum maximum during storage / minimum during storage / maximum 	°C	-25
	°C	55
	°C	-40
	°C	75

Certificates

Equipment marking / acc. to DIN EN 61346-2		F
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General Product Approval	Declaration of Conformity	other
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[other](#)



[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/5SY81638>

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

<http://support.automation.siemens.com/WW/view/en/5SY81638/all>

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

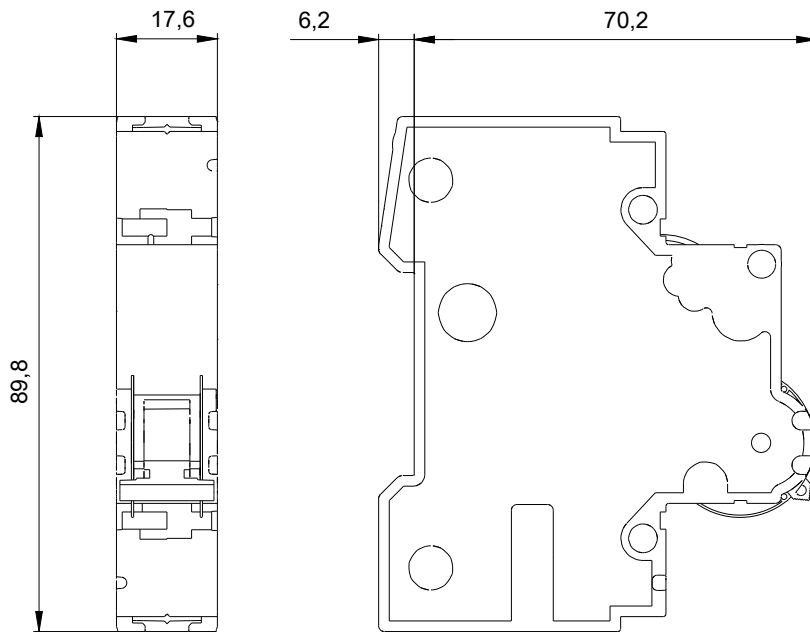
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SY81638

CAX-Online-Generator

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

Tender specifications

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



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