



CIRCUIT BREAKER 400V 25KA, 2POLE, C, 50A, 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		2
Number of poles / Note		2P
Tripping characteristic class		C
circuit-breaker / Design		5SY8
Mechanical service life (switching cycles) / typical		20 000
Overtoltage category		3

Voltage		
Insulation voltage		
<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		
<ul style="list-style-type: none"> for DC / acc. to IEC 60947-2 / Rated value 	kA	15

- acc. to EN 60898 / Rated value
- acc. to IEC 60947-2 / Rated value

kA	25
kA	25

Dissipation

Active power loss

- for rated value of the current / with AC / in hot operating state / per pole

W	3.8
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Electricity

rated current I_n / IEC, DIN/VDE / at 40 Cel

A	47
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Current / with AC / Rated value

A	50
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Product details

Product feature / Touch protection

	Yes
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Product component

- combined terminal top
- combined terminal bottom

	Yes
	Yes

Product property

- Properties for main switches in accordance with EN 60204-1
- halogen-free
- sealable
- silicon-free

	Yes
	Yes
	Yes
	Yes

Product expansion / can be installed / supplementary devices

	Yes
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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
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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
- maximum

mm ²	0.75
mm ²	35

Connectable conductor cross-section

- solid
 - minimum
 - maximum
- finely stranded / with core end processing

mm ²	0.75
mm ²	35

— 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	36
Depth	mm	76
mounting position		any
Installation depth	mm	70
Number of width units		2
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	°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	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/5SY82507>

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

<http://support.automation.siemens.com/WW/view/en/5SY82507/all>

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

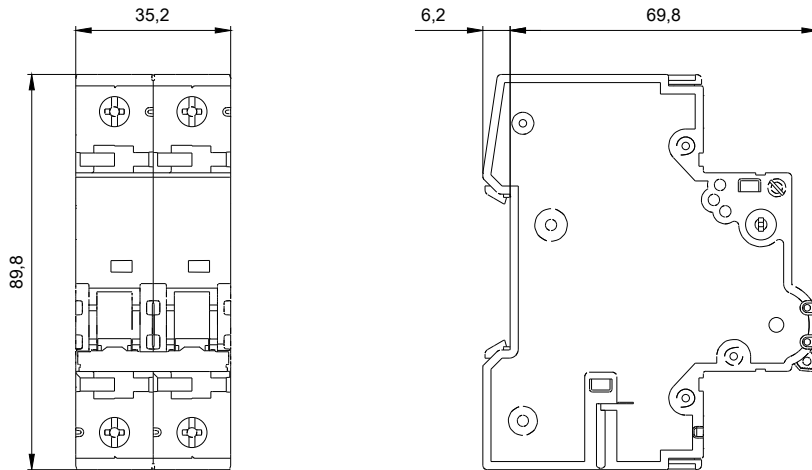
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SY82507

CAX-Online-Generator

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

Tender specifications

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



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