

CIRCUIT BREAKER 230/400V 25KA, 1POLE, D, 50A, D=70MM



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	1
Number of poles / Note	1P
Tripping characteristic class	D
characteristic / Let-through current characteristic	DS_5SY_D_50
circuit-breaker / Design	5SY8
Mechanical service life (switching cycles) / typical	20 000
Overvoltage category	3
Voltage	
Type of voltage	AC/DC
Insulation voltage	
• with single-phase operation / at AC / rated value	250 V
• with multi-phase operation / at AC / rated value	440 V
Supply voltage	

Supply voltage / at AC / rated value	400 V
Supply voltage frequency	
• rated value	50/60 Hz
Protection class	
Protection class IP	IP20, with connected conductors
Energy limiting class	3
Switching capacity	
Switching capacity current	
• at DC / acc. to IEC 60947-2 / rated value	15 kA
• acc. to IEC 60947-2 / rated value	20 kA
Dissipation	
Power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	3.7 W
• maximum	3.7 W
Electricity	
rated current I _n / IEC, DIN/VDE / at 40 Cel	47 A
Current / at AC / rated value	50 A
Current limitation characteristic, no. / Let-through energy	DE_5SY_D_50
Suitability for operation	Mechanical engineering / industry
Product details	
Product feature / Touch protection	Yes
Product component	
• combined terminal top	Yes
• combined terminal bottom	Yes
Product feature	
• Properties for main switches in accordance with EN 60204-1	Yes
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes
Product function	
Product function / neutral conductor switching	No
Short circuit	
Breaking capacity short-circuit current (I_{cn})	
• at AC / acc. to UL 1077 and CSA C22.2 No.235	5 kA
Number	

Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6
Connections	
Connectable conductor cross-section / stranded	
• minimum	0.75 mm ²
• maximum	35 mm ²
Connectable conductor cross-section	
• solid	
— minimum	0.75 mm ²
— maximum	35 mm ²
• finely stranded / with core end processing	
— minimum	0.75 mm ²
— maximum	25 mm ²
AWG number / as coded connectable conductor cross section	
• minimum	14
• maximum	4
Tightening torque [lbf·in] / with screw-type terminals	
• minimum	22 lbf·in
• maximum	26 lbf·in
Tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m
Position / of power supply cord	Any
Mechanical Design	
Height	90 mm
Width	18 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	1
Mounting type	Quick assembly system
Net weight	158 g
Environmental conditions	
Degree of pollution	3
Influence of the surrounding temperature	Max. 95% humidity
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	-25 °C
• maximum	55 °C
• during storage / minimum	-40 °C

- during storage / maximum

75 °C

Certificates

Equipment marking / acc. to DIN EN 61346-2

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General Product Approval

Declaration of Conformity



UL

[Miscellaneous](#)



EG-Konf.

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=5SY8150-8>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY8150-8>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8150-8

CAX-Online-Generator

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

Tender specifications

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



