

Miniature circuit breaker 230 V D=70 mm 25 kA according to EN 60947-2, 1P+N, C10



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	2
Number of poles / Note	1P+N
Tripping characteristic class	C
circuit-breaker / Design	5SY8
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	III
Degree of pollution	3
Voltage	
Insulation voltage	250 V
• with single-phase operation / at AC / rated value	
Supply voltage / with single-phase operation / at AC / rated value	230 V
Supply voltage	

Type of voltage	AC
Operating current / at AC / rated value	10 A
Supply voltage • at AC / rated value	230 V
Operating voltage • at DC / rated value / maximum	72 V
Supply voltage frequency • rated value	50/60 Hz
Protection class	
Protection class IP	IP20, with connected conductors
Switching capacity	
Switching capacity current • at DC / acc. to IEC 60947-2 / rated value • acc. to IEC 60947-2 / rated value	15 kA 40 kA
Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.1 W
Suitability for operation	Mechanical engineering / industry
Product details	
Product function / neutral conductor switching	Yes
Product feature / Touch protection	Yes
Product component • combined terminal top • combined terminal bottom	Yes Yes
Product feature • Properties for main switches in accordance with EN 60204-1 • halogen-free • sealable • silicon-free	Yes Yes Yes Yes
Product extension / can be installed / supplementary devices	Yes
Short circuit	
Breaking capacity short-circuit current (I _{cn}) • at AC / acc. to UL 1077 and CSA C22.2 No.235	5 kA
Connections	
Connectable conductor cross-section / solid • minimum • maximum	0.75 mm ² 35 mm ²
Connectable conductor cross-section / stranded	

• minimum • maximum	0.75 mm ² 35 mm ²
Connectable conductor cross-section / finely stranded / with core end processing	
• minimum • maximum	0.75 mm ² 25 mm ²
AWG number / as coded connectable conductor cross section	
• minimum • maximum	18 4
Tightening torque [lbf·in] / with screw-type terminals	
• minimum • maximum	22 lbf·in 31 lbf·in
Tightening torque / with screw-type terminals	
• minimum • maximum	2.5 N·m 3.5 N·m
Position / of power supply cord	Any

Mechanical Design

Height	90 mm
Width	36 mm
Depth	76 mm
Installation depth	70 mm
Number of width units	2
Mounting type	Quick assembly system
Mounting position	any
Net weight	316 g

Environmental conditions

Influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
Ambient temperature	
• minimum • maximum	-25 °C 55 °C
Ambient temperature / during storage	
• minimum • maximum	-40 °C 75 °C
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6

Certificates

Reference code	
• acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2	F F



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[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=5SY8510-7>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/5SY8510-7>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8510-7**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>

