SIEMENS

Data sheet 5SY8503-8



Miniature circuit breaker 230 V D=70 mm 25 kA according to EN 60947-2, 1P+N, D3 $\,$

Model		
product brand name	SENTRON	
product designation	Miniature circuit breaker	
General technical data		
number of poles	2	
design of pole	1P+N	
tripping characteristic class	D	
mechanical service life (switching cycles) typical	10 000	
overvoltage category	III	
degree of pollution	3	
Voltage		
type of voltage of the operating voltage	AC	
insulation voltage (Ui)		
 with single-phase operation at AC rated value 	250 V	
supply voltage with single-phase operation at AC rated value	230 V	
Supply voltage		
supply voltage		
 at AC rated value 	230 V	
value range of the supply voltage frequency	50/60 Hz	
operating voltage at DC rated value maximum	72 V	
Protection class		
protection class IP	IP20, with connected conductors	
Switching capacity		
switching capacity current		
 at DC according to IEC 60947-2 rated value 	15 kA	
 according to IEC 60947-2 rated value 	50 kA	
Dissipation		
power loss [W] for rated value of the current at AC in hot operating state per pole	1.2 W	
Current		
operational current		
 at 45 °C rated value 	3 A	
 at 50 °C rated value 	2.91 A	
 at 55 °C rated value 	2.81 A	
 at AC rated value 	3 A	
suitability for operation	Mechanical engineering / industry	
Product details		
product component		
 combined terminal top 	Yes	

- complete and to wastered to otherwa	Vac		
combined terminal bottom pourtal conductor quitabing	Yes Yes		
neutral conductor switching	res		
product feature	Vee		
 properties for main switches in accordance with EN 60204-1 	Yes		
halogen-free	Yes		
• sealable	Yes		
• silicon-free	Yes		
product extension installable supplementary devices	Yes		
Short circuit			
breaking capacity short-circuit current (Icn)			
• at AC according to UL 1077 and CSA C22.2 No.235	5 kA		
Connections	0101		
connectable conductor cross-section solid			
minimum	0.75 mm²		
maximum	35 mm ²		
	35 111111		
connectable conductor cross-section stranded • minimum	0.75 mm²		
· · · · · · · · · · · · · · · · · · ·	35 mm ²		
• maximum	35 111111-		
connectable conductor cross-section finely stranded with core end processing			
minimum	0.75 mm ²		
• maximum	25 mm²		
AWG number as coded connectable conductor cross	20 111111		
section			
• minimum	18		
maximum	4		
tightening torque [lbf·in] with screw-type terminals			
• minimum	22 lbf·in		
• maximum	31 lbf·in		
tightening torque with screw-type terminals			
• minimum	2.5 N·m		
• maximum	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 modular width units	2		
fastening method			
mounting position	Quick assembly system		
net weight	any 318 g		
Environmental conditions	310 g		
influence of the surrounding temperature	may 95% to 55°C may 550	% to 70°C may 35% to 75°C	
vibration resistance according to IEC 60068-2-6	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz		
	± 1111111 at 3 t0 23⊓2, 30111/S*	at 20 to 100112	
ambient temperature during operation • minimum	-25 °C		
maximum	-25 °C		
	33 6		
ambient temperature during storage • minimum	-40 °C		
minimum maximum	-40 °C 75 °C		
number of test cycles for environmental testing according	6		
to IEC 60068-2-30			
Certificates			
reference code			
according to EN 61346-2	F		
• according to IEC 81346-2	F		
General Product Approval		Declaration of Conformity	









other

Environmental Confirmations

Miscellaneous

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=5SY8503-8

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY8503-8

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8503-8

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







