SIEMENS

Data sheet 5SY8310-8



Miniature circuit breaker 400 V D=70 mm 25 kA according to EN 60947-2, 3P, D10 $\,$

Model		
product brand name	SENTRON	
product designation	Miniature circuit breaker	
General technical data		
number of poles	3	
design of pole	3P	
tripping characteristic class	D	
mechanical service life (operating cycles) typical	10 000	
overvoltage category		
degree of pollution	3	
Voltage		
type of voltage of the operating voltage	AC	
insulation voltage (Ui)		
 with single-phase operation at AC rated value 	440 V	
 with multi-phase operation at AC rated value 	440 V	
supply voltage with single-phase operation at AC rated value	230 V	
Supply voltage		
supply voltage		
 at AC rated value 	400 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 	40 kA	
Dissipation		
power loss [W] for rated value of the current at AC in hot operating state per pole	0.9 W	
Current		
operational current		
 at 45 °C rated value 	10 A	
 at 50 °C rated value 	9.75 A	
 at 55 °C rated value 	9.49 A	
 at AC rated value 	10 A	
suitability for operation	Mechanical engineering / industry	
Product details		
product component		

- combined towning too	Vaa
combined terminal top	Yes
combined terminal bottom	Yes
neutral conductor switching	No
product feature	
 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	
short-circuit current breaking capacity (Icn)	
at AC according to UL 1077 and CSA C22.2 No.235	5 kA
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm ²
maximum	35 mm²
connectable conductor cross-section stranded	
• minimum	0.75 mm²
• maximum	35 mm²
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm²
• maximum	25 mm²
AWG number as coded connectable conductor cross 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	54 mm
depth	76 mm
installation depth	70 mm
number of modular width units	3
fastening method	Quick assembly system
mounting position	any
net weight	444 g
Environmental conditions	
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz
ambient temperature during operation	Thin at 0 to Lonz, come at 20 to 100 12
minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
minimum	-40 °C
• maximum	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	6
Certificates	
reference code	T.
according to EN 61346-2 according to EC 81346-2	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=5SY8310-8

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY8310-8

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8310-8

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







