SIEMENS

Data sheet 5SY4103-5



Miniature circuit breaker 230/400 V 10kA, 1-pole, A, 3 A, D=70 mm

product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
tripping characteristic class	A
mechanical service life (switching cycles) / typical	10 000
overvoltage category	
degree of pollution	3
Voltage	
insulation voltage	
 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
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 	15 kA
acc. to EN 60898 / rated value	10 kA
• acc. to IEC 60947-2 / rated value	35 kA
Dissipation	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.9 W
Current	
operational current	
• at 35 °C / rated value	3 A
at 40 °C / rated value	2.82 A
at 45 °C / rated value	2.72 A
at 50 °C / rated value	2.62 A
	2.52 A

• at 60 °C / rated value	2.41 A
at AC / rated value	3 A
suitability for operation	Mechanical engineering / industry
Product details	, , , , , , , , , , , , , , , , , , ,
product function / neutral conductor switching	No
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 / installable / supplementary devices	Yes
Short circuit	
breaking capacity short-circuit current (Icn)	
• at AC / acc. to UL 1077 and CSA C22.2 No.235	5 kA
Connections	
connectable conductor cross-section / solid	
• minimum	0.75 mm²
• maximum	35 mm ²
connectable conductor cross-section / stranded	0.75
• minimum	0.75 mm²
• maximum	35 mm ²
connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm²
• maximum	25 mm ²
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	2.5 N.m.
minimum maximum	2.5 N·m 3.5 N·m
position / of power supply cord	Any
Mechanical Design	Ally
	90 mm
height width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
fastening method	Quick assembly system
mounting position	any
net weight	173 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 / acc. to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C
number of test cycles / for environmental testing / acc. to	6
IEC 60068-2-30	

Certificates

reference code

• acc. to DIN EN 61346-2

acc. to IEC 81346-2General Product Approval

Declaration of Conformity

Test Certificates





Miscellaneous

F

F





<u>Miscellaneous</u>

Test Certificates

Marine / Shipping

other

Railway

Special Test Certificate



Miscellaneous

Vibration and Shock

Confirmation

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=5SY4103-5

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4103-5

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4103-5

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications

