SIEMENS

Data sheet 5SY4103-6



circuit breaker 230/400v 10ka, 1pole, b, 3a

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	В
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	440 V
with multi-phase operation / at AC / rated value	440 V
Supply voltage	
supply voltage	
at AC / rated value	400 V
operating voltage / at DC / rated value / maximum	72 V
Protection class	
protection class IP	IP20, with connected conductors
Switching capacity	
switching capacity current	
acc. to EN 60898 / rated value	10 kA
• acc. to IEC 60947-2 / rated value	35 kA
energy limitation class	3
Dissipation	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.7 W
Current	
operational current	
 at 35 °C / rated value 	3 A
 at 40 °C / rated value 	2.88 A
 at 45 °C / rated value 	2.82 A
 at 50 °C / rated value 	2.76 A
 at 55 °C / rated value 	2.69 A
 at 60 °C / rated value 	2.63 A
at AC / rated value	3 A
suitability for operation	Mechanical engineering / industry

Product details	
product component / 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
Connections	
connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• maximum	35 mm²
connectable conductor cross-section / stranded	
• minimum	0.75 mm ²
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	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	163 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 operation	
• minimum	-40 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	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	F
• acc. to IEC 81346-2	F
General Product Approval	
Ocholar Foundt Approval	









Miscellaneous



other Railway

<u>Miscellaneous</u> <u>Special Test Certific</u> <u>Miscellaneous</u> <u>Confirmation</u> <u>Vibration and Shock</u>

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=5SY4103-6

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4103-6

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4103-6

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications



