



Miniature circuit breaker 230/400 V 15kA, 1-pole, C, 10 A

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	C
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 / 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
Protection class	
protection class IP	IP20, with connected conductors
Switching capacity	
switching capacity current	
• acc. to EN 60898 / rated value	15 kA
• acc. to IEC 60947-2 / rated value	25 kA
Dissipation	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.1 W
Current	
operational current	
• at 35 °C / rated value	10 A
• at 40 °C / rated value	8.89 A
• at 45 °C / rated value	8.28 A
• at 50 °C / rated value	7.63 A
• at 55 °C / rated value	6.91 A
• at AC / rated value	10 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		No		
• 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 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		
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		165 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		-25 °C		
• maximum		55 °C		
ambient temperature / during storage				
• minimum		-40 °C		
• maximum		75 °C		
number of test cycles / for environmental testing / acc. to IEC 60068-2-30		28		
Certificates				
reference code				
• acc. to DIN EN 61346-2		F		
• acc. to IEC 81346-2		F		
General Product Approval		Declaration of Conformity	other	Railway



[Miscellaneous](#)



[Miscellaneous](#)

[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=5SY7110-7CC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY7110-7CC>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY7110-7CC

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



