



Miniature circuit breaker 400 V 15kA, 2-pole, C, 20A

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	2
design of pole	2P
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	
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 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	1.7 W
Current	
operational current	
• at 35 °C / rated value	20 A
• at 40 °C / rated value	18.54 A
• at 45 °C / rated value	17.76 A
• at 50 °C / rated value	16.94 A
• at 55 °C / rated value	16.08 A
• at AC / rated value	20 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	36 mm			
depth	76 mm			
installation depth	70 mm			
number of modular width units	2			
fastening method	Quick assembly system			
mounting position	any			
net weight	330 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](#)



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[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=5SY7220-7CC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY7220-7CC>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY7220-7CC

CAX-Online-Generator

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

Tender specifications

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



