



Miniature circuit breaker 400 V 10kA, 3-pole, B, 20A

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	3
design of pole	3P
tripping characteristic class	B
mechanical service life (operating cycles) typical	10 000
overvoltage category	3
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui)	
• with multi-phase operation at AC rated value	440 V
• operational current	
— at 40 °C rated value	18.8 A
— at 50 °C rated value	17.52 A
— at 55 °C rated value	16.84 A
• operational current at AC rated value	20 A
Supply voltage	
supply voltage	
• at AC	400 V
• at DC rated value	60 V
value range of the supply voltage frequency	50/60 Hz
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
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	10 kA
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	2.2 W
suitability for operation	Infrastructure / Industry
Product details	
product feature touch protection	Yes

product component			
• 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		
product feature halogen-free	Yes		
product feature sealable	Yes		
product feature silicon-free	Yes		
product extension installable supplementary devices	Yes		
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	54 mm		
depth	76 mm		
installation depth	70 mm		
number of modular width units	3		
fastening method	DIN rail		
mounting position	any		
Net Weight	460 g		
Environmental conditions			
influence of the surrounding temperature	max. 95% RH up to 55°C		
standard	IEC / EN 60898-1		
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz and 60 m/s² at 35 Hz (4 sec)		
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 according to IEC 60068-2-30	28		
Approvals Certificates			
Environment	General Product Approval		
 Environmental Confirmations Environmental Confirmations   Confirmation			
General Product Approval	Maritime application	other	Railway

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4320-6CC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4320-6CC>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4320-6CC

CAX-Online-Generator

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

Tender specifications

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

Characteristic curves

[https://curves.siemens.com/curves/?mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.siemens.com/curves/?mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





