

Miniature circuit breaker 400 V 25kA, 2-pole, 20 A, D=70 mm only magnetic tripping



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
Design of the product	Only magnetic tripping operation
General technical data	
Number of poles	2
Number of poles / Note	2P
Tripping characteristic class	D
Mechanical service life (switching cycles) / typical	10 000
Oversvoltage category	III
Voltage	
Insulation voltage	
<ul style="list-style-type: none"> with single-phase operation / at AC / rated value 	440 V
<ul style="list-style-type: none"> with multi-phase operation / at AC / rated value 	440 V
Supply voltage	
Type of voltage	AC
Current / at AC / rated value	20 A

Supply voltage	
<ul style="list-style-type: none"> • at AC / rated value 	400 V
Operating voltage	
<ul style="list-style-type: none"> • at DC / rated value / maximum 	72 V
Supply voltage frequency	
<ul style="list-style-type: none"> • rated value 	50/60 Hz

Protection class	
Protection class IP	IP20, with connected conductors

Switching capacity	
Switching capacity current	
<ul style="list-style-type: none"> • acc. to IEC 60947-2 / rated value 	30 kA

Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.6 W
Suitability for operation	Mechanical engineering / industry

Product details	
Product function / neutral conductor switching	No
Product feature / Touch protection	Yes
Product component	
<ul style="list-style-type: none"> • combined terminal top • combined terminal bottom 	Yes Yes
Product feature	
<ul style="list-style-type: none"> • Properties for main switches in accordance with EN 60204-1 • halogen-free • sealable • silicon-free 	Yes Yes Yes Yes
Product extension / can be installed / supplementary devices	Yes

Short circuit	
Breaking capacity short-circuit current (I _{cn})	
<ul style="list-style-type: none"> • at AC / acc. to UL 1077 and CSA C22.2 No.235 	5 kA

Connections	
<ul style="list-style-type: none"> • Connectable conductor cross-section <ul style="list-style-type: none"> — solid — stranded • Connectable conductor cross-section / finely stranded / with core end processing 	0.75 ... 35 mm ² 0.75 ... 35 mm ² 0.75 ... 25 mm ²
AWG number / as coded connectable conductor cross section	18 ... 4
Tightening torque [lbf·in] / with screw-type terminals	22 ... 31 lbf·in

Tightening torque / with screw-type terminals	2.5 ... 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 width units	2
Mounting type	Quick assembly system
Mounting position	any
Net weight	314 g

Environmental conditions

Influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
Ambient temperature	-25 ... +45 °C
<ul style="list-style-type: none"> during storage 	-40 ... +75 °C

Certificates

Reference code	F
<ul style="list-style-type: none"> acc. to DIN EN 61346-2 	

General Product Approval

[Miscellaneous](#)

Declaration of Conformity



EG-Konf.

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=5SY8220-8BB08>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY8220-8BB08>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8220-8BB08

CAX-Online-Generator

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

Tender specifications

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

