



Miniature circuit breaker 400 V 25kA, 4-pole, 16A, 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	4
design of pole	4P
tripping characteristic class	D
mechanical service life (operating 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
operational current	
• at AC rated value	16 A
Supply voltage	
supply voltage	
• at AC	400 V
value range of the supply voltage frequency	50/60 Hz
operating voltage at DC rated value maximum	72 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
• according 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	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	
Product function		
set values setting current (Ii) for I-tripping	14,5	
reference value setting current (Ii) for I-tripping	x In	
Short circuit		
short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235	5 kA	
Connections		
connectable conductor cross-section solid - minimum - maximum	0.75 mm² 35 mm²	
connectable conductor cross-section stranded - minimum - maximum	0.75 mm² 35 mm²	
connectable conductor cross-section finely stranded with core end processing - minimum - maximum	0.75 mm² 25 mm²	
AWG number as coded connectable conductor cross section - minimum - maximum	18 4	
tightening torque [lbf·in] with screw-type terminals - minimum - maximum	22 lbf·in 31 lbf·in	
tightening torque with screw-type terminals - minimum - maximum	2.5 N·m 3.5 N·m	
position of power supply cord	Any	
Mechanical Design		
height	90 mm	
width	72 mm	
depth	76 mm	
installation depth	70 mm	
number of modular width units	4	
fastening method	DIN rail	
mounting position	any	
net weight	597 g	
Environmental conditions		
influence of the surrounding temperature	max. 95% RH up to 45°C	
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz	
ambient temperature during operation - minimum - maximum	-25 °C 45 °C	
ambient temperature during storage - minimum - maximum	-40 °C 75 °C	
number of test cycles for environmental testing according to IEC 60068-2-30	28	
Approvals Certificates		
General Product Approval	other	Environment



[Miscellaneous](#)



[Confirmation](#)



Environment

Further information

Information on the packaging

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

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=5SY8416-8BB08>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY8416-8BB08>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8416-8BB08

CAX-Online-Generator

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

Tender specifications

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





