



Circuit breaker 400V, 6kA, 3-pole, C, 8A

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	3
design of pole	3P
tripping characteristic class	C
mechanical service life (operating cycles) typical	10 000
overvoltage category	3
degree of pollution	2
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 30 °C rated value	8 A
— at 40 °C rated value	7.54 A
• operational current at AC rated value	8 A
Supply voltage	
supply voltage at AC	400 V
value range of the supply voltage frequency	50/60 Hz
operating voltage	
• with multi-phase operation at AC maximum	440 V
• at DC rated value maximum	72 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	6 kA
grid spacing	35 mm
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.4 W
Product details	
product feature touch protection	No
product component neutral conductor switching	No
product feature halogen-free	Yes

product feature sealable	Yes	
product feature silicon-free	Yes	
product extension installable supplementary devices	Yes	
<b>Connections</b>		
connectable conductor cross-section solid maximum	25 mm <sup>2</sup>	
<b>connectable conductor cross-section stranded</b>		
• minimum	0.75 mm <sup>2</sup>	
• maximum	25 mm <sup>2</sup>	
<b>tightening torque with screw-type terminals</b>		
• minimum	2.5 N·m	
• maximum	3.5 N·m	
<b>Mechanical Design</b>		
height	90 mm	
width	54 mm	
depth	76 mm	
installation depth	70 mm	
number of modular width units	3	
mounting position	any	
<b>Net Weight</b>	0.495 kg	
<b>Environmental conditions</b>		
influence of the surrounding temperature	Periodically +55°C, max. 95% humidity	
vibration resistance according to IEC 60068-2-6	50 m/s <sup>2</sup> at 25 to 150 Hz	
<b>ambient temperature during operation</b>		
• minimum	-25 °C	
• maximum	45 °C	
<b>ambient temperature during storage</b>		
• minimum	-40 °C	
• maximum	75 °C	
<b>Approvals Certificates</b>		
Environment	General Product Approval	other



#### 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=5SN6308-7CN>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SN6308-7CN>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SN6308-7CN](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SN6308-7CN)

##### CAX-Online-Generator

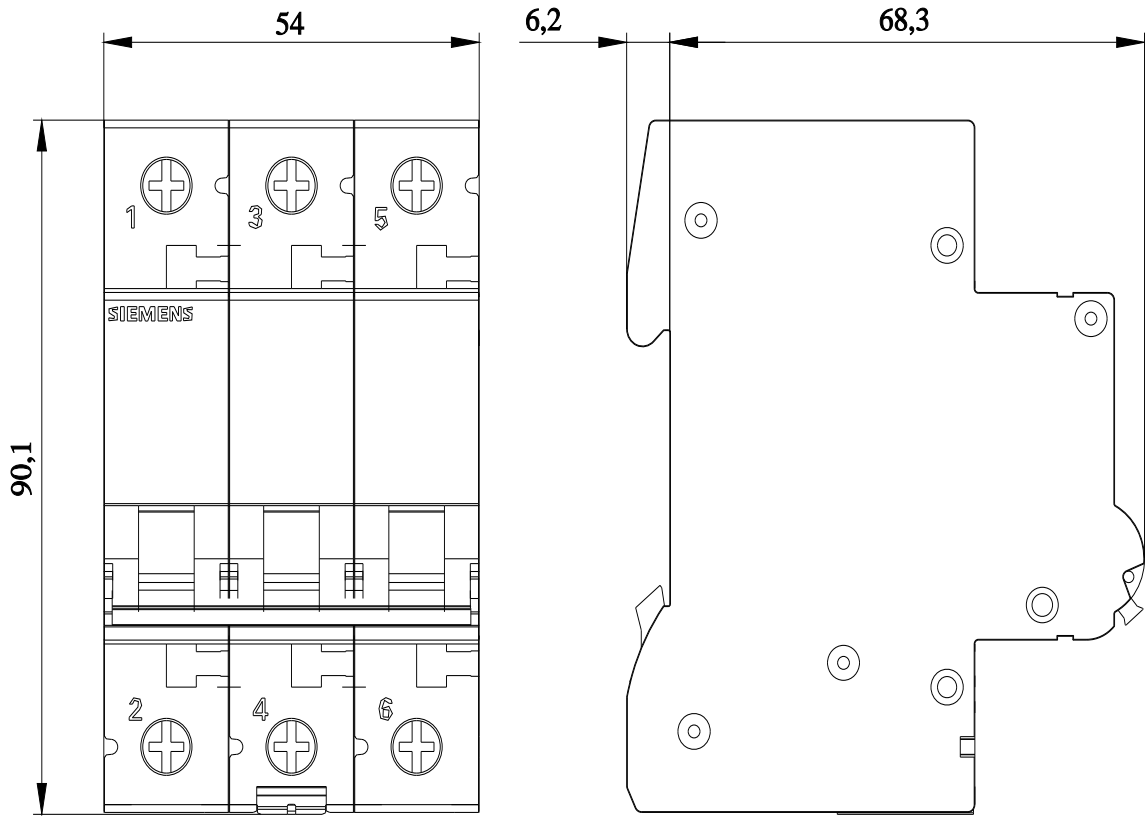
<https://www.siemens.com/cax>

##### Tender specifications

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

##### Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



last modified:

9/13/2025 