



Circuit breaker 230/400V, 6kA, 1-pole, C, 40A

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
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)	
<ul style="list-style-type: none"> <li>with single-phase operation at AC rated value</li> <li>with multi-phase operation at AC rated value</li> </ul>	250 V 440 V
<ul style="list-style-type: none"> <li>operational current                             <ul style="list-style-type: none"> <li>at 30 °C rated value</li> <li>at 40 °C rated value</li> </ul> </li> <li>operational current at AC rated value</li> </ul>	40 A 36.88 A 40 A
Supply voltage	
supply voltage at AC	400 V
value range of the supply voltage frequency	50/60 Hz
operating voltage	
<ul style="list-style-type: none"> <li>with multi-phase operation at AC maximum</li> <li>at DC rated value maximum</li> </ul>	440 V 72 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
<ul style="list-style-type: none"> <li>according to EN 60898 rated value</li> </ul>	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	3.3 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

#### Connections

connectable conductor cross-section solid maximum	25 mm <sup>2</sup>
connectable conductor cross-section stranded	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
tightening torque with screw-type terminals	
• minimum	2.5 N·m
• maximum	3.5 N·m

#### Mechanical Design

height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
mounting position	any
Net Weight	0.165 kg

#### Environmental conditions

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
ambient temperature during operation	
• minimum	-25 °C
• maximum	45 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C

#### Approvals Certificates

Environment	General Product Approval	other
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#### 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=5SN6140-7CN>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/5SN6140-7CN>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SN6140-7CN](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SN6140-7CN)

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=)



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