



Miniature circuit breaker 400 V 6kA, 2-pole, C, 80A

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	2
design of pole	2P
tripping characteristic class	C
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	75.2 A
— at 50 °C rated value	70.08 A
— at 55 °C rated value	67.36 A
• operational current at AC rated value	80 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
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	6 kA
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	5.6 W
suitability for operation	Infrastructure / Industry
Product details	
product feature touch protection	Yes
product component	

- combined terminal top - combined terminal bottom - neutral conductor switching	Yes Yes 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 - maximum	0.75 mm ² 35 mm ²
connectable conductor cross-section stranded	
- minimum - maximum	0.75 mm ² 35 mm ²
connectable conductor cross-section finely stranded with core end processing	
- minimum - maximum	0.75 mm ² 25 mm ²
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	36 mm
depth	76 mm
installation depth	70 mm
number of modular width units	2
fastening method	DIN rail
mounting position	any
Net Weight	0.32 kg
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/s ² at 25 to 150 Hz and 60 m/s ² at 35 Hz (4 sec)
ambient temperature during operation	
- minimum - maximum	-25 °C 55 °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	
Environment	General Product Approval
Environmental Confirmations	Environmental Confirmations
	
	Miscellaneous
	
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=5SY6280-7CC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY6280-7CC>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6280-7CC

CAx-Online-Generator

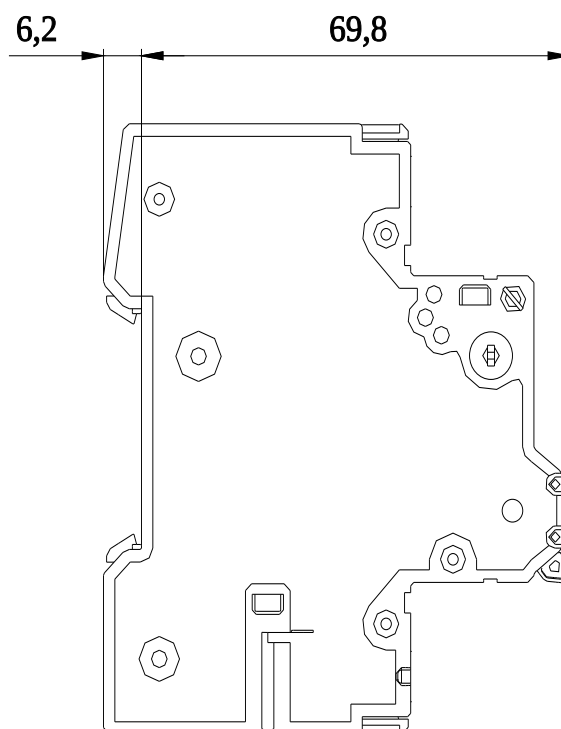
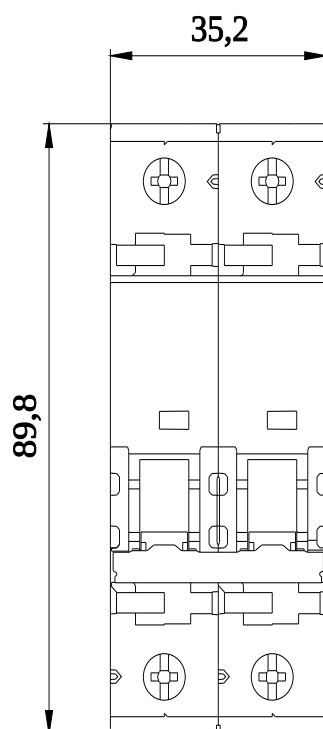
<https://www.siemens.com/cax>

Tender specifications

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

Characteristic curves

https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>





CB

