



Miniature circuit breaker 400 V 15kA, 2-pole, C, 50 A

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	46.35 A
— at 50 °C rated value	42.35 A
— at 55 °C rated value	40.2 A
• operational current at AC rated value	50 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 IEC 60947-2 rated value	20 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	4.8 W
suitability for operation	Infrastructure / Industry
Product details	
product feature touch protection	Yes
product component	
• combined terminal top	Yes

- combined terminal bottom - neutral conductor switching	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 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	
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 60947-2	
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz and 60 m/s² 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	Maritime application	other

Railway

[Confirmation](#)

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=5SY7250-7CC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY7250-7CC>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY7250-7CC

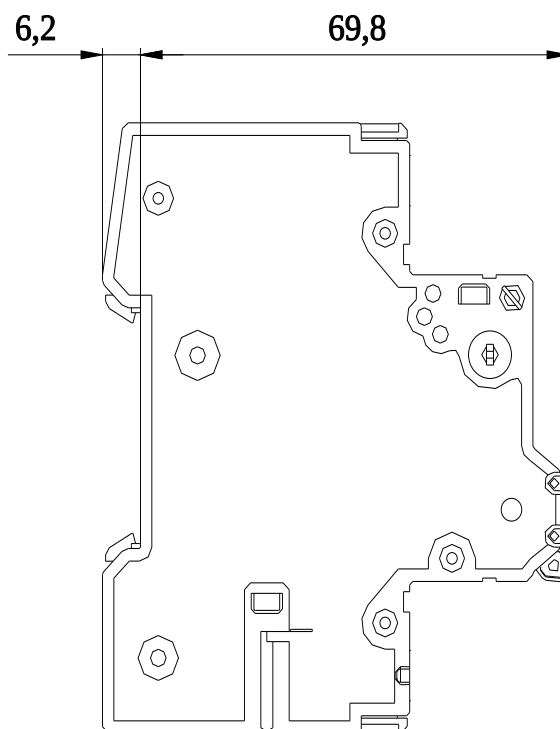
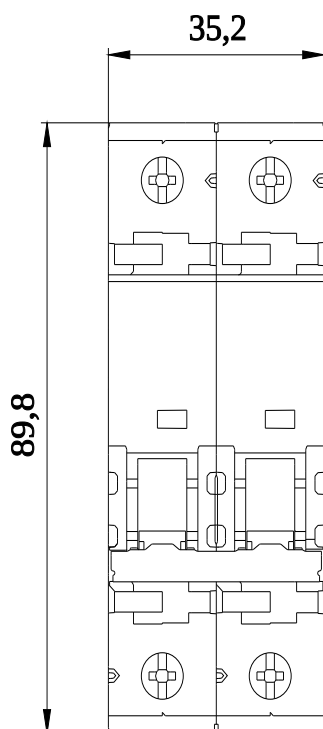
CAx-Online-Generator

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




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