



Miniature circuit breaker 230/400 V 10kA, 1-pole, C, 100 A, D=70 mm

Figure similar

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	3
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui)	
• at AC rated value	440 V
• with single-phase operation at AC rated value	250 V
• with multi-phase operation at AC rated value	440 V
operational current	
— at 30 °C rated value	100 A
— <b>at 40 °C rated value</b>	92.5 A
— at 50 °C rated value	85 A
— at 60 °C rated value	77 A
• operational current at AC rated value	100 A
Supply voltage	
supply voltage at AC	400 V
value range of the supply voltage frequency	50/60 Hz
Protection class	
protection class IP	IP20 with connected conductors, IP40 in the area of the handle with distribution cover
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	10 kA
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	8 W
suitability for operation	Infrastructure / Industry
Product details	

product feature touch protection	Yes
product component	
• tunnel terminals top	Yes
• tunnel terminals bottom	Yes
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
<b>Connections</b>	
connectable conductor cross-section solid	
• minimum	25 mm <sup>2</sup>
• maximum	50 mm <sup>2</sup>
connectable conductor cross-section stranded	
• minimum	25 mm <sup>2</sup>
• maximum	50 mm <sup>2</sup>
connectable conductor cross-section finely stranded with core end processing	
• minimum	25 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
AWG number as coded connectable conductor cross section	
• minimum	3
• maximum	1
tightening torque [lbf-in] with screw-type terminals	
• minimum	22.1 lbf-in
• maximum	31 lbf-in
tightening torque with screw-type terminals	
• minimum	2.5 N·m
• maximum	3.5 N·m
position of power supply cord	Any
<b>Mechanical Design</b>	
height	90 mm
width	27 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1.5
fastening method	DIN rail
mounting position	any
Net Weight	260.7 g
<b>Environmental conditions</b>	
influence of the surrounding temperature	Max. 95% rel. humidity
shock resistance according to IEC 60068-2-27	150m/s <sup>2</sup> at 11ms half-sine
vibration resistance according to IEC 60068-2-6	50m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C
<b>Environmental footprint</b>	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	54.3 kg
global warming potential [CO2 eq] during manufacturing	1.06 kg
global warming potential [CO2 eq] during operation	53.3 kg
global warming potential [CO2 eq] after end of life	-0.046 kg
<b>Approvals Certificates</b>	
<b>General Product Approval</b>	



General Product Approval

Maritime application

other

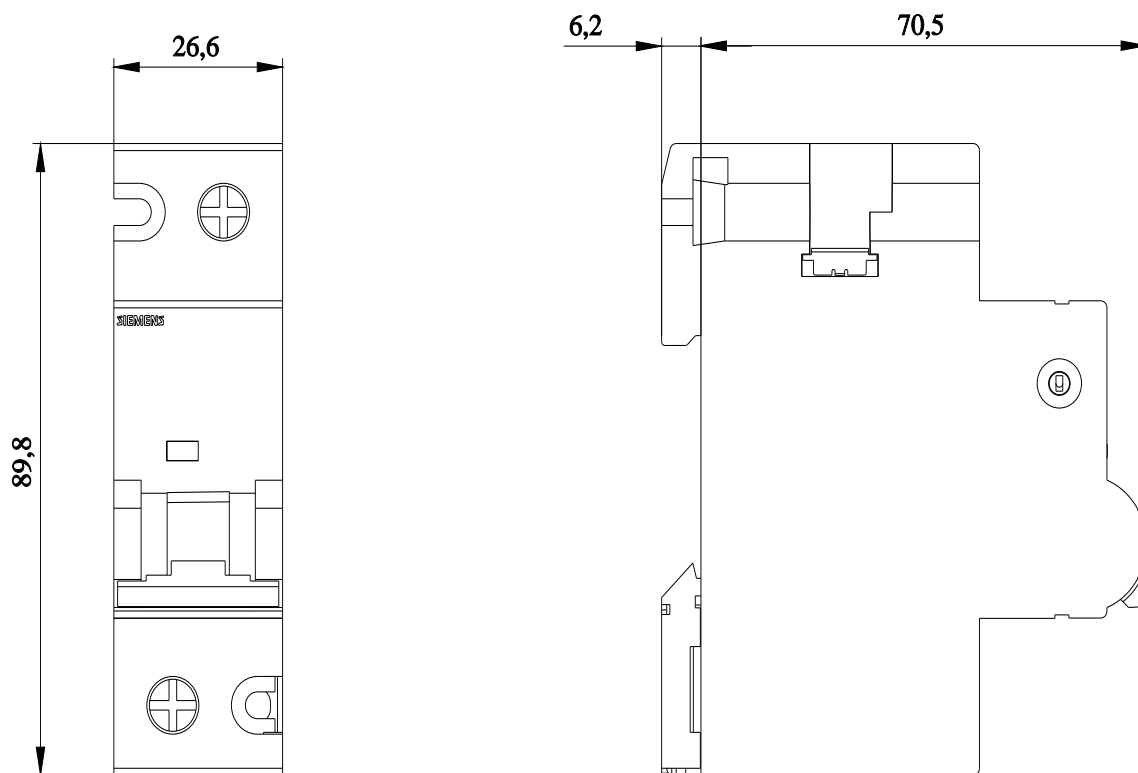
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Railway

Dangerous goods

Environment

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