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Data sheet 5SP4280-8



Figure similar

Miniature circuit breaker 400 V 10kA, 2-pole, D, 80 A, D=70 mm

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	2
design of pole	2P
tripping characteristic class	D
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 multi-phase operation at AC rated value	440 V
● **operational current**	
— at 30 °C rated value	80 A
— at 40 °C rated value	76 A
— at 50 °C rated value	71.6 A
— at 60 °C rated value	67.2 A
● **operational current at AC rated value**	80 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	7 W
suitability for operation	Infrastructure / Industry
Product details	
product feature touch protection	Yes

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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
Connections	
connectable conductor cross-section solid	
● minimum	25 mm²
● maximum	50 mm²
connectable conductor cross-section stranded	
● minimum	25 mm²
● maximum	50 mm²
connectable conductor cross-section finely stranded with core end processing	
● minimum	25 mm²
● maximum	35 mm²
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
Mechanical Design	
height	90 mm
width	54 mm
depth	76 mm
installation depth	70 mm
number of modular width units	3
fastening method	DIN rail
mounting position	any
Net Weight	515 g
Environmental conditions	
influence of the surrounding temperature	Max. 95% rel. humidity
shock resistance according to IEC 60068-2-27	150m/s² at 11ms half-sine
vibration resistance according to IEC 60068-2-6	50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
ambient temperature during storage	
● minimum	-40 °C
● maximum	75 °C
Approvals Certificates	
General Product Approval	

General Product Approval	**Maritime application**	**other**

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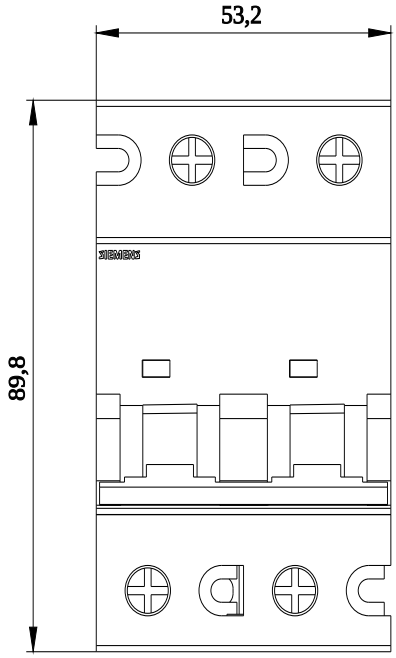
Miscellaneous

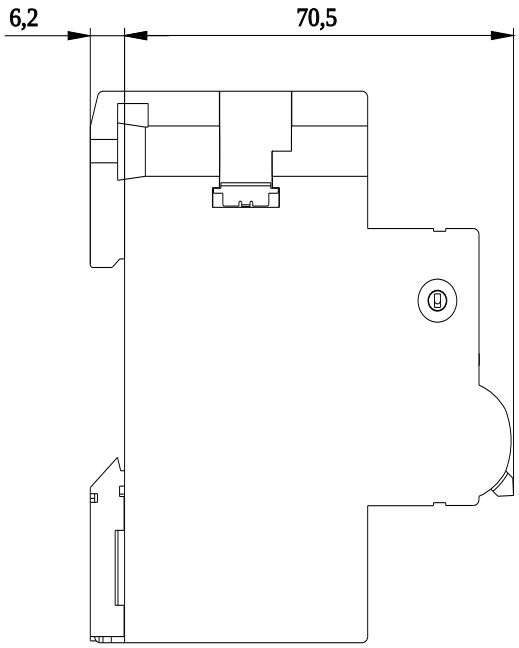
Confirmation

Railway	Dangerous goods	Environment		
Confirmation	Transport Information		Environmental Con-firmations	Environmental Con-firmations

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=5SP4280-8
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SP4280-8
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4280-8
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications





last modified: 7/22/2025

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