

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

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
design of the product	5SP Miniature circuit breakers
General technical data	
number of poles	1
design of pole	1P
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 single-phase operation at AC rated value	250 V
• with multi-phase operation at AC rated value	440 V
Supply voltage	
supply voltage at AC rated value	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
Switching capacity	
switching capacity current	
• according to EN 60898 rated value	10 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	8 W
Product details	
product component	
• tunnel terminals top	Yes
• tunnel terminals bottom	Yes
product feature	
• properties for main switches in accordance with EN 60204-1	Yes
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes
Connections	
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	

<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>3</p> <p>1</p>
tightening torque [lbf-in] with screw-type terminals	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>22.1 lbf-in</p> <p>31 lbf-in</p>
tightening torque with screw-type terminals	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>2.5 N·m</p> <p>3.5 N·m</p>
position of power supply cord	Any

### Mechanical Design

height	90 mm
width	27 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1.5
fastening method	DIN rail and screw fixing
mounting position	any
net weight	266 g

### Environmental conditions

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	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>-40 °C</p> <p>75 °C</p>

### General Product Approval



[Confirmation](#)



Declaration of Conformity	Test Certificates	Marine / Shipping	other
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[Special Test Certificate](#)



[Miscellaneous](#)

other	Railway	Dangerous Good	Environment
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[Confirmation](#)

[Confirmation](#)

[Transport Information](#)

[Environmental Confirmations](#)

### Further information

Siemens has decided to exit the Russian market (see here).  
<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SP4191-8>

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

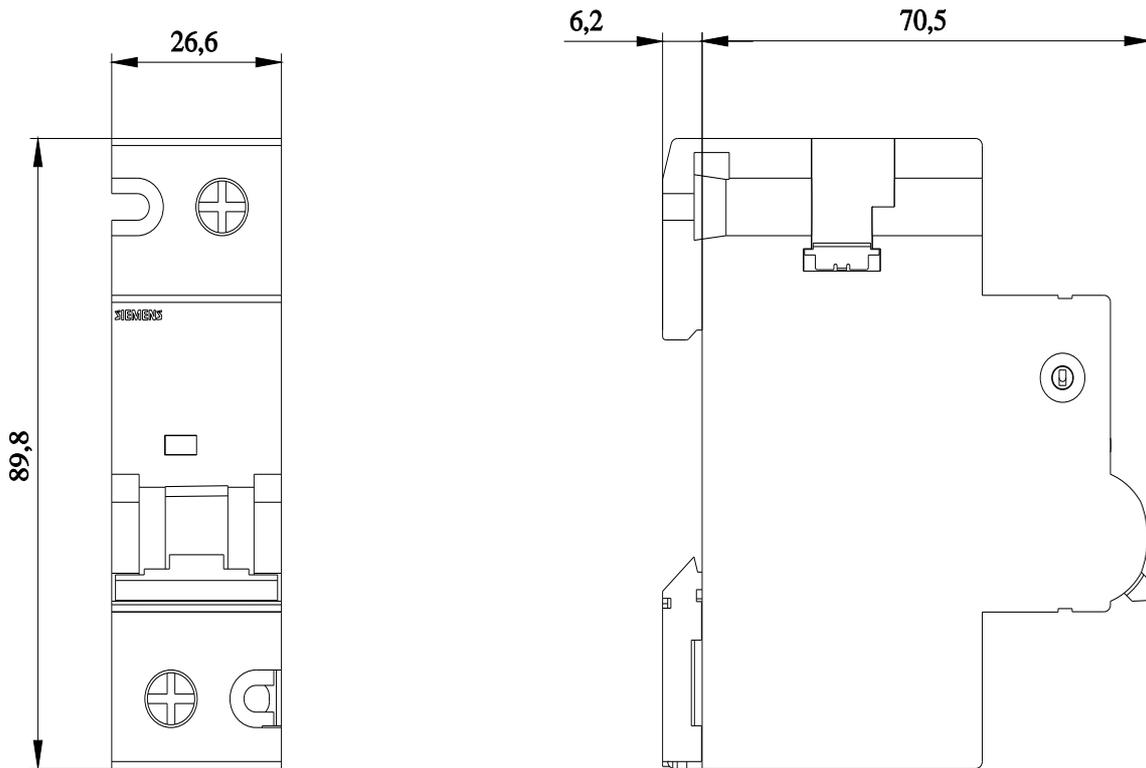
<https://support.industry.siemens.com/cs/ww/en/ps/5SP4191-8>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SP4191-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4191-8)

CAx-Online-Generator

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



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