## SIEMENS

## Data sheet

## 5SJ4220-8HG42



Circuit breaker 10kA, 2-pole, D, 20A according to UL 489-480Y/277V

Model			
product brand name	SENTRON		
product designation	Miniature circuit breakers		
design of the product	Miniature circuit-breaker 5SJ4		
General technical data			
number of poles	2		
design of pole	2P		
tripping characteristic class	D		
mechanical service life (operating cycles) typical	10 000		
installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)		
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	F		
overvoltage category	3		
degree of pollution	3		
Voltage			
insulation voltage (Ui) at AC rated value	440 V		
Supply voltage			
supply voltage			
<ul> <li>at AC rated value</li> </ul>	400 V		
<ul> <li>at DC rated value</li> </ul>	60 V		
value range of the supply voltage frequency	50/60 Hz		
operating voltage			
<ul> <li>at AC according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>	277 V		
<ul> <li>at DC rated value maximum</li> </ul>	60 V		
<ul> <li>at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>	60 V		
<ul> <li>at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>	125 V		
supply voltage frequency rated value	50 Hz		
Protection class			
protection class IP	IP20, with connected conductors, IP 40 in the handle range		
Switching capacity			
switching capacity current			
<ul> <li>according to EN 60898 rated value</li> </ul>	10 kA		
<ul> <li>according to IEC 60947-2 rated value</li> </ul>	15 kA		
Dissipation			
power loss [W] for rated value of the current at AC in hot operating state per pole	2.4 W		
Current			
operational current			

<ul> <li>at 30 °C rated value</li> </ul>	20 A		
<ul> <li>at 40 °C rated value</li> </ul>	20 A		
<ul> <li>at 45 °C rated value</li> </ul>	19.4 A		
<ul> <li>at 50 °C rated value</li> </ul>	19 A		
<ul> <li>at 55 °C rated value</li> </ul>	18.5 A		
<ul> <li>at 60 °C rated value</li> </ul>	18 A		
at AC rated value	20 A		
Main circuit			
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	480/277		
suitability for operation	Mechanical engineering / industry		
Product details			
product component			
tunnel terminals top	No		
tunnel terminals bottom	No		
<ul> <li>combined terminal top</li> </ul>	Yes		
<ul> <li>combined terminal bottom</li> </ul>	Yes		
<ul> <li>neutral conductor switching</li> </ul>	No		
product feature			
halogen-free	Yes		
• sealable	Yes		
• silicon-free	Yes		
product extension installable supplementary devices	Yes		
Product function			
product function note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in		
Short circuit			
short-circuit current breaking capacity (Icn) at AC	10 kA		
according to UL 1077 and CSA C22.2 No.235			
Connections			
connectable conductor cross-section finely stranded with			
core end processing			
• minimum	0.75 mm <sup>2</sup>		
• maximum	25 mm²		
tightening torque with screw-type terminals maximum	3.5 N·m		
position of power supply cord	Any		
Mechanical Design			
height	121 mm		
width	36 mm		
depth	70 mm		
installation depth	70 mm		
number of modular width units	2		
fastening method	on standard mounting rail		
mounting position	any		
net weight	342 g		
Environmental conditions			
vibration resistance	50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)		
vibration resistance according to IEC 60068-2-6	±1 mm at 5 to 25 Hz; 50 m/s <sup>2</sup> at 25 to 150 Hz		
ambient temperature during operation			
• minimum	55 °C		
• maximum	-25 °C		
ambient temperature during operation	max. 95% humidity		
ambient temperature during storage			
• minimum	-40 °C		
• maximum	75 °C		
General Product Approval	Declaration of Conformity		
Confirmation	rnr IIK cc		
(CCC) (UL)			

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Test Certificates	other			
Special Test Certific- ate	Miscellaneous	<u>Confirmation</u>	Environmental Con- firmations	

**Further information** 

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=5SJ4220-8HG42

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4220-8HG42

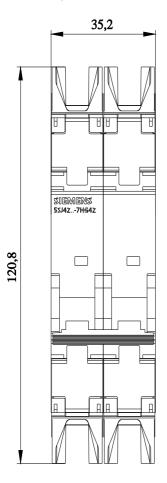
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4220-8HG42

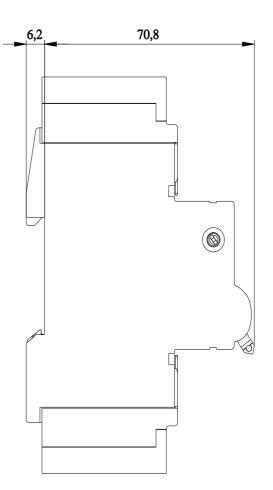
**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications





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