

## Data sheet

## 5SJ4218-7HG42



Circuit breaker 10kA, 2-pole, C, 15A according to UL 489-480Y/277V

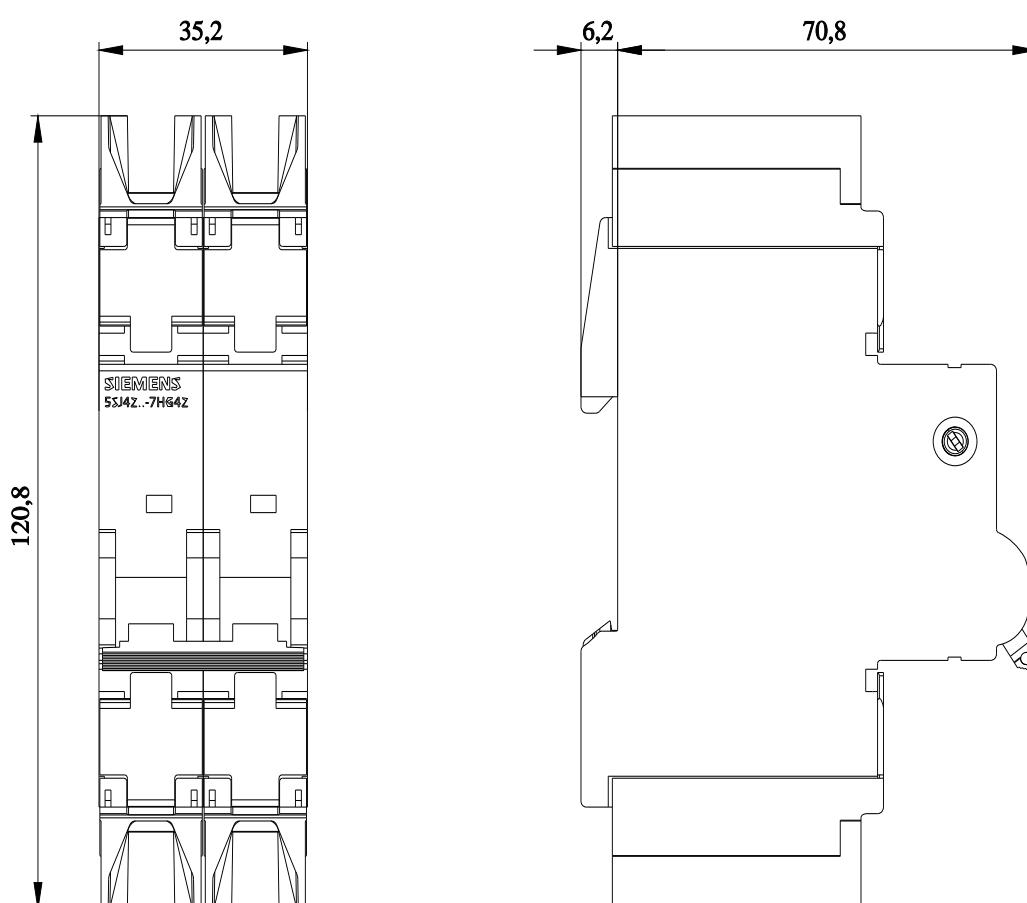
Figure similar

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	C
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
<ul style="list-style-type: none"> <li>• operational current           <ul style="list-style-type: none"> <li>— at 30 °C rated value</li> <li>— at 40 °C rated value</li> <li>— at 50 °C rated value</li> <li>— at 55 °C rated value</li> <li>— at 60 °C rated value</li> </ul> </li> </ul>	
• operational current at AC rated value	15 A
• at 30 °C rated value	15 A
• at 40 °C rated value	15 A
• at 50 °C rated value	14.1 A
• at 55 °C rated value	13.6 A
• at 60 °C rated value	13.2 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 AC according to UL 489 and CSA C22.2 No. 5-02 maximum	277 V
• at DC rated value maximum	60 V
• at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum	60 V
• at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum	125 V
supply voltage frequency rated value	50 Hz
Protection class	

<b>protection class IP</b>	IP 0 in the handle range
<b>Breaking Capacity</b>	
<b>switching capacity current</b>	
• according to EN 60898 rated value	10 kA
• according to IEC 60947-2 rated value	15 kA
<b>Dissipation</b>	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.9 W
<b>Main circuit</b>	
<b>type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02</b>	480/277
<b>suitability for operation</b>	Infrastructure / Industry
<b>Product details</b>	
<b>product feature touch protection</b>	Yes
<b>product component</b>	
• tunnel terminals top	No
• tunnel terminals bottom	No
• combined terminal top	Yes
• combined terminal bottom	Yes
• neutral conductor switching	No
<b>product feature halogen-free</b>	Yes
<b>product feature sealable</b>	Yes
<b>product feature silicon-free</b>	Yes
<b>product extension installable supplementary devices</b>	Yes
<b>Product function</b>	
<b>set values setting current (li) for I-tripping</b>	8,5
<b>reference value setting current (li) for I-tripping</b>	x In
<b>product function note</b>	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in
<b>Short circuit</b>	
short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235	10 kA
<b>Connections</b>	
<b>connectable conductor cross-section finely stranded with core end processing</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
<b>tightening torque with screw-type terminals maximum</b>	3.5 N·m
<b>position of power supply cord</b>	Any
<b>Mechanical Design</b>	
<b>height</b>	121 mm
<b>width</b>	36 mm
<b>depth</b>	70 mm
<b>installation depth</b>	70 mm
<b>number of modular width units</b>	2
<b>fastening method</b>	on standard mounting rail
<b>mounting position</b>	any
<b>Net Weight</b>	331 g
<b>Environmental conditions</b>	
<b>standard</b>	IEC / EN 60947-2 / UL 489
<b>vibration resistance</b>	50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
<b>vibration resistance according to IEC 60068-2-6</b>	±1 mm at 5 to 25 Hz; 50 m/s <sup>2</sup> at 25 to 150 Hz
<b>ambient temperature during operation</b>	
• minimum	-25 °C
• maximum	55 °C
<b>ambient temperature during operation</b>	max. 95% humidity
<b>ambient temperature during storage</b>	
• minimum	-40 °C
• maximum	75 °C
<b>Approvals Certificates</b>	

[Environmental Confirmations](#)[Environmental Confirmations](#)[Confirmation](#)

EG-Konf.

[Special Test Certificate](#)[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=5SJ4218-7HG42>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4218-7HG42>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4218-7HG42](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4218-7HG42)**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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