



Miniature circuit breaker 240 V 10kA, 2-pole, D, 45 A, D=70 mm according to UL 489

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	
• at AC rated value	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	240 V
• at DC rated value maximum	60 V
• at DC single 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	
protection class IP	IP20, with connected conductors, IP 40 in the handle range
Switching capacity	
switching capacity current	
• according to EN 60898 rated value	10 kA
• according to IEC 60947-2 rated value	15 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	5.7 W
Main circuit	
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	240

suitability for operation	Mechanical engineering / industry	
Product details		
product component		
<ul style="list-style-type: none"><li>tunnel terminals top</li></ul>	No	
<ul style="list-style-type: none"><li>tunnel terminals bottom</li></ul>	No	
<ul style="list-style-type: none"><li>combined terminal top</li></ul>	Yes	
<ul style="list-style-type: none"><li>combined terminal bottom</li></ul>	Yes	
<ul style="list-style-type: none"><li>neutral conductor switching</li></ul>	No	
product feature		
<ul style="list-style-type: none"><li>halogen-free</li></ul>	Yes	
<ul style="list-style-type: none"><li>sealable</li></ul>	Yes	
<ul style="list-style-type: none"><li>silicon-free</li></ul>	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 according to UL 1077 and CSA C22.2 No.235	10 kA	
Connections		
connectable conductor cross-section finely stranded with core end processing		
<ul style="list-style-type: none"><li>minimum</li></ul>	0.75 mm²	
<ul style="list-style-type: none"><li>maximum</li></ul>	25 mm²	
tightening torque with screw-type terminals maximum	3.5 N·m	
position of power supply cord	Any	
Mechanical Design		
height	110 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/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)	
vibration resistance according to IEC 60068-2-6	±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz	
ambient temperature during operation		
<ul style="list-style-type: none"><li>minimum</li></ul>	55 °C	
<ul style="list-style-type: none"><li>maximum</li></ul>	-25 °C	
ambient temperature during operation	max. 95% humidity	
ambient temperature during storage		
<ul style="list-style-type: none"><li>minimum</li></ul>	-40 °C	
<ul style="list-style-type: none"><li>maximum</li></ul>	75 °C	
General Product Approval		Declaration of Conformity

[Confirmation](#)



Test Certificates	other	Environment
-------------------	-------	-------------

[Miscellaneous](#)

[Special Test Certificate](#)

[Confirmation](#)

[Miscellaneous](#)

[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=5SJ4245-8HG41>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4245-8HG41>

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

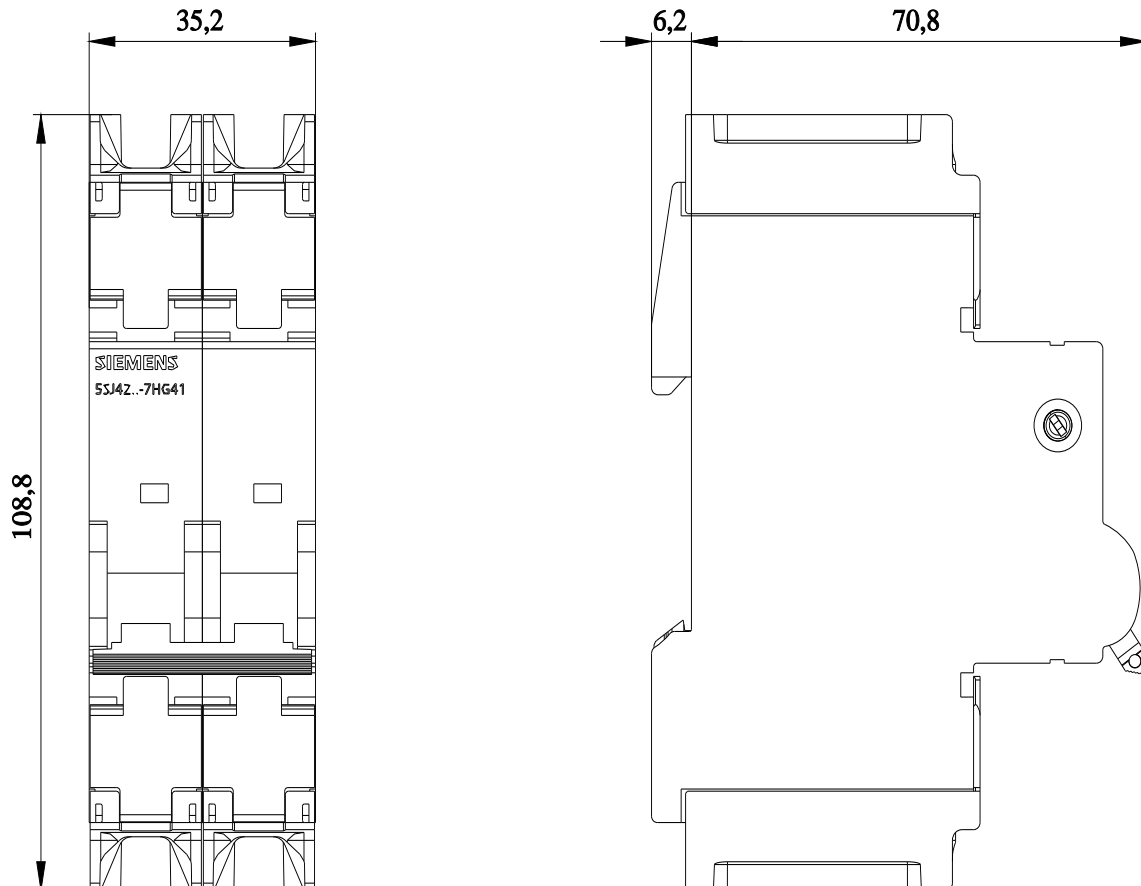
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4245-8HG41](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4245-8HG41)

**CAX-Online-Generator**

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

**Tender specifications**

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



last modified:

2/3/2023

