## SIEMENS

## Data sheet

## 5SJ4225-7HG41



Miniature circuit breaker 240 V 14kA, 2-pole, C, 25A, 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	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	
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>	240 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	2.9 W	
Current		
operational current		

<ul> <li>at 30 °C rated value</li> </ul>	25 A
<ul> <li>at 40 °C rated value</li> </ul>	25 A
<ul> <li>at 45 °C rated value</li> </ul>	24.3 A
<ul> <li>at 50 °C rated value</li> </ul>	23.8 A
<ul> <li>at 55 °C rated value</li> </ul>	23.1 A
• at 60 °C rated value	22.5 A
• at AC rated value	25 A
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	
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	14 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 mm <sup>2</sup>
tightening torque with screw-type terminals maximum	3.5 N·m
position of power supply cord	Any
Mechanical Design	440
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 net weight	any 332 a
Environmental conditions	332 g
vibration resistance	$50 \text{ m/s}^2$ at 25 to 150 Hz and $60 \text{ m/s}^2$ at 25 Hz (4ccc)
vibration resistance vibration resistance	50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s <sup>2</sup> at 25 to 150 Hz
ambient temperature during operation	11 mm at 3 to 23 m2, 30 m/s at 23 to 130 m2
minimum	55 °C
• maximum	-25 °C
ambient temperature during operation	max. 95% humidity
ambient temperature during storage	Have 0070 Humany
minimum	-40 °C
• maximum	
General Product Approval	Declaration of Conformity
<u>Confirmation</u>	
(CCC) (VL)	
01	

Test Certificates
-------------------

**Miscellaneous** 

other

Confirmation I

Miscellaneous

Environmental Confirmations

Further information

Information on the packaging

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

Special Test Certific-

ate

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=5SJ4225-7HG41

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4225-7HG41

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

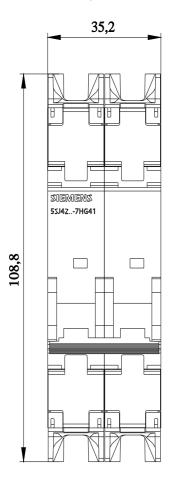
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4225-7HG41

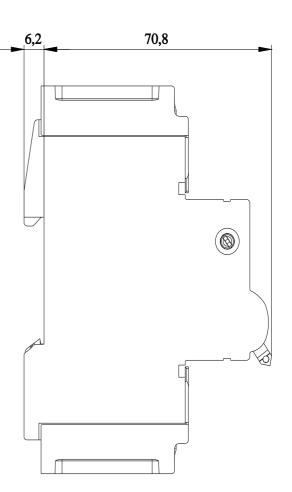
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





Ø