SIEMENS

Data sheet 5SJ4205-7HG42

Circuit breaker 10kA, 2-pole, C, 0.5 A 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
Number of poles / Note	2P
Tripping characteristic class	C
Installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
circuit-breaker / Design	5SJ4
Mechanical service life (switching cycles) / typical	20 000
Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	F
Overvoltage category	3

Supply voltage	
Type of voltage	AC/DC
Current / at AC / rated value	0.5 A
Supply voltage / at AC / rated value	400 V

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Operating voltage	
• at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	277 V
• at DC / rated value / maximum	60 V
• at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum	60 V
• at DC / 2-channel / acc. 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	
• acc. to EN 60898 / rated value	10 kA
• acc. 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	1.2 W

Current

Tripping residual / rated value / derated current / at 40 Cel	0.5 A

Main circuit

Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02	480/277
Suitability for operation	Mechanical engineering / industry

Product details

Product function / neutral conductor switching	No
Product feature / Touch protection	Yes
Product component	
• Tunnel terminals top	No
• Tunnel terminals bottom	No
• combined terminal top	Yes
• combined terminal bottom	Yes
Product feature	
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes

Product function

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Product function / Note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in

Short circuit

Breaking capacity short-circuit current (Icn) / at AC / acc. to UL 1077 and CSA C22.2 No.235	10 kA

Connections

Connectable conductor cross-section / finely stranded / with core end processing	
• minimum	1.5 mm²
• maximum	25 mm²
Position / of power supply cord	Any

Mechanical Design

Height	121 mm
Width	36 mm
Depth	76 mm
Installation depth	70 mm
Number of width units	2
Mounting type	on standard mounting rail
Mounting position	any
Net weight	345 g

Environmental conditions

Influence of the surrounding temperature	max. 95% humidity
Vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
Vibration resistance / acc. to IEC 60068-2-6	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)

Certificates

Reference code	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

General Product Approval	Declaration of Conformity	Test Certificates
CCC, UL, VDE	EG-Konf.	Special Test Certificate

Further information

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=5SJ4205-7HG42

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SJ4205-7HG42

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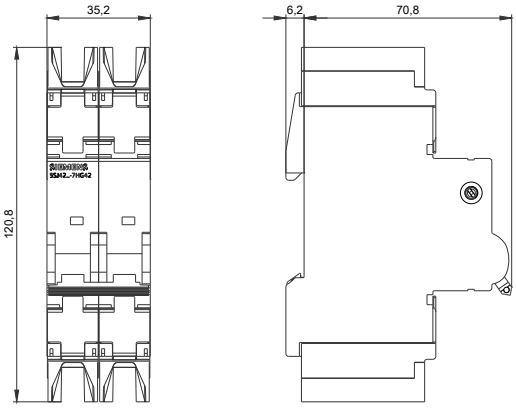
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4205-7HG42

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://www.siemens.com/specifications



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