SIEMENS

Data sheet

5SJ4214-7HG42



Circuit breaker 10kA, 2-pole, C, 0.3 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		
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			
 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 	277 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	1.2 W		
Current			
operational current			

vibration resistance according to IEC 60068-2-6 ambient temperature during operation • minimum • maximum ambient temperature during operation ambient temperature during storage • minimum • maximum General Product Approval	±1 mm at 5 to 25 Hz; 50 m/s ² at 25 to 150 Hz 55 °C -25 °C max. 95% humidity -40 °C 75 °C Declaration of Conformity
 ambient temperature during operation minimum maximum ambient temperature during operation ambient temperature during storage minimum maximum 	55 °C -25 °C max. 95% humidity -40 °C 75 °C
 ambient temperature during operation minimum maximum ambient temperature during operation ambient temperature during storage 	55 °C -25 °C max. 95% humidity
ambient temperature during operation minimum maximum 	55 °C -25 °C
ambient temperature during operationminimum	55 °C
ambient temperature during operation	
VIDITATION RESISTANCE ACCORDING TO IEC 60068-2-6	±1 mm at 5 to 25 Hz; 50 m/s ⁻ at 25 to 150 Hz
vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
net weight Environmental conditions	349 g
mounting position	any 240 a
fastening method	on standard mounting rail
number of modular width units	2
installation depth	70 mm
width depth	36 mm 70 mm
height	121 mm
Mechanical Design	404 mm
position of power supply cord	Any
tightening torque with screw-type terminals maximum	3.5 N·m
• maximum	25 mm ²
• minimum	0.75 mm ²
connectable conductor cross-section finely stranded with core end processing	
Connections	
according to UL 1077 and CSA C22.2 No.235	
Short circuit short-circuit current breaking capacity (Icn) at AC	10 kA
product function note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in
Product function	Terminal tightoning tergue for Cu. 60/75°C: 2 5Nex (2416 in
product extension installable supplementary devices	Yes
silicon-free product extension installable supplementary devices	Yes
• sealable	Yes
halogen-free	Yes
product feature	
neutral conductor switching	No
combined terminal top	Yes
combined terminals bottom	Yes
 tunnel terminals top tunnel terminals bottom 	No No
product component	
Product details	
suitability for operation	Mechanical engineering / industry
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	480/277
Main circuit	400/077
at AC rated value	0.3 A
• at 60 °C rated value	0.25 A
• at 55 °C rated value	0.26 A
• at 50 °C rated value	0.28 A
• at 45 °C rated value	0.29 A
• at 40 °C rated value	0.3 A
 at 30 °C rated value 	0.3 A

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Declaration of Conformity	Test Certificates	other			
CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	Environmental Con- firmations	<u>Miscellaneous</u>	

Further	intorma	ation

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=5SJ4214-7HG42

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4214-7HG42

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

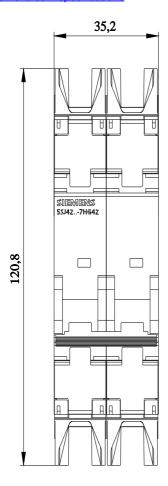
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4214-7HG42

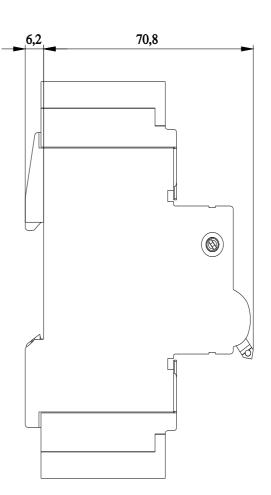
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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