SIEMENS

Data sheet

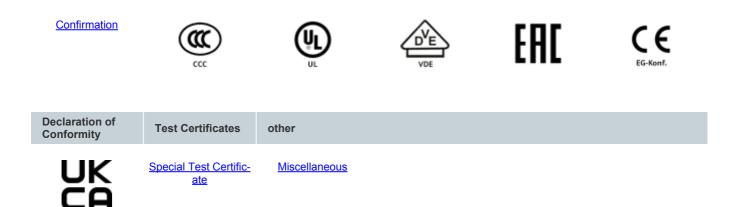
5SJ4201-7HG42



Circuit breaker 10kA, 2-pole, C, 1A 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	
tripping characteristic class	С	
mechanical service life (switching 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		
type of voltage / of the operating voltage	AC/DC	
insulation voltage (Ui) / at AC / rated value	440 V	
Supply voltage		
supply voltage / at AC / rated value	400 V	
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	1.7 W	
Current		
operational current		
• at 30 °C / rated value	1 A	
• at 40 °C / rated value	1 A	

	0.07.4		
• at 45 °C / rated value	0.97 A		
 at 50 °C / rated value 	0.9 A		
• at 55 °C / rated value	0.9 A		
 at 60 °C / rated value 	0.88 A		
at AC / rated value	1 A		
Main circuit			
type of voltage supply / at AC / according to UL 489 and CSA C22.2 No. 5-02	480/277		
suitability for operation	Mechanical engineering / industry		
Product details			
product component / 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 / installable / supplementary devices	Yes		
Product function			
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 /	10 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 mm²		
• maximum	25 mm²		
tightening torque / with screw-type terminals / maximum	3.5 N·m		
position / of power supply cord	Any		
Mechanical Design			
height	121 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	340 g		
Environmental conditions			
vibration resistance	50 m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)		
ambient temperature / during operation			
minimum	55 °C		
• maximum	-25 °C		
ambient temperature / during storage			
minimum	-40 °C		
• maximum	75 °C		
Certificates			
reference code			
according to EN 61346-2	F		
according to EC 81346-2	F		
		Declaration of	
General Product Approval		Conformity	
		<i>y</i> ee.	



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=5SJ4201-7HG42 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SJ4201-7HG42 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4201-7HG42 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications

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