SIEMENS

Data sheet

5SJ4111-8HG42



Circuit breaker 10kA, 1-pole, D, 5 A according to UL 489-277V

product brand name SENTRON product designation Miniature circuit breakers design of the product Miniature circuit-breaker SS.I4 Ceneral technical data 1 number of poles 1 tripping characteristic class D 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 3 according to IEC 204-2 / according to IEC 750 3 overvoltage category 3 degree of pollution 3 Voltage Voltage supply voltage / of the operating voltage AC/DC insulation voltage (U) / at AC / rated value 440 V supply voltage 4AC / according to UL 489 and CSA C22.2 No.5-02 / maximum e at AC / according to UL 489 and CSA C22.2 No.5-02 / maximum 60 V e at DC / zinde value / maximum 60 V e at DC / zinde value / maximum 60 V e at DC / zindawinum 125 V supply voltage frequency / rated value 50 Hz	Model			
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supply voltage / at AC / rated value 400 V operating voltage 400 V operating voltage 277 V 02 / maximum 60 V • at DC / rated value / maximum 60 V • at DC / rated value / maximum 60 V • at DC / rated value / maximum 60 V • at DC / rated value / maximum 60 V • at DC / z-channel / according to UL 489 and CSA 22.2 No. 5-02 / maximum • at DC / 2-channel / according to UL 489 and CSA 125 V C22.2 No. 5-02 / maximum 50 Hz Protection class 125 V grotection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity 10 kA • according to EN 60898 / rated value 10 kA • according to IEC 60947-2 / rated value 15 kA Dissipation 2.5 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 2.5 W current • at 30 °C / rated value 5 A	insulation voltage (Ui) / at AC / rated value	440 V		
operating voltage at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum at DC / rated value / maximum at DC / rated value / maximum at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 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 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 ht operating state / per pole Current at 30 °C / rated value 5 A 	Supply voltage			
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02 / maximum 60 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 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 2.5 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 2.5 W current • at 30 °C / rated value 5 A	operating voltage			
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CSA C22.2 No. 5-02 / maximum item of the second	 at DC / rated value / maximum 	60 V		
C22.2 No. 5-02 / maximum 50 Hz supply voltage frequency / rated value 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range Switching capacity current • according to EN 60898 / rated value • according to EN 60898 / rated value 10 kA • according to IEC 60947-2 / rated value 15 kA Dissipation 2.5 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 2.5 W Operational current • at 30 °C / rated value 5 A		60 V		
Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity 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 Current • at 30 °C / rated value 5 A		125 V		
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 2.5 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 2.5 W Current • at 30 °C / rated value 5 A	supply voltage frequency / rated value	50 Hz		
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power loss [W] / for rated value of the current / at AC / in 2.5 W hot operating state / per pole 2.5 W Current operational current • at 30 °C / rated value 5 A	 according to IEC 60947-2 / rated value 	15 kA		
hot operating state / per pole Current operational current • at 30 °C / rated value 5 A	Dissipation			
operational current • at 30 °C / rated value 5 A		2.5 W		
• at 30 °C / rated value 5 A	Current			
	operational current			
at 40 °C / rated value 5 A	• at 30 °C / rated value	5 A		
	• at 40 °C / rated value	5 A		

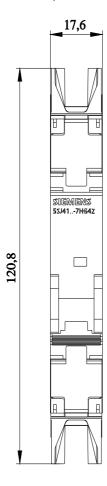
	4.0.4	
• at 45 °C / rated value	4.9 A	
• at 50 °C / rated value	4.8 A	
• at 55 °C / rated value	4.6 A	
 at 60 °C / rated value 	4.5 A	
at AC / rated value	5 A	
Main circuit		
type of voltage supply / at AC / according to UL 489 and CSA C22.2 No. 5-02	480/277	
suitability for operation	Mechanical engineering / 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/	31lh in
Short circuit		5115.111
	10 kA	
breaking capacity short-circuit current (Icn) / at AC / according to UL 1077 and CSA C22.2 No.235	IU KA	
Connections		
connectable conductor cross-section / finely stranded / with core end processing		
• minimum	0.75 mm ²	
maximum	25 mm ²	
tightening torque / with screw-type terminals / maximum	3.5 N·m	
position / of power supply cord	Any	
Mechanical Design		
height	121 mm	
width	18 mm	
depth	70 mm	
installation depth	70 mm	
number of modular width units	1	
fastening method	on standard mounting rail	
mounting position	any	
net weight	171 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 IEC 81346-2	F	
General Product Approval		Declaration of Conformity
		Somorning

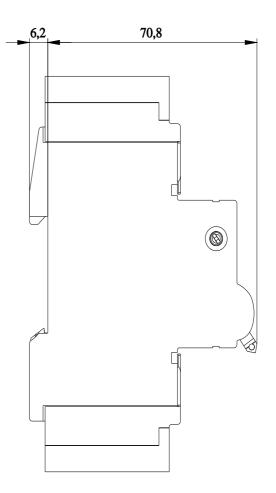
	<u>Confirmation</u>		UDE VDE	EHC	UK CA
Declaration of Conformity	Test Certificates	other			
C E EG-Konf	Special Test Certific- ate	Miscellaneous			

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=5SJ4111-8HG42 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SJ4111-8HG42 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4111-8HG42 CAx-Online-Generator http://www.siemens.com/cax Tender specifications

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