SIEMENS

Data sheet

5SJ4118-6HG40



Miniature circuit breaker 240 V 14kA, 1-pole, B, 15 A, D=70 mm according to UL 489, equal polarity

product brand name SENTRON product designation Miniature circuit breakers design of the product Miniature circuit-breaker SSI4 Ceneral technical data 1 number of poles 1 titpping characteristic class B 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 EC 204.2 / according to DIN 40719 extended 3 degree of pollution 3 Voltage 400 V type of voltage (UI) / at AC / rated value 400 V Supply voltage at AC / rated value e at DC / rated value 400 V operating voltage at DC / rated value e at DC / rated value 50 V cSaz 2No. 5-02 / maximum 60 V cSaZ 22: No. 5-02 / maximum 60 V cSaZ 22: No. 5-02 / maximum 60 V cSaz 22: No. 5-02 / maximum 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handl	Model		
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insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 400 V operating voltage 400 V • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 120 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 supply voltage frequency / rated value 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity current 10 kA • according to EC 60947-2 / rated value 10 kA • according to EC 60947-2 / rated value 12 kA Dissipation 2 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 2 W operating loss for rated value 15 A • at 40 °C / rated value 15 A	Voltage		
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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 60 V at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum supply voltage frequency / rated value 50 Hz Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current	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 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 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 2 W current at 30 °C / rated value 15 A • at 40 °C / rated value 15 A	operating voltage		
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CSA 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 IP20, with connected conductors, IP 40 in the handle range Switching capacity current according to EN 60898 / rated value to kA according to IEC 60947-2 / rated value to kA power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 2 W Current at 30 °C / rated value to A at 40 °C / rated value to A at 40 °C / rated value 	 at DC / rated value / maximum 	60 V	
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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 2 W Current operational current • at 30 °C / rated value 15 A • at 40 °C / rated value 15 A	Protection class		
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power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 2 W Current 0perational current • at 30 °C / rated value 15 A • at 40 °C / rated value 15 A	 according to IEC 60947-2 / rated value 	15 kA	
hot operating state / per pole Current operational current • at 30 °C / rated value • at 40 °C / rated value 15 A	Dissipation		
operational current 15 A • at 40 °C / rated value 15 A		2 W	
• at 30 °C / rated value 15 A 15 A 15 A	Current		
• at 40 °C / rated value 15 A	operational current		
	• at 30 °C / rated value	15 A	
• at 45 °C / rated value 14.6 A	• at 40 °C / rated value	15 A	
	• at 45 °C / rated value	14.6 A	

• at 50 °C / rated value	14.1 A
• at 55 °C / rated value	13.6 A
• at 60 °C / rated value	13.2 A
at AC / rated value	15 A
Main circuit	
type of voltage supply / at AC / according to UL 489 and CSA C22.2 No. 5-02	240/120
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 / according to UL 1077 and CSA C22.2 No.235	14 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	90 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	167 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



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=5SJ4118-6HG40 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SJ4118-6HG40 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4118-6HG40 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications

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