## **SIEMENS**

Data sheet 5SJ4111-7HG40



Miniature circuit breaker 240 V 14kA, 1-pole, C, 5A, D=70 mm according to UL 489, equal polarity

product brand name product design attion design of the product  General technical data number of poles tripping characteristic class mechanical service life (switching cycles) / typical installation environment regarding EMC reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 overvoltage category 3 degree of pollution  Voltage type of voltage / of the operating voltage insulation voltage (ui) / at AC / rated value  440 V  Supply voltage supply voltage supply voltage supply voltage / at AC / rated value  440 V  Supply voltage supply voltage / at AC / rated value  440 V  Supply voltage / at AC / rated value  440 V  Supply voltage / at AC / rated value / according to UL 489 and CSA C22.2 No. 5- 02 / maximum  4 at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  5 at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  5 at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / rated value  7 both dispersed frequency / rated value  7 both dispersed frequency / rated value  8 both dispersed frequency / rated value  7 both dispersed value / according to EN 60898 / rated value  10 kA  10 according to EN 60898 / rated value  11 kA  12 y y  12 y y  13 decreted value / according to UL 480 / according to UL 480 / according to EN 60898 / rated value  10 kA  11 x y  12 y y  12 y y  12 y y  13 decrete value / according to EN 60898 / rated value  10 kA  11 x y  12 y y  12 y y  13 x y  14 x y  15 x y  15 x y  16 x y  17 x y  18 x y  18 x y  19 x y  10 x	Model		
design of the product  General technical data  number of poles tripping characteristic class mechanical service life (switching cycles) / typical installation environment regarding EMC reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 overvoltage category degree of pollution  Voltage  type of voltage / of the operating voltage insulation voltage (Ui) / at AC / rated value 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 / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  **protection class protection class protection class protection class  protection class  protection class IP    IP20, with connected conductors, IP 40 in the handle range    Switching capacity   Switching capacity   Switching capacity current   **a according to IEC 60947-2 / rated value   **a cacording to IEC 60947-2 / rat	product brand name	SENTRON	
Cemeral technical data number of poles 1 tripping characteristic class C 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 DIM 40719 extended according to IEC 204-2 / according to IEC 750 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 / at AC / rated value 440 V  supply voltage / at AC / rated value 400 V operating voltage • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 60 V • at DC / single channel / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 60 V  eat DC / single channel / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 60 V  extra C22.2 No. 5-02 / maximum 60 V  extra C22.2 No. 5-02 / maximum 60 V  extra C3C C22.2 No. 5-02 / maximum 60 V  extra C3C C22.2 No. 5-02 / maximum 60 V  extra C4 C3C C3C C3C / C3	product designation	Miniature circuit breakers	
rumber of poles tipping characteristic class C mechanical service life (switching cycles) / typical installation environment regarding EMC reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 overvoltage category degree of pollution  Voltage type of voltage / of the operating voltage insulation voltage (UI) / at AC / rated value operating voltage at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum  • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  • at DC / single frequency / rated value  Protection class protection class IP  Switching capacity switching capacity switching capacity switching capacity switching capacity remains a cording to IEC 60947-2 / rated value  • according to IEC 60947-2 / ra	design of the product	Miniature circuit-breaker 5SJ4	
tripping characteristic class  mechanical service life (switching cycles) / typical installation environment regarding EMC reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750  overvoltage category degree of pollution  Voltage type of voltage / of the operating voltage type of voltage / of the operating voltage supply voltage / at AC / rated value  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  supply voltage frequency / rated value  Frotection class protection class IP  Switching capacity switching capacity current  according to IEC 80947-2 / rated value  10 kA  according to IEC 60947-2 / rated value  at OS (C2) rated value of the current / at AC / in hot operating state / per pole  Current  operational current  at 30 °C / rated value  5 A  at 30 °C / rated value  5 A  5 A	General technical data		
mechanical service life (switching cycles) / typical installation environment regarding EMC reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 overvoltage category degree of pollution 3  Voltage type of voltage / of the operating voltage insulation voltage / of the operating voltage yophy voltage supply voltage  • at AC / rated value / maximum • at DC / rated value / maximum • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum supply voltage frequency / rated value  Protection class protection class IP  Switching capacity switching capacity current • according to IEC 60947-2 / rated value  10 kA  installation environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (immunity to interference not applicable)  F  Sutable for environment B (im Sutable for environment B (im Sutable for en	number of poles	1	
installation environment regarding EMC reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750  overvoltage category degree of pollution  Voltage type of voltage / of the operating voltage insulation voltage (Ui) / at AC / rated value  Supply voltage supply voltage at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum at AC / 22.2 No. 5-02 / maximum  at AC / 22.2 No. 5-02 / maximum  Type of voltage frequency / rated value  Trotection class protection class IP  Switching capacity  switching capacity current according to IEC 60947-2 / rated value  Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  at 40 °C / rated value  5 A 5 A 5 A	tripping characteristic class	С	
reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750  overvoltage category degree of pollution 3  Voltage  type of voltage / of the operating voltage insulation voltage (Ui) / at AC / rated value  Supply voltage  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 • at DC / rated value / maximum • at DC / rated value / according to UL 489 and CSA C22.2 No. 5-02 / maximum  supply voltage frequency / rated value  50 Hz  Protection class  protection class IP  Switching capacity  switching capacity  switching capacity current • according to IEC 60947-2 / rated value  10 kA • according to IEC 60947-2 / rated value  51 KA  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current • at 30 °C / rated value • at 40 °C / rated value • 5 A • at 40 °C / rated value • 5 A	mechanical service life (switching cycles) / typical	10 000	
according to IEC 204-2 / according to IEC 750 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 • 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 IP  protection class IP    IP20, with connected conductors, IP 40 in the handle range	installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)	
degree of pollution  Voltage  type of voltage / of the operating voltage insulation voltage (Ui) / at AC / rated value  AC/DC insulation voltage (Ui) / at AC / rated value  440 V  Supply voltage supply voltage  • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum  • at DC / rated value / maximum  • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  supply voltage frequency / rated value  Protection class  protection class IP  Protection class IP  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  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current  • at 30 °C / rated value  • at 40 °C / rated value  5 A		F	
type of voltage / of the operating voltage type of voltage / of the operating voltage insulation voltage (Ui) / at AC / rated value  Supply voltage supply voltage / at AC / rated value 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 / rated value / maximum  supply voltage frequency / rated value  Frotection 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 • according to EN 60898 / rated value 10 kA • according to EC 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 • at 30 °C / rated value • at 40 °C / rated value  5 A	overvoltage category	3	
type of voltage / of the operating voltage insulation voltage (Ui) / at AC / rated value  440 V  Supply voltage supply voltage  • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum • at DC / rated value / maximum • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  supply voltage frequency / rated value  Frotection class  protection class IP  Switching capacity  switching capacity current • according to EN 60898 / rated value  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current • at 30 °C / rated value • at 0°C / rated value  5 A • at 40 °C / rated value  5 A	degree of pollution	3	
insulation voltage (Ui) / at AC / rated value  Supply voltage  supply voltage  • at AC / rated value  • 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  supply voltage frequency / rated value  • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  supply voltage frequency / rated value  Frotection class  protection class IP  Switching capacity  switching capacity current  • according to EN 60898 / rated value  • according to EN 60898 / rated value  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  • at 30 °C / rated value  • at 30 °C / rated value  • at 40 °C / rated value	Voltage		
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  • at DC / rated value / maximum  • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  supply voltage frequency / rated value  Frotection 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  • according to EN 60898 / rated value  10 kA  • according to EC 60947-2 / rated value  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current  • at 30 °C / rated value  • at 40 °C / rated value  5 A  • at 40 °C / rated value  5 A	type of voltage / of the operating voltage	AC/DC	
supply voltage / at AC / rated value  operating voltage  • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum  • at DC / rated value / maximum  • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  supply voltage frequency / rated value  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  • according to EC 60947-2 / rated value  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current  • at 30 °C / rated value  • at 40 °C / rated value  • at 40 °C / rated value  • at 40 °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 / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  supply voltage frequency / rated value  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  • according to IEC 60947-2 / rated value  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current  • at 30 °C / rated value  • at 40 °C / rated value  5 A  • at 40 °C / rated value  5 A	Supply voltage		
at AC / according to UL 489 and CSA C22.2 No. 5-02 / maximum  at DC / rated value / maximum  at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  supply voltage frequency / rated value  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  according to IEC 60947-2 / rated value  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current  at 30 °C / rated value  5 A  at 40 °C / rated value  5 A	supply voltage / at AC / rated value	400 V	
02 / maximum  • at DC / rated value / maximum  • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  supply voltage frequency / rated value  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  • according to IEC 60947-2 / rated value  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current  • at 30 °C / rated value  • at 40 °C / rated value  5 A  • at 40 °C / rated value  5 A	operating voltage		
at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum  supply voltage frequency / rated value  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  according to IEC 60947-2 / 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  operational current  at 30 °C / rated value  5 A  at 40 °C / rated value  5 A	•	120 V	
CSA C22.2 No. 5-02 / maximum  supply voltage frequency / rated value  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  • according to IEC 60947-2 / rated value  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current  • at 30 °C / rated value  • at 40 °C / rated value  5 A  • at 40 °C / rated value	<ul><li>at DC / rated value / maximum</li></ul>	60 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 • according to IEC 60947-2 / rated value  10 kA  • according to IEC 60947-2 / rated value  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current • at 30 °C / rated value • at 40 °C / rated value  5 A  5 A		60 V	
protection class IP  Switching capacity  switching capacity current  • according to EN 60898 / rated value • according to IEC 60947-2 / rated value  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current • at 30 °C / rated value  • at 40 °C / rated value  5 A  • at 40 °C / rated value  5 A	supply voltage frequency / rated value	50 Hz	
Switching capacity switching capacity current  • according to EN 60898 / rated value • according to IEC 60947-2 / rated value  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current • at 30 °C / rated value • at 40 °C / rated value  5 A	Protection class		
switching capacity current  • according to EN 60898 / rated value  • according to IEC 60947-2 / 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  operational current  • at 30 °C / rated value  • at 40 °C / rated value  5 A	protection class IP	IP20, with connected conductors, IP 40 in the handle range	
according to EN 60898 / rated value 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  operational current at 30 °C / rated value at 40 °C / rated value  5 A  at 40 °C / rated value  5 A	Switching capacity		
according to IEC 60947-2 / rated value  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current  at 30 °C / rated value  at 40 °C / rated value  5 A	switching capacity current		
Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current  • at 30 °C / rated value  • at 40 °C / rated value  5 A	<ul> <li>according to EN 60898 / rated value</li> </ul>	10 kA	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current  • at 30 °C / rated value  • at 40 °C / rated value  5 A	<ul> <li>according to IEC 60947-2 / rated value</li> </ul>	15 kA	
hot operating state / per pole  Current  operational current  • at 30 °C / rated value  • at 40 °C / rated value  5 A	Dissipation		
operational current  • at 30 °C / rated value  • at 40 °C / rated value  5 A  5 A		2.9 W	
<ul> <li>at 30 °C / rated value</li> <li>at 40 °C / rated value</li> <li>5 A</li> <li>5 A</li> </ul>	Current		
• at 40 °C / rated value 5 A	operational current		
	• at 30 °C / rated value	5 A	
• at 45 °C / rated value 4.9 A	• at 40 °C / rated value	5 A	
	• at 45 °C / rated value	4.9 A	

<ul> <li>at 50 °C / rated value</li> </ul>	4.8 A			
<ul> <li>at 55 °C / rated value</li> </ul>	4.6 A	4.6 A		
<ul> <li>at 60 °C / rated value</li> </ul>	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	240/120			
suitability for operation	Mechanical engineering / industry			
Product details				
product component / neutral conductor switching	No			
product feature / touch protection	Yes			
product component				
<ul> <li>tunnel terminals top</li> </ul>	No			
<ul> <li>tunnel terminals bottom</li> </ul>	No			
<ul> <li>combined terminal top</li> </ul>	Yes	Yes		
combined terminal bottom	Yes			
product feature				
<ul><li>halogen-free</li></ul>	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 mm²			
maximum	25 mm²			
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	154 g			
Environmental conditions				
vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)			
ambient temperature / during operation	FF %0			
• minimum	55 °C			
maximum  ambient temperature / during storage	25 °C			
ambient temperature / during storage  • minimum	-40 °C			
maximum     maximum	75 °C			
	10.0			
Certificates				
reference code	-			
according to EN 61346-2     according to IEC 81346-2	F			
according to IEC 81346-2		Declaration of		
General Product Approval		Declaration of Conformity		



Confirmation









Declaration of Conformity

**Test Certificates** 

other

CE

Miscellaneous

Special Test Certificate

**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=5SJ4111-7HG40

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4111-7HG40

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4111-7HG40

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications