## **SIEMENS**

Data sheet 5SJ4111-8HG40



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

number of poles design of pole design of pole tripping characteristic class D mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to lEC 204.2 according to EC 750 overvoltage category 3 degree of pollution 3 supply voltage insulation voltage (Ui) at AC rated value 440 V  Supply voltage 1 at AC rated value 1 at AC according to UL 489 and CSA C22.2 No. 5-02 maximum 1 at DC rated value maximum 2 at DC rated value maximum 3 at DC rated value maximum 4 at DC single channel according to UL 489 and CSA 60 V 22 2 No. 5-02 maximum  supply voltage frequency rated value 50 Hz  Protection class  pr	Model		
design of the product  General technical data  number of poles design of pole tripping characteristic class mechanical service life (operating cycles) typical installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code according to DIN 40719 extended according to EEC 204-2 according to EEC 750 overvoltage category 3 degree of pollution 3 Voltage insulation voltage (UI) at AC rated value at AC rated value at AC rated value at AC rated value bat AC rated value at AC rated value bat AC rated value at AC rated value bat AC rated value at AC according to UL 489 and CSA C222 No. 5-02 maximum at DC rated value maximum at DC single channel according to UL 489 and CSA supply voltage requency rated value  50 Hz  Protection class IP  Switching capacity current according to EG 69947-2 rated value  10 KA according to EG 69947-2 rated value  10 KA according to EG 69947-2 rated value  10 KA according state per pole  Dissipation  Power loss [W] for rated value of the current at AC in hot operating state per pole  Verbellage supply at AC according to UL 489 and CSA C222 No. 5-02 sutablibity for operation  Mechanical engineering / industry	product brand name	SENTRON	
Ceneral technical data  number of poles 1 design of pole 1 tripping characteristic class 1 mechanical service life (operating cycles) typical installation environment regarding EMC solutable for environment B (immunity to interference not applicable) reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category degree of politution 3 voltage insulation voltage (UI) at AC rated value 440 V  Supply voltage supply voltage at AC rated value 400 V at AC rated value 400 V operating 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 60 V at DC rated value maximum 60 V at DC rated value maximum 60 V c22 x No. 5-02 maximum  protection class protection class IP Supply voltage requency rated value 150 Hz  Protection class IP Supply voltage requency rated value 16 x AC according to IL 489 and CSA C22.2 No. 5-02 and x AC according to IL 489 and CSA C22.2 No. 5-02 and x AC according to IL 489 and CSA C22.2 No. 5-02 and x AC according to IL 489 and CSA C22.2 No. 5-02 and x AC according to IL 489 and CSA C22.2 No. 5-02 and x AC according to IL 489 and CSA C22.2 No. 5-02 and x AC according to IL 489 and CSA C22.2 No. 5-02 and x AC according to IL 489 and CSA C22.2 No. 5-02 and x AC according to IL 489 and CSA C22.2 No. 5-02 and x AC according to IL 489 and CSA C22.2 No. 5-02 and x AC according to IL 489 and CSA C22.2 No. 5-02 and x AC according to IL 489 and CSA C22.2 No. 5-02 and x AC according to ILC 60947-2 rated value 15 kA  DISABLE ACCORDINATE	product designation	Miniature circuit breakers	
number of poles design of pole design of pole tripping characteristic class D mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to lEC 204.2 according to EC 750 overvoltage category 3 degree of pollution 3 supply voltage insulation voltage (Ui) at AC rated value 440 V  Supply voltage 1 at AC rated value 1 at AC according to UL 489 and CSA C22.2 No. 5-02 maximum 1 at DC rated value maximum 2 at DC rated value maximum 3 at DC rated value maximum 4 at DC single channel according to UL 489 and CSA 60 V 22 2 No. 5-02 maximum  supply voltage frequency rated value 50 Hz  Protection class  pr	design of the product	Miniature circuit-breaker 5SJ4	
design of pole tripping characteristic class D D OOO Installation environment regarding EMC Suitabile for environment B (immunity to interference not applicable) installation environment regarding EMC Suitabile for environment B (immunity to interference not applicable) reference code according to DIN 40719 extended according to EEC 204-2 according to IEC 750 P	General technical data		
tripping characteristic class D mechanical service life (operating cycles) typical 10 000 installation environment regarding EMC Sultable for environment B (immunity to interference not applicable) reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category 3 degree of pollution 3  Voltage  insulation voltage (Ui) at AC rated value 440 V  Supply voltage  • at AC rated value 400 V • at DC rated value 60 V  operating voltage  • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • 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 purported 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 50 Hz  Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current 6 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  Main circuit  type of voltage supply at AC according to UL 489 and CSA 240/120  guitability for operation 5 Mechanical engineering / industry	number of poles	1	
mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to IDN 40719 extended according to IEC 204-2 according to IEC 750  overvoltage category degree of pollution 3  Vottage insulation voltage (UI) at AC rated value 440 V  Supply voltage supply voltage  supply voltage  • at AC rated value • at DC rated value • at DC rated value • at DC rated value maximum • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum  switching capacity  switching capacity current • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value  according to IEC 60947-2 rated value	design of pole	1P	
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 3 Voltage Insulation voltage (UI) at AC rated value  440 V  Supply voltage  at AC rated value 400 V  at 1 DC 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 60 V  at DC single channel according to UL 489 and CSA C22.2 No. 5-02 musply voltage frequency rated value 50 Hz  Protection class IP  Switching capacity Switching capacity Switching capacity current a according to IEC 60947-2 rated value 10 kA a coording to IEC 60947-2 rated value 2.5 W  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02 suitability for operation  Mechanical engineering / industry	tripping characteristic class	D	
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750  overvoltage category degree of pollution 3  Voltage insulation voltage (Ui) at AC rated value  supply voltage  • at AC rated value • at DC rated value • at C rated value • at DC 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  50 Hz  Protection class  protection class IP  prote	mechanical service life (operating cycles) typical	10 000	
EC 204-2 according to IEC 750   overvoltage category   3   3     Voltage     insulation voltage (Ui) at AC rated value   440 V     Supply voltage     supply voltage     at AC rated value   400 V     at AC rated value   60 V     operating voltage     at AC according to UL 489 and CSA C22.2 No. 5-02 maximum     at DC rated value maximum   60 V     at DC rated value maximum   50 Hz     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     according to IEC 60947-2 rated value   10 kA     according to IEC 60947-2 rated value   2.5 W     Dissipation     power loss [W] for rated value of the current at AC in hot operating state per pole     suitability for operation   420/120     cz2.2 No. 5-02     suitability for operation   Mechanical engineering / industry	installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)	
degree of pollution 3  Voltage  insulation voltage (Ui) at AC rated value 440 V  Supply voltage  • at AC rated value 400 V • at DC rated value 60 V  operating voltage  • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC rated value maximum 60 V • at DC rated value 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  supply voltage frequency rated value 50 Hz  Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current • according to EN 60898 rated value 10 kA • according to EN 60898 rated value 15 kA  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  type of voltage supply at AC according to UL 489 and CSA 240/120  Sutlability for operation Mechanical engineering / industry	· · · · · · · · · · · · · · · · · · ·	F	
Voltage  insulation voltage (Ui) at AC rated value  440 V  Supply voltage  supply voltage  • at AC rated value • at DC rated value • at DC rated value • 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  • 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  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 • 2.5 W  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  type of voltage supply at AC according to UL 489 and CSA  C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	overvoltage category	3	
insulation voltage (Ui) at AC rated value  Supply voltage  • at AC rated value • at DC rated value • at DC rated value  • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC rated value 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  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  type of voltage supply at AC according to UL 489 and CSA  C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	degree of pollution	3	
Supply voltage  • at AC rated value • at DC rated value • at C caccording 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 • 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  switching capacity current • according to EN 60898 rated value • according to EC 60947-2 rated value  10 kA • 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  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	Voltage		
supply voltage  • at AC rated value  • at DC rated value  • at C 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  supply voltage frequency rated value  50 Hz  Protection class  protection class IP  Switching capacity  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  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	insulation voltage (Ui) at AC rated value	440 V	
at AC rated value at DC rated value beta to DC 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  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 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  which in circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	Supply voltage		
at DC 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  of 0 V  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  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  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	supply voltage		
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  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  • 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  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	at AC rated value	400 V	
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  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  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	at DC rated value	60 V	
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  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  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	operating voltage		
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  switching capacity current      according to EN 60898 rated value     according to IEC 60947-2 rated value  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry		120 V	
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  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	<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  15 kA  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry		60 V	
protection class IP  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  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  IP20, with connected conductors, IP 40 in the handle range  10 kA  2.5 W  2.5 W  Mechanical engineering / industry	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  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  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	Protection class		
switching capacity current  • 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  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	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  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  10 kA  2.5 W  ACCORDINATION OF TABLE	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  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  15 kA  2.5 W  240/120  Mechanical engineering / industry	switching capacity current		
power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	<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  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  2.5 W  240/120  Mechanical engineering / industry	<ul> <li>according to IEC 60947-2 rated value</li> </ul>	15 kA	
operating state per pole  Main circuit  type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	Dissipation		
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry		2.5 W	
C22.2 No. 5-02  suitability for operation  Mechanical engineering / industry	Main circuit		
· · ·		240/120	
Product details	suitability for operation	Mechanical engineering / industry	
	Product details		

	_		
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		
<ul> <li>combined terminal bottom</li> </ul>	Yes		
<ul> <li>neutral conductor switching</li> </ul>	No		
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			
short-circuit current breaking capacity (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	160 g		
Environmental conditions			
standard	IEC / EN 60947-2 / UL 489		
vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)		
vibration resistance according to IEC 60068-2-6	±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz		
ambient temperature during operation			
• minimum	55 °C		
maximum	-25 °C		
ambient temperature during operation	max. 95% humidity		
ambient temperature during storage			
• minimum	-40 °C		
maximum	75 °C		
General Product Approval		Declaration of Conformity	

Confirmation











Test Certificates other Environment

 $\frac{\text{Miscellaneous}}{\text{ate}} \quad \frac{\text{Special Test Certific-}}{\text{ate}} \quad \frac{\text{Miscellaneous}}{\text{Miscellaneous}} \quad \frac{\text{Confirmation}}{\text{firmations}} \quad \frac{\text{Environmental Confirmation}}{\text{firmations}}$ 

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=5SJ4111-8HG40

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4111-8HG40

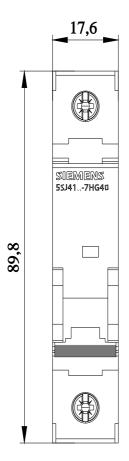
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4111-8HG40

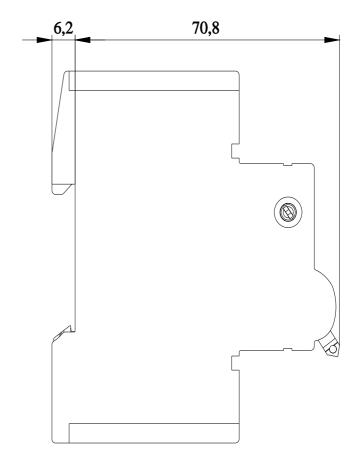
CAx-Online-Generator

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications





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