SIEMENS

Data sheet   **5SJ4101-8HG40**

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

Model	
product brand name	SENTRON
product designation	Miniature circuit breakers
design of the product	Miniature circuit-breaker 5SJ4

General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	D
mechanical service life (operating 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	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	
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	1.5 W

Current	
operational current	
● at 30 °C rated value	1 A
● at 40 °C rated value	1 A
● at 45 °C rated value	0.96 A
● at 50 °C rated value	0.9 A

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● at 55 °C rated value	0.9 A
● at 60 °C rated value	0.84 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	240/120
suitability for operation	Mechanical engineering / industry

Product details

product component	
● tunnel terminals top	No
● tunnel terminals bottom	No
● combined terminal top	Yes
● combined terminal bottom	Yes
● neutral conductor switching	No
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

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	165 g

Environmental conditions

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

Certificates

reference code	
● according to EN 61346-2	F
● according to IEC 81346-2	F

General Product Approval	Declaration of Conformity

[Confirmation]

CCC UL EHC UKCA CE EG-Konf.

Test Certificates		other	
[Miscellaneous](#)	[Special Test Certificate](#)	[Miscellaneous](#)	[Environmental Confirmations](#)

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=5SJ4101-8HG40

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SJ4101-8HG40

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4101-8HG40

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://www.siemens.com/specifications

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