SIEMENS

Data sheet

5SJ4150-7HG40



Miniature circuit breaker 240 V 10kA, 1-pole, C, 50 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	С		
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		
value range of the supply voltage frequency	50/60 Hz		
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	6.3 W		
Current			
operational current			
• at 30 °C rated value	50 A		
 at 40 °C rated value 	50 A		
• at 45 °C rated value	49 A		

a at 50 °C rated value	47.6 A		
• at 50 °C rated value	47.6 A		
 at 55 °C rated value at 60 °C rated value 	46.3 A		
at AC rated value	45 A		
	50 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	10 kA		
according to UL 1077 and CSA C22.2 No.235 Connections			
connectable conductor cross-section finely stranded with			
core end processing			
• minimum	0.75 mm²		
• 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	168 g		
Environmental conditions	100 g		
	$= \frac{1}{2} \sum_{i=1}^{n} $		
vibration resistance	50 m/s ² at 25 to 150Hz and 60m/s ² 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	(0.10)		
• minimum	-40 °C		
• maximum	75 °C		
General Product Approval	Declaration of Conformity		
Test Certificates other			

5SJ41507HG40 Page 2/4

1/23/2023

Subject to change without notice © Copyright Siemens

Miscellaneous	Special Test Certific-	Environmental Con-	Miscellaneous
	ate	firmations	

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=5SJ4150-7HG40

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4150-7HG40

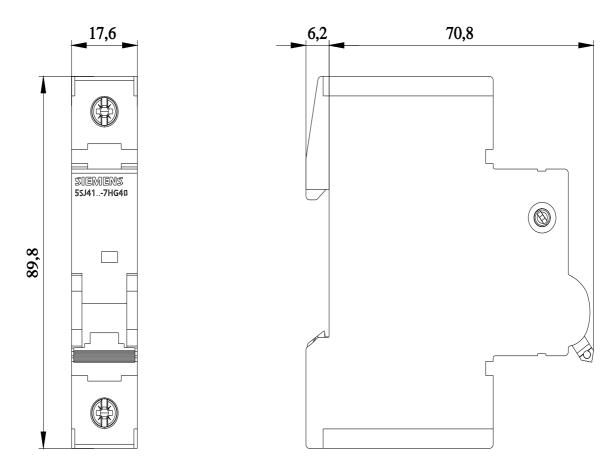
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4150-7HG40

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

Tender specifications

http://www.siemens.com/specifications



0