SIEMENS

Data sheet

5SJ4160-6HG40



Miniature circuit breaker 240 V 14kA, 1-pole, B, 60A, 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	В				
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 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	6.5 W				
Current					
operational current					
 at 30 °C rated value 	60 A				
 at 40 °C rated value 	60 A				
• at 45 °C rated value	58.2 A				

• at 50 °C rated value	56.4 A			
• at 55 °C rated value	54.4 A			
• at 60 °C rated value	52.8 A			
at AC rated value	60 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 top	No			
combined terminal top	Yes			
combined terminal top combined terminal bottom	Yes			
	No			
neutral conductor switching	NO			
product feature	Yes			
 halogen-free sealable 	Yes			
selable 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 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	174 g			
Environmental conditions				
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/s ² at 25 to 150 Hz			
-	11 mm at 5 to 25 Hz, 50 m/s at 25 to 150 Hz			
ambient temperature during operation	55 °C			
• minimum	-25 °C			
maximum ambient temperature during energian				
ambient temperature during operation	max. 95% humidity			
ambient temperature during storage	40.80			
• 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			
<u>Confirmation</u>	rnr IIK cc			
(uc) (VL)				
U				
UL				

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Test Certificates		other		
<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>	Miscellaneous	Environmental Con- firmations	

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=5SJ4160-6HG40

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4160-6HG40

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

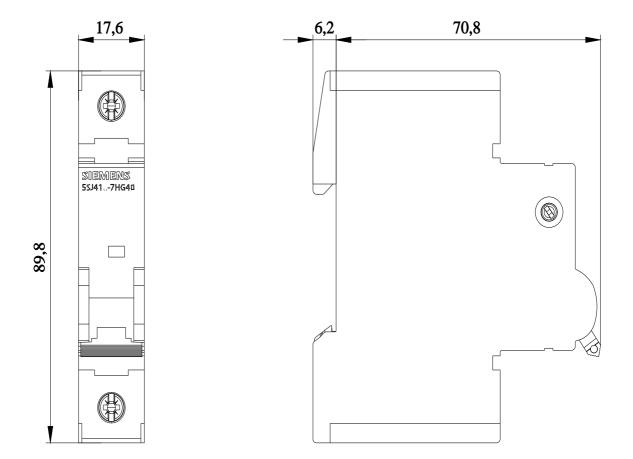
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4160-6HG40

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications



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