SIEMENS

Data sheet

5SJ4316-7HG42



Circuit breaker 10kA, 3-pole, C, 16A according to UL 489-480Y/277V

Model	
product brand name	SENTRON
product designation	Miniature circuit breakers
design of the product	Miniature circuit-breaker 5SJ4
General technical data	
number of poles	3
design of pole	3P
tripping characteristic class	C
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	
insulation voltage (Ui) at AC rated value	440 V
Supply voltage	
supply voltage	
 at AC rated value 	400 V
 at DC rated value 	60 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 	277 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
 at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum 	125 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	2.2 W
Current	
operational current	

 at 30 °C rated value 	16 A
 at 40 °C rated value 	16 A
 at 45 °C rated value 	15.5 A
 at 50 °C rated value 	15.2 A
 at 55 °C rated value 	14.8 A
 at 60 °C rated value 	14.4 A
at AC rated value	16 A
Main circuit	
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	480/277
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 mm ²
• maximum	25 mm ²
tightening torque with screw-type terminals maximum position of power supply cord	3.5 N·m Any
Mechanical Design	404
height	121 mm
width	54 mm
depth	70 mm 70 mm
installation depth number of modular width units	3
fastening method	on standard mounting rail
mounting position	any
net weight	487 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
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	
(uc) (VL)	

Test Certificates	other		
Special Test Certific- ate	Environmental Con- firmations	Confirmation	Miscellaneous

Further information

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=5SJ4316-7HG42

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4316-7HG42

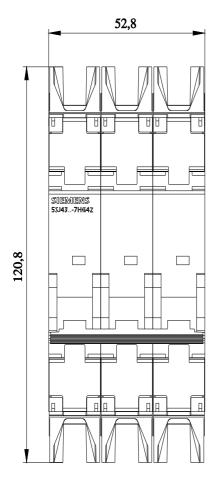
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4316-7HG42

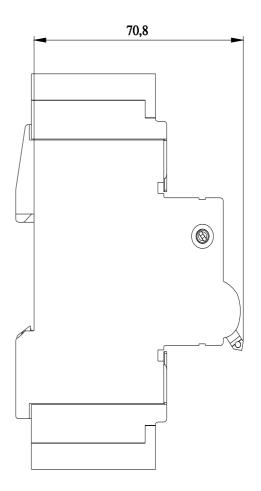
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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