SIEMENS

Data sheet 5SJ4316-7HG41



Miniature circuit breaker 240 V 14kA, 3-pole, C, 16A, D=70 mm according to UL 489

product brand name product designation design of the product design of pole to product design of pole des	A	
product designation Miniature circuit breakers design of the product Miniature circuit-breaker \$S.J4 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) Fereirence code according to IDN 40719 extended according to IEC 2042 according to IEC 780 overvoitage category 3 degree of pollution 3 Voltage insulation voltage (Ui) at AC rated value 440 V operational current 16 A • at 40 °C rated value 16 A • at 50 °C rated value 15.2 A • at 50 °C rated value 15.2 A • at 60 °C rated value 14.4 A • at 60 °C rated value 14.4 A • at AC rated value 16 A supply voltage • at AC according to IL 489 and CSA C22.2 No. 5-02 maximum • at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel a	Model	
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at AC at DC rated value 50 V value range of the supply voltage frequency 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 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range Breaking Capacity	Supply voltage	
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operating voltage • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC rated value maximum • at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range Breaking Capacity	at DC rated value	60 V
at AC according to UL 489 and CSA C22.2 No. 5-02 maximum at DC rated value maximum at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range Breaking Capacity	value range of the supply voltage frequency	50/60 Hz
maximum • at DC rated value maximum • at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range Breaking Capacity	operating voltage	
at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range Breaking Capacity		240 V
5-02 maximum • at DC 2-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 Breaking Capacity	at DC rated value maximum	60 V
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 Breaking Capacity		60 V
Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range Breaking Capacity		125 V
protection class IP IP20, with connected conductors, IP 40 in the handle range Breaking Capacity	supply voltage frequency rated value	50 Hz
Breaking Capacity	Protection class	
	protection class IP	IP20, with connected conductors, IP 40 in the handle range
switching capacity current	Breaking 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
Main circuit	
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	240
suitability for operation	Infrastructure / Industry
Product details	
product feature touch protection	Yes
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	
set values setting current (li) for I-tripping	8
reference value setting current (li) for I-tripping	x In
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	110 mm
width	54 mm
depth	70 mm
installation depth	70 mm
number of modular width units	3
fastening method	on standard mounting rail
mounting position	any
net weight	479 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	-25 °C
• maximum	55 °C
ambient temperature during operation	max. 95% humidity
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C
Approvals Certificates	
General Product Approval	













Test Certificates other **Environment**

Special Test Certific-

Confirmation

Miscellaneous

Environmental Confirmations

Environmental Con-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=5SJ4316-7HG41

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

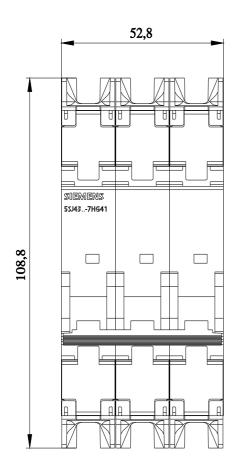
https://support.industry.siemens.com/cs/ww/en/ps/5SJ4316-7HG4

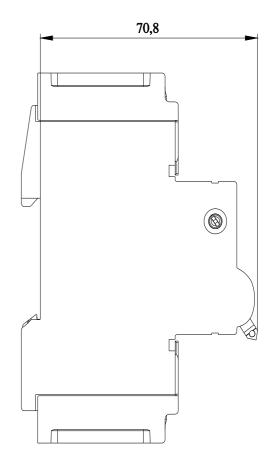
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4316-7HG41

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications





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8/22/2024

