## SIEMENS

## Data sheet

## 5SJ4316-7HG41



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

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				
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				
<ul> <li>at AC according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>	240 V			
<ul> <li>at DC rated value maximum</li> </ul>	60 V			
<ul> <li>at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>	60 V			
<ul> <li>at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>	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				
<ul> <li>according to EN 60898 rated value</li> </ul>	10 kA			
<ul> <li>according to IEC 60947-2 rated value</li> </ul>	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
<ul> <li>at 45 °C rated value</li> </ul>	15.5 A
<ul> <li>at 50 °C rated value</li> </ul>	15.2 A
<ul> <li>at 55 °C rated value</li> </ul>	14.8 A
<ul> <li>at 60 °C rated value</li> </ul>	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	240
suitability for operation	Mechanical engineering / industry
Product details	
product component	
tunnel terminals top	No
tunnel terminals top	No
combined terminal top	Yes
<ul> <li>combined terminal bottom</li> </ul>	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	0.75 mm²
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
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	477 g
Environmental conditions	
vibration resistance	50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
vibration resistance according to IEC 60068-2-6	$\pm 1$ mm at 5 to 25 Hz; 50 m/s <sup>2</sup> at 25 to 150 Hz
ambient temperature during operation	1 min at 5 to 25 Hz, 50 m/5 at 25 to 150 Hz
minimum	55 °C
	-25 °C
maximum     ambient temperature during operation	
ambient temperature during operation	max. 95% humidity
ambient temperature during storage	40 °C
• minimum	-40 °C
• maximum	75 °C
General Product Approval	Declaration of Conformity
Confirmation	rnr cc UK
(m.) (v.)	
	EG-Konf.
51 51	

**Test Certificates** 

other

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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=5SJ4316-7HG41

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4316-7HG41

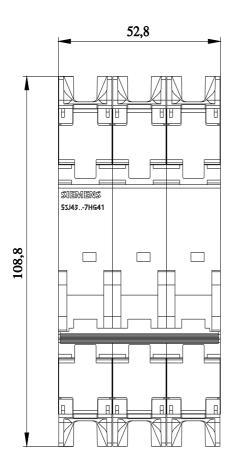
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4316-7HG41

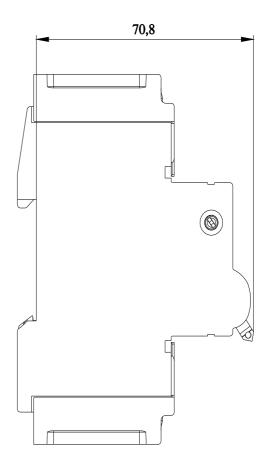
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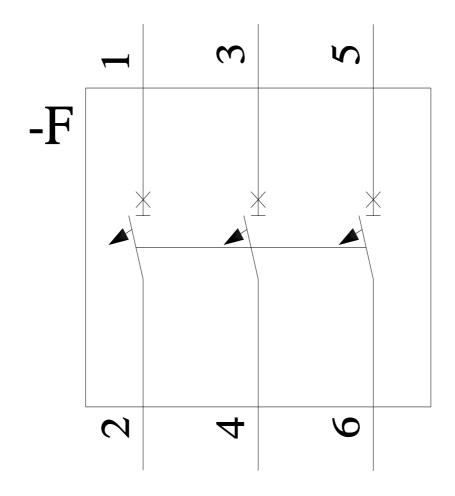
http://www.siemens.com/cax

**Tender specifications** 

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