## SIEMENS

## Data sheet

## 5SJ4316-8HG41



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

Model	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	D				
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					
<ul> <li>at AC rated value</li> </ul>	400 V				
<ul> <li>at DC rated value</li> </ul>	60 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	2.1 W				
Current					
operational current					

<ul> <li>at 30 °C rated value</li> </ul>	16 A
<ul> <li>at 40 °C rated value</li> </ul>	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 bottom	No
<ul> <li>combined terminal top</li> </ul>	Yes
combined terminal bottom	Yes
<ul> <li>neutral conductor switching</li> </ul>	No
product feature	
<ul> <li>halogen-free</li> </ul>	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	14 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 <sup>2</sup>
tightening torque with screw-type terminals maximum	3.5 N·m
position of power supply cord	Any
Mechanical Design	, wy
	110 mm
height 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	490 g
Environmental conditions	
vibration resistance	50 m/s² at 25 to 150Hz and 60m/s² 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	
• 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	rnr ce UK
(u) (u)	
CCC UL	EG-Konf.

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

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=5SJ4316-8HG41

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4316-8HG41

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

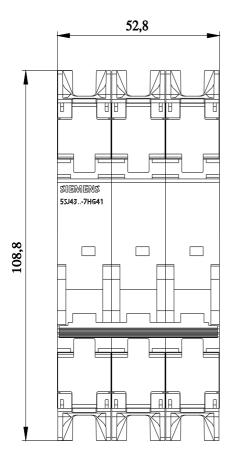
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4316-8HG41

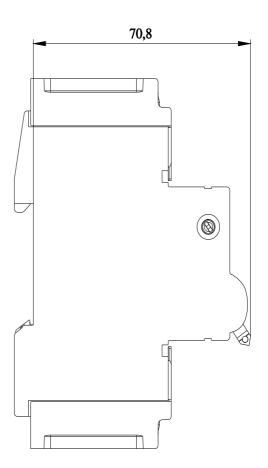
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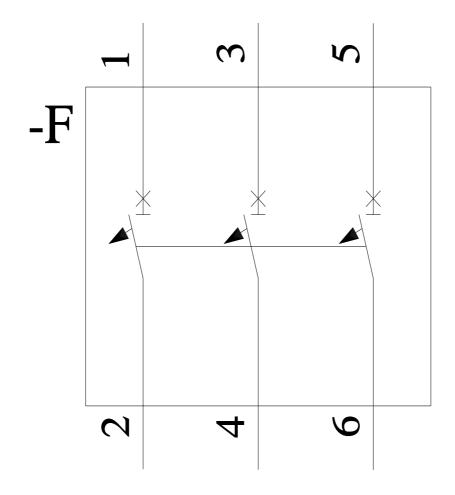
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







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