## **SIEMENS**

Data sheet 5SJ4314-7HG42



Circuit breaker 10kA, 3-pole, C, 0.3 A 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	
<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>	277 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	1.2 W
Current	
operational current	

• at 30 °C rated value	0.3 A	
• at 40 °C rated value	0.3 A	
• at 45 °C rated value	0.29 A	
• at 50 °C rated value	0.28 A	
• at 55 °C rated value	0.26 A	
• at 60 °C rated value	0.25 A	
at AC rated value	0.3 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		
<ul><li>tunnel terminals top</li></ul>	No	
<ul> <li>tunnel terminals bottom</li> </ul>	No	
<ul> <li>combined terminal top</li> </ul>	Yes	
<ul> <li>combined terminal bottom</li> </ul>	Yes	
<ul> <li>neutral conductor switching</li> </ul>	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/3	31lb.in
Short circuit		
short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235	10 kA	
Connections		
connectable conductor cross-section finely stranded with		
core end processing		
minimum	0.75 mm²	
	0.75 mm <sup>2</sup> 25 mm <sup>2</sup>	
<ul> <li>minimum</li> <li>maximum</li> <li>tightening torque with screw-type terminals maximum</li> </ul>		
<ul><li>minimum</li><li>maximum</li></ul>	25 mm²	
<ul> <li>minimum</li> <li>maximum</li> <li>tightening torque with screw-type terminals maximum</li> </ul>	25 mm² 3.5 N·m	
<ul> <li>minimum</li> <li>maximum</li> <li>tightening torque with screw-type terminals maximum</li> <li>position of power supply cord</li> </ul>	25 mm² 3.5 N·m	
minimum     maximum     tightening torque with screw-type terminals maximum     position of power supply cord  Mechanical Design	25 mm² 3.5 N·m Any	
minimum     maximum     tightening torque with screw-type terminals maximum position of power supply cord      Mechanical Design      height width depth	25 mm² 3.5 N·m Any	
minimum     maximum     tightening torque with screw-type terminals maximum position of power supply cord      Mechanical Design      height width depth installation depth	25 mm² 3.5 N·m Any  121 mm 54 mm 70 mm 70 mm	
minimum     maximum     tightening torque with screw-type terminals maximum position of power supply cord      Mechanical Design      height     width     depth     installation depth     number of modular width units	25 mm² 3.5 N·m Any  121 mm 54 mm 70 mm	
minimum     maximum     tightening torque with screw-type terminals maximum     position of power supply cord      Mechanical Design     height     width     depth     installation depth     number of modular width units     fastening method	25 mm² 3.5 N·m Any  121 mm 54 mm 70 mm 70 mm	
minimum     maximum     tightening torque with screw-type terminals maximum     position of power supply cord      Mechanical Design      height     width     depth     installation depth     number of modular width units     fastening method     mounting position	25 mm² 3.5 N·m Any  121 mm 54 mm 70 mm 70 mm 3 on standard mounting rail any	
minimum     maximum     tightening torque with screw-type terminals maximum position of power supply cord      Mechanical Design     height width depth installation depth number of modular width units fastening method mounting position net weight	25 mm² 3.5 N·m Any  121 mm 54 mm 70 mm 70 mm 3 on standard mounting rail	
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minimum     maximum     tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height     width     depth     installation depth     number of modular width units     fastening method     mounting position     net weight  Environmental conditions  vibration resistance	25 mm² 3.5 N·m Any  121 mm 54 mm 70 mm 70 mm 3 on standard mounting rail any 509 g  50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)	
minimum     maximum     tightening torque with screw-type terminals maximum     position of power supply cord      Mechanical Design     height     width     depth     installation depth     number of modular width units     fastening method     mounting position     net weight  Environmental conditions  vibration resistance     vibration resistance according to IEC 60068-2-6	25 mm² 3.5 N·m Any  121 mm 54 mm 70 mm 3 on standard mounting rail any 509 g	
minimum     maximum     tightening torque with screw-type terminals maximum position of power supply cord      Mechanical Design     height width depth installation depth number of modular width units fastening method mounting position net weight  Environmental conditions  vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation	25 mm² 3.5 N·m Any  121 mm 54 mm 70 mm 70 mm 3 on standard mounting rail any 509 g  50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz	
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minimum maximum tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design height width depth installation depth number of modular width units fastening method mounting position net weight  Environmental conditions  vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation  maximum	25 mm² 3.5 N·m Any  121 mm 54 mm 70 mm 70 mm 3 on standard mounting rail any 509 g  50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz  55 °C -25 °C max. 95% humidity	Declaration of
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Confirmation









Declaration of Conformity

**Test Certificates** 

other



Special Test Certificate

Miscellaneous

Environmental Confirmations Confirmation

## 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=5SJ4314-7HG42

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4314-7HG42

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4314-7HG42

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications





