SIEMENS

Data sheet

5SJ4315-7HG42



Circuit breaker 10kA, 3-pole, C, 1.6 A according to UL 489-480Y/277V

product designation SENTRON product designation Miniature circuit breakers design of the product Miniature circuit-breaker 5SJ4 Ceneral technical data Inumber of poles number of poles 3 tripping characteristic class C mechanical service life (switching cycles) / typical 10 000 installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code / according to DIX 40719 extended according to IEC 204-2 / according to IEC 750 Suitable for environment B (immunity to interference not applicable) vervoltage category 3 4 voltage 4 Voltage type of voltage / of the operating voltage AC/DC insulation voltage (UI) / at AC / rated value 440 V Supply voltage / at AC / rated value 400 V operating voltage et AC / according to UL 489 and CSA C22.2 No. 5-0 (2 / maximum) et at DC / according to UL 489 and CSA C22.2 No. 5-0 (2 / maximum) 60 V et at DC / according to UL 489 and CSA C22.2 No. 5-0 (2 / maximum) 60 V et at DC / according to UL 489 and CSA C22.2 No. 5-0 (2 / maximum) 50 Hz	Model		
design of the product Miniature circuit-breaker 5SJ4 General technical data number of poles number of poles 3 tripping characteristic class C mechanical service life (switching 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 750 overvoltage category 3 degree of pollution 3 Voltage Voltage type of voltage / of the operating voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage / at AC / rated value 440 V Supply voltage / at AC / rated value 400 V operating voltage at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 60 V • at DC / rated value / maximum 60 V • at DC / single channel / according to UL 489 and CSA 125 V c22.2 No. 5-02 / maximum 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range <td>product brand name</td> <td>SENTRON</td>	product brand name	SENTRON	
General technical data number of poles 3 tripping characteristic class C mechanical service life (switching cycles) / typical 10 000 installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code / according to DIN 40719 extended F according to IEC 204-2 / according to IEC 750 7 overvoltage category 3 degree of pollution 3 Voltage Voltage supply voltage / of the operating voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage according to UL 489 and CSA C22.2 No. 5- 02 / maximum 60 V • at DC / rated value / maximum 60 V • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 277 V • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 60 V • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity 50 Hz	product designation	Miniature circuit breakers	
number of poles 3 tripping characteristic class C mechanical service life (switching 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 overvoltage category 3 degree of pollution 3 Voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage at C/ rated value operating voltage 400 V supply voltage at AC / rated value operating voltage 60 V operating voltage / at AC / rated value 60 V operating voltage / at DC / single channel / according to UL 489 and CSA 22.2 No. 5-02 / maximum ot DC / single channel / according to UL 489 and CSA 22.2 No. 5-02 / maximum ot DC / Single channel / according to UL 489 and CSA 22.5 V c22.2 No. 5-02 / maximum 50 Hz supply voltage frequency / rated value 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range	design of the product	- Miniature circuit-breaker 5SJ4	
tripping characteristic class C mechanical service life (switching cycles) / typical 10 000 installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code / according to DIN 40719 extended F according to IEC 204-2 / according to IEC 750 3 overvoltage category 3 degree of pollution 3 Voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 400 V operating voltage 60 V • at DC / rated value / maximum 60 V • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 50 Hz • at DC / schannel / according to UL 489 and CSA 125 V C22.2 No. 5-02 / maximum 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity 120 vit connected conductors, IP 40 in the handle range	General technical data		
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installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code / according to DIN 40719 extended F according to IEC 204-2 / according to IEC 750 3 overvoltage category 3 degree of pollution 3 Voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 400 V operating voltage 400 V operating voltage 400 V operating voltage 400 V operating voltage 60 V • at DC / rated value / maximum 60 V • at DC / 2-channel / according to UL 489 and CSA 125 V C22.2 No. 5-02 / maximum 125 V • at DC / 2-channel / according to UL 489 and CSA 125 V C22.2 No. 5-02 / maximum 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range	tripping characteristic class	С	
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 AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 440 V supply voltage 400 V operating voltage 400 V operating voltage 400 V operating voltage 60 V • 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 / rated value / maximum 60 V • at DC / zetad value / maximum 50 Hz Protection class protection class IP protection class IP IP20, with connected conductors, IP 40 in the handle range	mechanical service life (switching cycles) / typical	10 000	
according to IEC 204-2 / according to IEC 750 overvoltage category 3 degree of pollution 3 Voltage AC/DC insulation voltage / of the operating voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 400 V operating voltage 60 V • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 277 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 IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range	installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)	
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type of voltage / of the operating voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 400 V supply voltage / at AC / rated value 400 V operating voltage 400 V • 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 • at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range	degree of pollution	3	
insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 400 V operating voltage 400 V • 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 • at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range	Voltage		
Supply voltage supply voltage / at AC / rated value 400 V operating voltage 400 V e at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 277 V e at DC / rated value / maximum 60 V e at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 60 V e 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 IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range	type of voltage / of the operating voltage	AC/DC	
supply voltage / at AC / rated value 400 V operating voltage 400 V • 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 • at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range	insulation voltage (Ui) / at AC / rated value	440 V	
operating voltage at AC / according to UL 489 and CSA C22.2 No. 5- 277 V 02 / maximum 60 V 60 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 60 V • at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 50 Hz supply voltage frequency / rated value 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range	Supply 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 / single 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 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity 	supply voltage / at AC / rated value	400 V	
02 / maximum 60 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 • at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum 50 Hz • supply voltage frequency / rated value 50 Hz • Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range	operating voltage		
• 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 IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range	8	277 V	
CSA C22.2 No. 5-02 / maximum • 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 switching capacity IP20, with connected conductors, IP 40 in the handle range	 at DC / rated value / maximum 	60 V	
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 Switching capacity Switching capacity		60 V	
Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity		125 V	
protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range	supply voltage frequency / rated value	50 Hz	
Switching capacity	Protection class		
	protection class IP	IP20, with connected conductors, IP 40 in the handle range	
switching capacity current	Switching capacity		
	switching capacity current		
according to EN 60898 / rated value 10 kA	 according to EN 60898 / rated value 	10 kA	
according to IEC 60947-2 / rated value 15 kA	 according to IEC 60947-2 / rated value 	15 kA	
Dissipation	Dissipation		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.6 W		1.6 W	
Current	Current		
operational current	operational current		
• at 30 °C / rated value 1.6 A	• at 30 °C / rated value	1.6 A	
• at 40 °C / rated value 1.6 A	• at 40 °C / rated value	1.6 A	

at 45 °C / rate divelue	4.0.4	
• at 45 °C / rated value	1.6 A	
• at 50 °C / rated value	1.5 A	
• at 55 °C / rated value	1.5 A	
• at 60 °C / rated value	1.4 A	
at AC / rated value	1.6 A	
Main circuit	400/077	
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 / neutral conductor switching	No	
product feature / touch protection	Yes	
product component		
 tunnel terminals top 	No	
 tunnel terminals bottom 	No	
 combined terminal top 	Yes	
combined terminal bottom	Yes	
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		
breaking capacity short-circuit current (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 mm ²	
• maximum	25 mm ²	
tightening torque / with screw-type terminals / maximum	3.5 N·m	
position / of power supply cord	Any	
Mechanical Design		
height	121 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	502 g	
Environmental conditions		
vibration resistance	50 m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec)	
ambient temperature / during operation		
• minimum	55 °C	
maximum	-25 °C	
ambient temperature / during storage		
• minimum	-40 °C	
• maximum	75 °C	
Certificates		
reference code		
according to EN 61346-2	F	
according to IEC 81346-2	F	
General Product Approval		Declaration of Conformity



EG-Konf.

Further information

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=5SJ4315-7HG42 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SJ4315-7HG42 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4315-7HG42 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications

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