SIEMENS

Data sheet

5SJ4115-7HG41



Miniature circuit breaker 240 V 14kA, 1-pole, C, 1.6A, D=70 mm according to UL 489 $\,$

product brand name SENTRON product designation Miniature circuit breakers design of the product Miniature circuit breaker SSJ4 Ceneral technical data 1 number of poles 1 tripping characteristic class C mechanical service life (switching cycles) / lypical 10 000 installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code / according to DIN 40719 extended 3 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 / at AC / acted value 400 V operating voltage (UI) at AC / rated value 400 V operating voltage (UI) at AC / rated value 60 V c22 / No. 5-02 / maximum 60 V c32 / No. 5-02 / maximum 60 V c22 / No. 5-02 / maximum 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range switching capacity our	Model			
design of the product Miniature circuit-breaker 5SJ4 General technical data 1 number of poles 1 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 204-27 according to IEC 750 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 at AC / rated value supply voltage / at AC / rated value 400 V operating voltage (J of the operating voltage 60 V ol C / caccording to UL 489 and CSA C22 2 No. 5- 240 V 22 / maximum 60 V e at DC / single channel / according to UL 489 and CSA 125 V C222 No. 5-02 / maximum 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current 10 kA • according to EK 60894 / rated value 10 kA • according to EK 60894 / rated value 10 kA • according to EK 60894 / rated value	product brand name	SENTRON		
General technical data number of poles 1 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 EC 204-21 according to EC 750 overvoltage category 3 degree of pollution 3 Voltage MC/DC insulation voltage (UI) / at AC / rated value 440 V Supply voltage / at AC / rated value 440 V operating voltage according to LL 499 and CSA C22 2 No. 5-02 / maximum e at DC / single channel / according to UL 489 and CSA C22 2 No. 5-02 / maximum 60 V e at DC / single channel / according to UL 489 and CSA C22 2 No. 5-02 / maximum 50 Hz e at DC / single channel / according to UL 489 and CSA C22 2 No. 5-02 / maximum 50 Hz e at DC / single channel / according to UL 489 and CSA C22 2 No. 5-02 / maximum 50 Hz e at DC / single channel / according to UL 489 and CSA C22 2 No. 5-02 / maximum 50 Hz e according to EN 60898 / rated value 50 Hz protection class IP IP20, with connected conductors, IP 40 in the handle range	product designation	Miniature circuit breakers		
number of poles 1 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 DLA 40719 extended according to IEC 204-2 / according to IEC 750 3 overvoitage category 3 degree of pollution 3 Voitage //ype of voitage / at AC / rated value supply voitage (UI) / at AC / rated value 440 V Supply voitage according to UL 489 and CSA C22.2 No. 5-02 / maximum • at AC / according to UL 489 and CSA C22.2 No. 5-02 / 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 current according to IEC 60947-2 / rated value • according to IEC 60947-2 / rated value 10 kA • according to IEC 60947-2 / rated value 10 kA • according to IEC 60947-2 / rated value 16 A	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 (U) / at AC / rated value 440 V Supply voltage / at AC / rated value 400 V operating voltage according to UL 489 and CSA C22.2 No. 5-02 / maximum e at DC / rated value / maximum 60 V cSA C22.2 No. 5-02 / maximum 60 V e at DC / single channel / according to UL 489 and CSA 125 V c22.2 No. 5-02 / maximum 125 V e at DC / 2-channel / according to UL 489 and CSA 125 V c22.2 No. 5-02 / maximum 50 Hz Protection class Protection class protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity 10 kA e according to EC 6947-2 / rated value 10 kA e according to EC 6947-2 / rat	General technical data			
Impediatical 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 Suitable for environment B (immunity to interference not applicable) reference code / according to IEC 204-2 / according to IEC 750 F overvoltage category 3 degree of pollution 3 Voltage AC/DC insulation voltage / of the operating voltage AC/DC insulation voltage / of the operating voltage 440 V supply voltage AC / atcA / according to UL 489 and CSA C22.2 No. 5- operating voltage 440 V e at C/ according to UL 489 and CSA C22.2 No. 5- 240 V c22.2 No. 5-02 / maximum 60 V e at DC / rated value / maximum 60 V e at DC / 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 current 10 kA e according to IEC 60947-2 / rated value 10 kA e according to IEC 60947-2 / rated value 16 kA Dissipation	number of poles	1		
Installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code / according to DIN 40719 extended according to EC 204-2 / according to IEC 750 overvoltage category 3 degree of pollution 3 Votage 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 (DI) / at AC / rated value 400 V operating voltage / at AC / rated value 400 V operating voltage / at AC / rated value 60 V e at AC / according to UL 489 and CSA C22.2 No. 5-0 / maximum 60 V e at DC / rated value / maximum 60 V e at DC / rated value / maximum 125 V supply voltage frequency / rated value 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity 10 kA e according to EN 60898 / rated value 10 kA e according to EN 60898 / rated value 10 kA e according to EN 60898 / rated value 10 kA e according to EN 60898 / rated value 10 kA <td>tripping characteristic class</td> <td>С</td>	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 / of the operating voltage AC/DC isupply voltage / of the operating voltage 440 V Supply voltage / of AC / rated value 440 V Supply voltage 4 AC / rated value operating voltage 4 AC / rated value operating voltage 4 AC / rated value operating voltage 60 V operating voltage 60 V e at DC / rated value / maximum 60 V e at DC / single channel / according to UL 489 and CSA CSA C22.2 No. 5-02 / maximum 125 V supply voltage frequency / rated value 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity 10 kA e according to EC 60947-2 / rated value 10 kA e according to EC 60947-2 / rated value 10 kA e according to EC 60947-2 / rated value 15 kA Dissipation 1.6 W operational current 1.6 A	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 / of the operating voltage 400 V Supply voltage 400 V operating voltage 400 V operating voltage 400 V • at AC / according to UL 489 and CSA C22.2 No. 5- 240 V 0.2 / maximum 60 V • at DC / single channel / according to UL 489 and CSA 60 V CSA C22.2 No. 5-02 / maximum 60 V • at DC / 2-channel / according to UL 489 and CSA 125 V C22.2 No. 5-02 / maximum 50 Hz Protection class 1P20, with connected conductors, IP 40 in the handle range Switching capacity rated value 10 kA • according to EN 60989 / rated value 10 kA • according to EN 60989 / rated value • according to EN 60989 / rated value 15 kA 1.6 W	installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)		
degree of pollution 3 Voltage AC/DC insulation voltage / of the operating voltage AC/DC insulation voltage (U) / at AC / rated value 440 V Supply voltage 440 V supply voltage 400 V operating voltage 400 V • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 240 V • at DC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 60 V • at DC / 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 125 V supply voltage frequency / rated value 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity current • according to EC 60947-2 / rated value 10 kA • according to EC 60947-2 / rated value 15 kA Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.6 W current • at 30 °C / rated value 1.6 A	0	F		
Voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 440 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 240 V • at DC / rated value / maximum 60 V • at DC / rated value / 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 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 current 10 kA • according to EN 60898 / rated value 10 kA • according to EN 60894 / rated value 10 kA • according to EN 60894 / rated value 10 kA • according to IEC 60947-2 / rated value 1.6 W operational current 1.6 A	overvoltage category	3		
type of voltage / of the operating voltage AC/DC insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 400 V operating voltage 400 V • at AC / rated value 400 V operating voltage 400 V • at AC / rated value 400 V operating voltage 400 V • at AC / rated value / maximum 60 V • at DC / single channel / according to UL 489 and CSA 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 Protection class 125 V gupply voltage frequency / rated value 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current 10 kA • according to EC 60947-2 / rated value 10 kA • according to EC 60947-2 / rated value 1.6 W Operational current 1.6 A	degree of pollution	3		
insulation voltage (Ui) / at AC / rated value 440 V Supply voltage 400 V operating voltage 400 V • at AC / rated value 400 V operating voltage 400 V • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 240 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 supply voltage frequency / rated value 50 Hz Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity current 10 kA • according to EC 60947-2 / rated value 10 kA • according to EC 60947-2 / rated value 15 kA Dissipation 1.6 W operating state / per pole 1.6 W	Voltage			
Supply voltage 400 V operating voltage 400 V • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 240 V • at DC / rated value / 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 125 V Supply voltage frequency / rated value 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range switching capacity 10 kA • according to IEC 60947-2 / rated value 10 kA • according to IEC 60947-2 / rated value 10 kA • according to IEC 60947-2 / rated value 1.6 W current • at 30 °C / rated value 1.6 A	type of voltage / of the operating voltage	AC/DC		
supply voltage / at AC / rated value 400 V operating voltage e at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum 240 V e at DC / rated value / maximum 60 V e at DC / rated value / maximum 60 V e at DC / z-channel / according to UL 489 and CSA 60 V C22.2 No. 5-02 / maximum 60 V e at DC / 2-channel / according to UL 489 and CSA 125 V C22.2 No. 5-02 / maximum 50 Hz Protection class Forection class IP protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity switching capacity current e according to EN 60898 / rated value 10 kA e according to IEC 60947-2 / rated value 15 kA Dissipation 1.6 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.6 A	insulation voltage (Ui) / at AC / rated value	440 V		
operating voltage at AC / according to UL 489 and CSA C22.2 No. 5- 02 / 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 at DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum bt DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum bt DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum bt DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum bt DC / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum bt D / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum bt D / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum bt D / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum bt D / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum bt D / 2-channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum bt C / 2-channel / according to UL 489 and CSA Protection class IP IP20, with connected conductors, IP 40 in the handle range bt AC / according to EN 60898 / rated value to KA according to IEC 60947-2 / rated value to KA according to IEC conset / at AC / in hot operating state / per pole to W to W to A to S °C / rated value to	Supply voltage			
 at AC / according to UL 489 and CSA C22.2 No. 5- 02 / 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 protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current according to EN 60898 / rated value to kA according to IEC 60947-2 / rated value to kA berrating state / per pole Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current at 30 °C / rated value to A at 30 °C / rated value A 	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 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 IP IP20, with connected conductors, IP 40 in the handle range switching capacity switching capacity current • according to EN 60898 / rated value 10 kA • according to IEC 60947-2 / rated value 10 kA • according to IEC 60947-2 / rated value 1.6 W operational current 1.6 A	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 switching capacity current • according to EN 60898 / rated value 10 kA • according to IEC 60947-2 / rated value 15 kA Dissipation 1.6 W operational current 1.6 A	5	240 V		
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 125 V supply voltage frequency / rated value 50 Hz Protection class protection class IP protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity switching capacity switching capacity current 10 kA • according to EN 60898 / rated value 10 kA • according to IEC 60947-2 / rated value 15 kA Dissipation 1.6 W current • at 30 °C / rated value • at 30 °C / rated value 1.6 A	 at DC / rated value / maximum 	60 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 Switching capacity IP20, with connected conductors, IP 40 in the handle range Switching capacity current • according to EN 60898 / rated value • according to IEC 60947-2 / rated value 10 kA • according to IEC 60947-2 / rated value 15 kA Dissipation 1.6 W operational current • at 30 °C / rated value • at 30 °C / rated value 1.6 A		60 V		
Protection class IP20, with connected conductors, IP 40 in the handle range Switching capacity IP20, with connected conductors, IP 40 in the handle range Switching 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 Current • at 30 °C / rated value 1.6 A		125 V		
protection class IP IP20, with connected conductors, IP 40 in the handle range Switching 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 Current • at 30 °C / rated value • at 30 °C / rated value 1.6 A	supply voltage frequency / rated value	50 Hz		
Switching capacity switching capacity current • according to EN 60898 / rated value • according to IEC 60947-2 / 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 Current operational current • at 30 °C / rated value 1.6 A	Protection class			
switching capacity current according to EN 60898 / rated value 10 kA • according to IEC 60947-2 / rated value 15 kA Dissipation 15 kA power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.6 W Current operational current • at 30 °C / rated value 1.6 A	protection class IP	IP20, with connected conductors, IP 40 in the handle range		
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e 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 Current operational current e at 30 °C / rated value 1.6 A	switching capacity current			
Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current • at 30 °C / rated value 1.6 A	 according to EN 60898 / rated value 	10 kA		
power loss [W] / for rated value of the current / at AC / in 1.6 W hot operating state / per pole 1.6 W Current operational current • at 30 °C / rated value 1.6 A	 according to IEC 60947-2 / rated value 	15 kA		
hot operating state / per pole Current operational current	Dissipation			
operational current • at 30 °C / rated value 1.6 A		1.6 W		
• at 30 °C / rated value 1.6 A	Current			
	operational current			
• at 40 °C / rated value 1.6 A	 at 30 °C / rated value 	1.6 A		
	 at 40 °C / rated value 	1.6 A		

	4.5.4	
• at 45 °C / rated value	1.5 A	
 at 50 °C / rated value 	1.5 A	
• at 55 °C / rated value	1.4 A	
• at 60 °C / rated value	1.3 A	
at AC / rated value	1.6 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 / 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 /	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 mm ²	
• 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	18 mm	
depth	70 mm	
installation depth	70 mm	
number of modular width units	1	
fastening method	on standard mounting rail	
mounting position	any	
net weight	172 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

	<u>Confirmation</u>			EHC	CE EG-Konf.
Declaration of Conformity	Test Certificates		other		
UK CA	<u>Miscellaneous</u>	Special Test Certific- ate	<u>Miscellaneous</u>		

Further information

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