## **SIEMENS**

Data sheet 5SJ4213-7HG42



Circuit breaker 10kA, 2-pole, C, 13A according to UL 489-480Y/277V

product brand name product designation design of the product designation design of the product Miniature circuit-breakers Miniature circuit-breaker SSJ4  General technical data  number of poles design of pole 2P tripping characteristic class CC mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 2042 according to IEC 750 overvoltage category 3	Model	
design of the product  General technical data  number of poles design of pole tripping characteristic class mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category degree of poliution 3  Voltage  insulation voltage (Ui) at AC rated value  * at C rated value * at AC rated value * at AC rated value * 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  * 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 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to EU 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to EU 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to EU 5-channel according to	product brand name	SENTRON
General technical data  number of poles design of pole tripping characteristic class mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 204.2 according to IEC 750 overvoltage category degree of pollution  Voltage  supply voltage supply voltage  **at AC rated value** **at AC rated value** **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  **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  **at DC 3-03 maximum  **at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  **at DC 3-04 maximum  **at DC 3-05 maximum  **at DC 3-0	product designation	Miniature circuit breakers
number of poles design of pole to design of pole tripping characteristic class C C mechanical service life (operating cycles) typical 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 3  Voltage insulation voltage (UI) at AC rated value 440 V  Supply voltage supply voltage supply voltage frequency operating voltage of the supply voltage frequency operating voltage • at AC rated value AV Supply voltage of the supply voltage frequency 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 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 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	design of the product	Miniature circuit-breaker 5SJ4
design of pole tripping characteristic class mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category degree of pollution 3  Voltage supply voltage  • at AC rated value • at DC rated value • at DC rated value maximum • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC shople channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC companies coording to UL 489 and CSA C22.2 No. 5-02 maximum • at DC companies coording to UL 489 and CSA C22.2 No. 5-02 maximum • at DC companies coording to UL 489 and CSA C22.2 No. 5-02 maximum • at DC companies coording to UL 489 and CSA C22.2 No. 5-02 maximum • at DC companies coording to UL 489 and CSA C22.2 No. 5-02 maximum  50 Hz  Protection class  protection class IP  IP20, with connected conductors, IP 40 in the handle range  Switching capacity  switching capacity  switching capacity current • according to EC 60947-2 rated value  10 KA • according to EC 60947-2 rated value	General technical data	
tripping characteristic class mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category degree of pollution  Voltage  supply voltage  • at AC rated value • at DC rated value • at DC rated value maximum • at DC stangle 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  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C3-channel according to UL 489 and CSA C4-channel according to UL 489 and CSA C5-channel according to UL 48	number of poles	2
mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category 3 degree of pollution 3  Voltage insulation voltage (Ui) at AC rated value 440 V  Supply voltage supply voltage  supply voltage  • at AC rated value 400 V at AC rated value 5060 Hz  • at C rated value 5060 Hz  • at C rated value 60 V value range of the supply voltage frequency operating voltage  • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • 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 • 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 • 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 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 5-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 5-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 5-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 6-00 Table	design of pole	2P
installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category degree of pollution  Voltage  supply voltage  supply voltage  • at AC rated value • at DC rated value • 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 rated value 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  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C3-channel according to	tripping characteristic class	C
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category 3 3 degree of pollution 3 3 Voltage  insulation voltage (Ui) at AC rated value 440 V  Supply voltage  supply voltage  • at AC rated value 400 V • at DC rated value 50/60 Hz 60 V voltage of the supply voltage frequency operating voltage  • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC rated value maximum 60 V • 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 • 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 • 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 • 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 • 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 • 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 • 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 • at DC 2-channel according to UL 489 and CSA C22.2 No.5-02 maximum • at DC 2-channel	mechanical service life (operating cycles) typical	10 000
according to IEC 204-2 according to IEC 750 overvoltage category 3 degree of pollution 3  Voltage insulation voltage (Ui) at AC rated value 440 V  Supply voltage supply voltage supply voltage  ***at AC rated value 60 V **at DC rated value 50/660 Hz operating voltage  ***at AC according to UL 489 and CSA C22.2 No. 5-02 maximum  ***at AC 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  **C22.2 No. 5-02 maximum 125 V  **Supply voltage frequency rated value 150 Hz  **Protection class IP IP20, with connected conductors, IP 40 in the handle range 15 kA  **Dissipation 15 kA  **Dissipation 15 kA  **Dissipation 16 EC 60947-2 rated value 15 kA  **Dissipation 17 power loss [W] for rated value of the current at AC in hot operating state per pole  **Current**	installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
degree of pollution  Voltage  insulation voltage (Ui) at AC rated value  440 V  Supply voltage  supply voltage  • at AC rated value • at DC rated value • at DC rated value • 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 supply voltage frequency rated value  50 Hz  Protection class  protection class IP  Switching capacity  switching capacity current • according to EN 60898 rated value  10 kA  15 kA  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current		F
Insulation voltage (Ui) at AC rated value  Supply voltage  supply voltage  • at AC rated value • at DC rated value • at DC rated value • at Cacording to UL 489 and CSA C22.2 No. 5-02 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 Switching capacity switching capacity switching capacity current • according to EN 60898 rated value 10 kA • according to IEC 60947-2 rated value  Tisk A  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	overvoltage category	
insulation voltage (Ui) at AC rated value  Supply voltage  supply voltage  • at AC rated value • at DC rated value • at Cacording to UL 489 and CSA C22.2 No. 5-02 maximum • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 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 supply voltage frequency rated value  Protection class  protection class IP  Switching capacity  switching capacity current • according to EN 60898 rated value • according to IEC 60947-2 rated value  10 kA • according to Trated value of the current at AC in hot operating state per pole  Current	degree of pollution	3
supply voltage  • at AC rated value • at DC rated value • at DC rated value  • 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  Protection class  protection class IP  IP20, with connected conductors, IP 40 in the handle range  Switching capacity switching capacity current • according to IEC 60947-2 rated value 10 kA • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	Voltage	
supply voltage  • at AC rated value • at DC rated value • at DC rated value value range of the supply voltage frequency 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 supply voltage frequency rated value  Protection class protection class protection class IP  Switching capacity switching capacity switching capacity current • according to EN 60898 rated value • according to EN 60898 rated value  10 kA • according to EC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	insulation voltage (Ui) at AC rated value	440 V
at AC rated value at DC rated value at DC rated value value range of the supply voltage frequency 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  supply voltage frequency rated value  Protection class protection class protection class IP  IP20, with connected conductors, IP 40 in the handle range  Switching capacity switching capacity switching capacity current  according to IEC 60947-2 rated value  10 kA  according to IEC 60947-2 rated value  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	Supply voltage	
at DC rated value value range of the supply voltage frequency 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  supply voltage frequency rated value  protection class protection class IP  IP20, with connected conductors, IP 40 in the handle range  switching capacity  switching capacity current  according to EN 60898 rated value  according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	supply voltage	
value range of the supply voltage frequency 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  supply voltage frequency rated value  Protection class  protection class IP  Switching capacity  switching capacity current • according to EN 60898 rated value • according to EN 60898 rated value  10 kA • according to EN 60898 rated value  15 kA  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	<ul> <li>at AC rated value</li> </ul>	400 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  supply voltage frequency rated value  Protection class  protection class IP  IP20, with connected conductors, IP 40 in the handle range  Switching capacity  switching capacity current  • according to EN 60898 rated value  • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current		60 V
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  supply voltage frequency rated value  Protection class  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	value range of the supply voltage frequency	50/60 Hz
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  supply voltage frequency rated value  Protection class  protection class IP  Switching capacity  switching capacity  switching capacity current  • according to EN 60898 rated value  10 kA  • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current		
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  supply voltage frequency rated value  Protection class  protection class IP  IP20, with connected conductors, IP 40 in the handle range  Switching capacity  switching capacity current  according to EN 60898 rated value  according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current		277 V
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  Protection class  protection class IP  IP20, with connected conductors, IP 40 in the handle range  Switching capacity  switching capacity current  • according to EN 60898 rated value • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	<ul> <li>at DC rated value maximum</li> </ul>	60 V
C22.2 No. 5-02 maximum supply voltage frequency rated value  Protection class  protection class IP IP20, with connected conductors, IP 40 in the handle range  Switching capacity  switching capacity current  • according to EN 60898 rated value • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current		60 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 • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	· · · · · · · · · · · · · · · · · · ·	125 V
protection class IP  Switching capacity  switching capacity current  • according to EN 60898 rated value • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	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  15 kA  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	Protection class	
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	protection class IP	IP20, with connected conductors, IP 40 in the handle range
<ul> <li>according to EN 60898 rated value</li> <li>according to IEC 60947-2 rated value</li> <li>bissipation</li> <li>power loss [W] for rated value of the current at AC in hot operating state per pole</li> <li>Current</li> </ul>	Switching capacity	
according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current  15 kA  1.6 W	switching capacity current	
Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current  1.6 W	<ul> <li>according to EN 60898 rated value</li> </ul>	10 kA
power loss [W] for rated value of the current at AC in hot operating state per pole  Current  1.6 W	<ul> <li>according to IEC 60947-2 rated value</li> </ul>	15 kA
operating state per pole  Current	Dissipation	
		1.6 W
operational current	Current	
	operational current	

<ul> <li>at 30 °C rated value</li> </ul>	13 A	
<ul> <li>at 40 °C rated value</li> </ul>	13 A	
<ul> <li>at 45 °C rated value</li> </ul>	12.6 A	
<ul> <li>at 50 °C rated value</li> </ul>	12.2 A	
<ul> <li>at 55 °C rated value</li> </ul>	11.8 A	
<ul> <li>at 60 °C rated value</li> </ul>	11.4 A	
at AC rated value	13 A	
Main circuit		
type of voltage supply at AC according to UL 489 and	480/277	
CSA C22.2 No. 5-02	400/211	
suitability for operation	Mechanical engineering / industry	
Product details		
product component	No	
tunnel terminals top	No	
tunnel terminals bottom	No	
combined terminal top	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	10 kA	
according to UL 1077 and CSA C22.2 No.235		
Connections		
Connections  connectable conductor cross-section finely stranded with core end processing		
connectable conductor cross-section finely stranded with	0.75 mm <sup>2</sup>	
connectable conductor cross-section finely stranded with core end processing	0.75 mm <sup>2</sup> 25 mm <sup>2</sup>	
connectable conductor cross-section finely stranded with core end processing  • minimum		
connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum	25 mm²	
connectable conductor cross-section finely stranded with core end processing	25 mm² 3.5 N·m	
connectable conductor cross-section finely stranded with core end processing	25 mm² 3.5 N·m Any	
connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design height	25 mm² 3.5 N·m Any	
connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design height width	25 mm² 3.5 N·m Any  121 mm 36 mm	
connectable conductor cross-section finely stranded with core end processing  • 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  121 mm 36 mm 70 mm	
connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth	25 mm <sup>2</sup> 3.5 N·m Any  121 mm 36 mm 70 mm 70 mm	
connectable conductor cross-section finely stranded with core end processing	25 mm <sup>2</sup> 3.5 N·m Any  121 mm 36 mm 70 mm 70 mm 2	
connectable conductor cross-section finely stranded with core end processing  • 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 36 mm 70 mm 70 mm 2 on standard mounting rail	
connectable conductor cross-section finely stranded with core end processing  • 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 36 mm 70 mm 2 on standard mounting rail any	
connectable conductor cross-section finely stranded with core end processing  • 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 36 mm 70 mm 70 mm 2 on standard mounting rail	
connectable conductor cross-section finely stranded with core end processing  • 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	25 mm² 3.5 N·m Any  121 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 339 g	
connectable conductor cross-section finely stranded with core end processing  • 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 36 mm 70 mm 70 mm 2 on standard mounting rail any 339 g  50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)	
connectable conductor cross-section finely stranded with core end processing  • 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 IEC 60068-2-6	25 mm² 3.5 N·m Any  121 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 339 g	
connectable conductor cross-section finely stranded with core end processing  • 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 36 mm 70 mm 70 mm 2 on standard mounting rail any 339 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	
connectable conductor cross-section finely stranded with core end processing  • 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 IEC 60068-2-6	25 mm² 3.5 N·m Any  121 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 339 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	
connectable conductor cross-section finely stranded with core end processing  • 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 36 mm 70 mm 70 mm 2 on standard mounting rail any 339 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	
connectable conductor cross-section finely stranded with core end processing  • 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 according to IEC 60068-2-6 ambient temperature during operation  • minimum	25 mm² 3.5 N·m Any  121 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 339 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	
connectable conductor cross-section finely stranded with core end processing  • 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 according to IEC 60068-2-6 ambient temperature during operation  • minimum  • maximum	25 mm² 3.5 N·m Any  121 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 339 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	
connectable conductor cross-section finely stranded with core end processing  • 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  • minimum  • maximum ambient temperature during operation	25 mm² 3.5 N·m Any  121 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 339 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	
connectable conductor cross-section finely stranded with core end processing  • 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  • minimum  • maximum ambient temperature during operation ambient temperature during storage	25 mm² 3.5 N·m Any  121 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 339 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	
connectable conductor cross-section finely stranded with core end processing  • 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  • minimum  • maximum  ambient temperature during storage  • minimum  • maximum  • maximum	25 mm² 3.5 N·m Any  121 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 339 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 -40 °C	Declaration of
connectable conductor cross-section finely stranded with core end processing  • 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  • minimum  • maximum ambient temperature during storage  • minimum	25 mm² 3.5 N·m Any  121 mm 36 mm 70 mm 70 mm 2 on standard mounting rail any 339 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 -40 °C	Declaration of Conformity

Confirmation











**Declaration of Conformity** 

**Test Certificates** 

other



Special Test Certificate

Confirmation

**Miscellaneous** 

Environmental Confirmations

## 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=5SJ4213-7HG42

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4213-7HG42

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4213-7HG42

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications





