SIEMENS

Data sheet

5SJ4203-7HG41



Miniature circuit breaker 240 V 14kA, 2-pole, C, 3 A, D=70 mm according to UL 489 $\,$

| product brand name SENTRON product designation Miniature circuit breakers design of the product Miniature circuit-breakers 5J.4 General technical data 2 number of poles 2 design of pole 2P 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 a according to DIC 204.2 according to IEC 750 3 overvoltage category 3 degree of polition 3 Voltage 440 V Supply voltage for acreting voltage 440 V supply voltage of the supply voltage frequency 5060 Hz operating voltage 440 V supply voltage of the supply voltage frequency 5060 Hz operating voltage 410 V supply voltage thannel according to UL 489 and CSA 60 V c.22 No. 5-20 maximum 60 V e.at CC achannel according to UL 489 and CSA 125 V | Model | | |
|--|--|--|--|
| design of the product Miniature circuit-breaker 5SJ4 General technical data Image: Constraint of pole 2 number of poles 2P 2P tripping characteristic class C C mechanical service life (switching cycles) typical 10 000 suitable for environment B (immunity to interference not applicable) reference code according to DIN 40719 extended according to IEC 2042 according to IEC 2043 according to IEC 2040 Suitable for environment B (immunity to interference not applicable) reference code according to IEC 2043 according to IEC 2040 Suitable for environment B (immunity to interference not applicable) overvoltage category 3 degree of pollution 3 voltage of the operating voltage AC/DC ansultation voltage (Ui) at AC rated value 400 V value range of the supply voltage frequency 50/60 Hz operating voltage and CSA C22.2 No. 5-02 240 V maximum 60 V at AC according to UL 489 and CSA GV V at AC according to UL 489 and CSA GV V at AC according to UL 489 and CSA GV V at AC according to UL 489 and CSA GV V at AC according to UL 489 and CSA GV V at AC according to UL 489 and CSA | product brand name | SENTRON | |
| General technical data 2 number of poles 2 design of pole 2P tipping 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 EC 750 Suitable for environment B (immunity to interference not applicable) voltage to UN 40719 extended F 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 value range of the supply voltage frequency 50/60 Hz operating voltage • at AC according to UL 489 and CSA 224 V maximum 60 V 60 V • at DC rated value maximum 60 V 60 V • at DC 2-channel according to UL 489 and CSA 125 V c22: No. 5-02 maximum 125 V supply voltage frequency rated value 50 Hz Protection class IP IP20, with connected conductors, IP | product designation | Miniature circuit breakers | |
| number of poles 2 design of pole 2P 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 Suitable for environment B (immunity to interference not applicable) reference code according to DIN 40719 extended 3 design of pole 40 V subation voltage of the operating voltage AC/DC insulation voltage (U) at AC rated value 400 V supply voltage supply voltage e at AC according to UL 489 and CSA C22.2 No. 5-02 240 V maximum e at CC according to UL 489 and CSA 60 V e at DC single channel according to UL 489 and CSA 60 V c 22.2 No. 5-02 maximum 50 Hz e at DC single channel according to UL 489 and CSA 125 V c 22.2 No. 5-02 maximum 50 Hz e according to EN 60888 rated value 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current e according | design of the product | Miniature circuit-breaker 5SJ4 | |
| design of pole2Ptripping characteristic classCmechanical service life (switching cycles) typical10 000installation environment regarding EMCSuitable for environment B (immunity to interference not applicable)reference code according to IDL 40719 extendedSuitable for environment B (immunity to interference not applicable)reference code according to IEC 204-2 according to IEC 7503overvoltage category3degree of pollution3VoltageVoltage of the operating voltageAC/DCinsulation voltage of the operating voltagesupply voltage at AC rated value440 VSupply voltage at AC rated valuevalue range of the supply voltage frequency50/60 Hzoperating voltage60 Ve at DC according to UL 489 and CSA60 Vc22.2 No. 5-02 maximum60 Ve at DC single channel according to UL 489 and CSA125 Vc22.2 No. 5-02 maximum50 HzProtection classprotection class IPIP20, with connected conductors, IP 40 in the handle rangeswitching capacity10 kAe according to EN 60898 rated value10 kAe according to EN 608 | General technical data | | |
| 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 Suitable for environment B (immunity to interference not applicable) reference code according to IEC 750 3 overvoltage category 3 degree of pollution 3 Voltage AC/DC insulation voltage (U) at AC rated value 400 V Supply voltage at AC rated value 400 V supply voltage of the uperating voltage frequency 50/80 Hz operating voltage 60 V e at AC caccording to UL 489 and CSA C22.2 No. 5-02 240 V maximum 60 V e at DC single channel according to UL 489 and CSA 60 V C22.2 No. 5-02 maximum 50 Hz e DC 2-channel according to UL 489 and CSA 60 V C22.2 No. 5-02 maximum 50 Hz protection class IP IP20, with connected conductors, IP 40 in the handle range switching capacity 10 kA e according to EK 60898 rated value 10 kA e according to EK 60898 rate | number of poles | 2 | |
| mechanical service life (switching cycles) typical installation environment regarding ENC 10 000 reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 Suitable for environment B (immunity to interference not applicable) reference code according to IEC 204-2 according to IEC 750 3 overvoltage category 3 degree of pollution 3 Voltage 400 V supply voltage at AC rated value 400 V supply voltage at AC rated value 400 V value range of the supply voltage frequency operating voltage 50/60 Hz • at AC according to UL 489 and CSA C22.2 No. 5-02 240 V 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 50 Hz • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum 125 V • at DC 2-chanel 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 current 0 KA • according to IEC 60947-2 rated value 15 kA Dissipation 1.8 W power loss [W] for rated value of the current a | design of pole | 2P | |
| installation environment regarding EMC Suitable for environment B (immunity to interference not applicable) reference code according to DIN 40719 extended F according to EC 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 rated value 400 V supply voltage of the operating voltage frequency 50/60 Hz operating voltage et AC according to UL 489 and CSA C22.2 No. 5-02 maximum 60 V et at DC rated value maximum 60 V et at DC single channel according to UL 489 and CSA 225 V C22.2 No. 5-02 maximum 50 Hz et 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 eacording to IEC 60947-2 rated value eacording to IEC 60947-2 rated value 15 kA Dissipation 1.8 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W | tripping characteristic class | C | |
| 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 type of voltage of the operating voltage insulation voltage (Ui) at AC rated value 400 V Supply voltage at AC rated value value range of the supply voltage frequency 50/60 Hz operating voltage 60 V e at AC according to UL 489 and CSA C22.2 No. 5-02 240 V maximum 60 V e at DC rated value maximum 60 V e at DC single channel according to UL 489 and CSA 60 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 eaccording to IEC 60947-2 rated value 10 kA eaccording to IEC 60947-2 rated value 15 kA Dissipation 1.8 W | mechanical service life (switching cycles) typical | 10 000 | |
| 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 supply voltage at AC rated value 400 V value range of the supply voltage frequency 50/60 Hz operating voltage eat AC according to UL 489 and CSA C22.2 No. 5-02 maximum 60 V e at DC rated value maximum 60 V e at DC single channel according to UL 489 and CSA 60 V C22.2 No. 5-02 maximum 60 V e at DC schannel according to UL 489 and CSA 60 V C22.2 No. 5-02 maximum 50 Hz Protection class 125 V protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current 10 kA e according to IEC 60947-2 rated value 15 kA Dissipation 1.8 W power loss [W] for rated value of the current at AC in hot operating state per pole | installation environment regarding EMC | Suitable for environment B (immunity to interference not applicable) | |
| degree of pollution 3 Voltage AC/DC type of voltage of the operating voltage insulation voltage (UI) at AC rated value AC/DC Supply voltage 440 V Supply voltage at AC rated value 400 V supply voltage at AC rated value 400 V operating voltage at AC rated value 400 V • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum 50/60 Hz • 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 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 10 kA • according to EN 60898 rated value 10 kA • according to IEC 60947-2 rated value 15 kA Dissipation 1.8 W power loss [M] for rated value of the current at AC in hot operating state per pole 1.8 W | | | |
| Voltage Vype of voltage of the operating voltage insulation voltage (Ui) at AC rated value AC/DC Supply voltage 440 V Supply voltage 50/60 Hz operating voltage 50/60 Hz operating voltage 60 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 C22.2 No. 5-02 maximum 50 Hz Protection class 125 V 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 10 kA • according to EC 60947-2 rated value 10 kA • according to IEC 60947-2 rated value 1.8 W | overvoltage category | | |
| type of voltage of the operating voltage insulation voltage (Ui) at AC rated value AC/DC 440 V Supply voltage 440 V Supply voltage 50/60 Hz value range of the supply voltage frequency 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 C22.2 No. 5-02 maximum 50 Hz Protection class 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 15 KA Dissipation 1.8 W | degree of pollution | 3 | |
| insulation voltage (Ui) at AC rated value 440 V Supply voltage 400 V supply voltage at AC rated value 400 V value range of the supply voltage frequency 50/60 Hz operating voltage 240 V • at AC according to UL 489 and CSA C22.2 No. 5-02 240 V maximum 60 V • at DC rated value maximum 60 V • at DC rated value maximum 60 V • at DC schanel according to UL 489 and CSA 60 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 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 15 kA Dissipation 1.8 W | Voltage | | |
| Supply voltage supply voltage at AC rated value 400 V value range of the supply voltage frequency 50/60 Hz 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 acted value maximum 60 V • at DC single channel according to UL 489 and CSA 60 V C22.2 No. 5-02 maximum 60 V • at DC 2-channel according to UL 489 and CSA 60 V C22.2 No. 5-02 maximum 50 Hz Protection class 125 V protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity 10 kA • according to EN 60898 rated value 10 kA • according to IEC 60947-2 rated value 15 kA Dissipation 1.8 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W | type of voltage of the operating voltage | AC/DC | |
| supply voltage at AC rated value 400 V value range of the supply voltage frequency 50/60 Hz operating voltage 60 V • at AC according to UL 489 and CSA C22.2 No. 5-02 240 V maximum 61 V • at DC rated value maximum 60 V • at DC single channel according to UL 489 and CSA 60 V 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 supply voltage frequency rated value 50 Hz Protection class 125 V protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity current • according to EN 60898 rated value • according to EN 60898 rated value 10 kA • according to IEC 60947-2 rated value 15 kA Dissipation 1.8 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W | insulation voltage (Ui) at AC rated value | 440 V | |
| value range of the supply voltage frequency operating voltage 50/60 Hz • 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 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 50 Hz Protection class IP IP20, with connected conductors, IP 40 in the handle range Switching capacity 10 kA • according to EN 60898 rated value 10 kA • according to IEC 60947-2 rated value 15 kA Dissipation 1.8 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W | Supply voltage | | |
| operating voltage at AC according to UL 489 and CSA C22.2 No. 5-02 240 V aximum 60 V • at DC rated value maximum 60 V • at DC single channel according to UL 489 and CSA 60 V 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 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 15 kA Dissipation 1.8 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W | supply voltage at AC rated value | 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 switching capacity current • according to IEC 60947-2 rated value 10 kA • according to IEC 60947-2 rated value 15 kA Dissipation 1.8 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W | value range of the supply voltage frequency | 50/60 Hz | |
| 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 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 IEC 60947-2 rated value • according to IEC 60947-2 rated value 10 kA • power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W Current 1.8 W | operating voltage | | |
| • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum60 V• at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum125 Vsupply voltage frequency rated value50 HzProtection classprotection class IPIP20, with connected conductors, IP 40 in the handle rangeSwitching capacityswitching capacity current • according to EN 60898 rated value10 kA• according to IEC 60947-2 rated value15 kADissipationpower loss [W] for rated value of the current at AC in hot operating state per pole1.8 W | | 240 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 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 10 kA • according to IEC 60947-2 rated value 15 kA Dissipation 1.8 W operating state per pole 1.8 W | 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 IP20, with connected conductors, IP 40 in the handle range Switching capacity current 0 kA • according to EN 60898 rated value 10 kA • according to IEC 60947-2 rated value 15 kA Dissipation 1.8 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W | | 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 1.8 W | | 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 1.8 W | 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 | Protection class | | |
| switching capacity current 10 kA • according to EN 60898 rated value 10 kA • according to IEC 60947-2 rated value 15 kA Dissipation 10 kA power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W Current 1.8 W | protection class IP | IP20, with connected conductors, IP 40 in the handle range | |
| 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 Current | Switching capacity | | |
| | switching capacity current | | |
| Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Current | according to EN 60898 rated value | 10 kA | |
| power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W Current 1.8 W | according to IEC 60947-2 rated value | 15 kA | |
| operating state per pole Current | Dissipation | | |
| | | 1.8 W | |
| operational current | Current | | |
| | operational current | | |
| • at 30 °C rated value 3 A | at 30 °C rated value | 3 A | |

| reference code according to EN 61346-2 according to IEC 81346-2 General Product Approval | F F | Declaration of Conformity |
|--|--|------------------------------|
| reference code • according to EN 61346-2 | | |
| reference code | F | |
| | | |
| Certificates | | |
| | 10.0 | |
| ● minimum ● maximum | -40 °C 75 °C | |
| ambient temperature during storage | -40 °C | |
| ambient temperature during operation | max. 95% humidity | |
| • maximum | -25 °C | |
| • minimum | 55 °C | |
| ambient temperature during operation | | |
| vibration resistance according to IEC 60068-2-6 | ±1 mm at 5 to 25 Hz; 50 m/s ² at 25 to 150 Hz | |
| vibration resistance | 50 m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec) | |
| Environmental conditions | | |
| net weight | 326 g | |
| mounting position | any | |
| fastening method | on standard mounting rail | |
| number of modular width units | 2 | |
| depth installation depth | 70 mm 70 mm | |
| width | 36 mm | |
| height | 110 mm | |
| Mechanical Design | | |
| position of power supply cord | Any | |
| tightening torque with screw-type terminals maximum | 3.5 N·m | |
| • maximum | 25 mm² | |
| • minimum | 0.75 mm ² | |
| core end processing | | |
| connectable conductor cross-section finely stranded with | | |
| Connections | | |
| breaking capacity short-circuit current (Icn) at AC according to UL 1077 and CSA C22.2 No.235 | 14 kA | |
| Short circuit | 4414 | |
| product function note | Terminal tightening torque for Cu, 60/75°C; 3.5Nm/ | 311D.IN |
| Product function | | 04lh in |
| product extension installable supplementary devices | | |
| silicon-free product extension installable supplementary devices | Yes Yes | |
| • sealable | Yes | |
| halogen-free | Yes | |
| product feature | | |
| neutral conductor switching | No | |
| combined terminal bottom | Yes | |
| combined terminal top | Yes | |
| tunnel terminals bottom | No | |
| tunnel terminals top | No | |
| product component | | |
| Product details | | |
| suitability for operation | Mechanical engineering / industry | |
| type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02 | 240 | |
| Main circuit | 0.40 | _ |
| at AC rated value | 3 A | |
| • at 60 °C rated value | 2.6 A | |
| • at 55 °C rated value | 2.7 A | |
| at 50 °C rated value | 2.8 A | |
| at 45 °C rated value | 2.9 A | |
| • at 40 °C rated value | 3 A | |



Further information

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