



Miniature circuit breaker 240 V 14kA, 3-pole, C, 20 A, D=70 mm according to UL 489

| Model | |
|--|--|
| product brand name | SENTRON |
| product designation | Miniature circuit breakers |
| design of the product | Miniature circuit-breaker 5SJ4 |
| General technical data | |
| number of poles | 3 |
| design of pole | 3P |
| tripping characteristic class | C |
| mechanical service life (operating cycles) typical | 10 000 |
| installation environment regarding EMC | Suitable for environment B (immunity to interference not applicable) |
| reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 | F |
| overvoltage category | 3 |
| degree of pollution | 3 |
| Voltage | |
| insulation voltage (Ui) at AC rated value | 440 V |
| Supply voltage | |
| supply voltage | |
| • at AC rated value | 400 V |
| • at DC rated value | 60 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 | 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 | |
| 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 | 2.4 W |
| Current | |
| operational current | |

| | |
|---|--|
| <ul style="list-style-type: none"> • at 30 °C rated value • at 40 °C rated value • at 45 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value • at AC rated value | 20 A 20 A 19.4 A 19 A 18.5 A 18 A 20 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 | |
| <ul style="list-style-type: none"> • tunnel terminals top • tunnel terminals bottom • combined terminal top • combined terminal bottom • neutral conductor switching | No No Yes Yes No |
| product feature | |
| <ul style="list-style-type: none"> • halogen-free • sealable • silicon-free | Yes Yes 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 (I _{cn}) at AC according to UL 1077 and CSA C22.2 No.235 | 14 kA |
| Connections | |
| connectable conductor cross-section finely stranded with core end processing | |
| <ul style="list-style-type: none"> • minimum • maximum | 0.75 mm ² 25 mm ² |
| tightening torque with screw-type terminals maximum | 3.5 N·m |
| position of power supply cord | Any |
| Mechanical Design | |
| height | 110 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 | 488 g |
| Environmental conditions | |
| vibration resistance | 50 m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec) |
| vibration resistance according to IEC 60068-2-6 | ±1 mm at 5 to 25 Hz; 50 m/s ² at 25 to 150 Hz |
| ambient temperature during operation | |
| <ul style="list-style-type: none"> • minimum • maximum | 55 °C -25 °C |
| ambient temperature during operation | max. 95% humidity |
| ambient temperature during storage | |
| <ul style="list-style-type: none"> • minimum • maximum | -40 °C 75 °C |
| General Product Approval | |
| Declaration of Conformity | |



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