SIEMENS

Data sheet

5SY4206-7



Miniature circuit breaker 400 V 10kA, 2-pole, C, 6 A, D=70 mm

| Model | | | | | |
|--|-----------------------------------|--|--|--|--|
| product brand name | SENTRON | | | | |
| product designation | Miniature circuit breaker | | | | |
| General technical data | | | | | |
| number of poles | 2 | | | | |
| design of pole | 2P | | | | |
| tripping characteristic class | C | | | | |
| mechanical service life (operating cycles) typical | 10 000 | | | | |
| overvoltage category | III | | | | |
| degree of pollution | 3 | | | | |
| Voltage | | | | | |
| type of voltage of the operating voltage | AC | | | | |
| insulation voltage (Ui) | | | | | |
| with single-phase operation at AC rated value | 440 V | | | | |
| with multi-phase operation at AC rated value | 440 V | | | | |
| supply voltage with single-phase operation at AC rated value | 230 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 DC rated value maximum | 72 V | | | | |
| Protection class | | | | | |
| protection class IP | IP20, with connected conductors | | | | |
| Switching capacity | | | | | |
| switching capacity current | | | | | |
| at DC according to IEC 60947-2 rated value | 15 kA | | | | |
| according to EN 60898 rated value | 10 kA | | | | |
| according to IEC 60947-2 rated value | 35 kA | | | | |
| energy limitation class | 3 | | | | |
| Dissipation | | | | | |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 1.6 W | | | | |
| suitability for operation | Mechanical engineering / industry | | | | |
| Product details | | | | | |
| product component | | | | | |
| combined terminal top | Yes | | | | |
| combined terminal bottom | Yes | | | | |
| neutral conductor switching | No | | | | |
| product feature | | | | | |

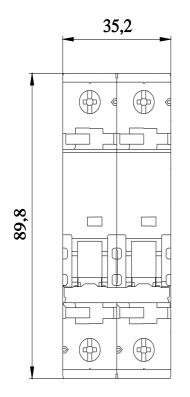
| properties for main switches in accordance with EN 60204-1 | Yes | | |
|--|--|--|--|
| halogen-free | Yes | | |
| • sealable | Yes | | |
| • silicon-free | Yes | | |
| product extension installable supplementary devices | Yes | | |
| Short circuit | | | |
| short-circuit current breaking capacity (Icn) | | | |
| at AC according to UL 1077 and CSA C22.2 No.235 | 5 kA | | |
| , and the second s | | | |
| Connections | | | |
| connectable conductor cross-section solid | | | |
| • minimum | 0.75 mm ² | | |
| • maximum | 35 mm² | | |
| connectable conductor cross-section stranded | | | |
| • minimum | 0.75 mm ² | | |
| • maximum | 35 mm² | | |
| connectable conductor cross-section finely stranded with core end processing | | | |
| • minimum | 0.75 mm ² | | |
| • maximum | 25 mm ² | | |
| AWG number as coded connectable conductor cross section | | | |
| • minimum | 18 | | |
| • maximum | 4 | | |
| tightening torque [lbf·in] with screw-type terminals | | | |
| • minimum | 22 lbf·in | | |
| • maximum | 31 lbf·in | | |
| tightening torque with screw-type terminals | | | |
| • minimum | 2.5 N·m | | |
| • maximum | 3.5 N·m | | |
| position of power supply cord | Any | | |
| Mechanical Design | | | |
| height | 90 mm | | |
| width | 36 mm | | |
| depth | 76 mm | | |
| installation depth | 70 mm | | |
| number of modular width units | 2 | | |
| fastening method | Quick assembly system | | |
| mounting position | any | | |
| net weight | 308 g | | |
| Environmental conditions | | | |
| influence of the surrounding temperature | max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C | | |
| standard | IEC / EN 60898-1, IEC / EN 60947-2 / UL1077 | | |
| vibration resistance according to IEC 60068-2-6 | ±1mm at 5 to 25Hz; 50m/s ² at 25 to 150Hz | | |
| ambient temperature during operation | | | |
| minimum | -40 °C | | |
| • maximum | 70 °C | | |
| ambient temperature during storage | | | |
| minimum | -40 °C | | |
| • maximum | -40 C | | |
| number of test cycles for environmental testing according to IEC | 6 | | |
| 60068-2-30 | 0 | | |
| General Product Approval | | | |
| | UR VDE Miscellaneous | | |

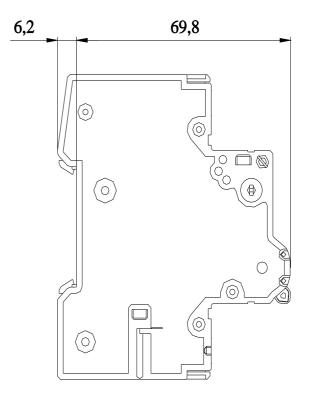
General Product Approval

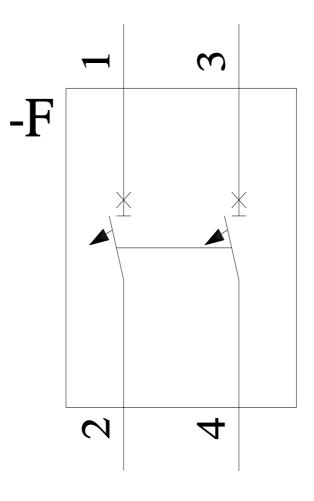
EMC

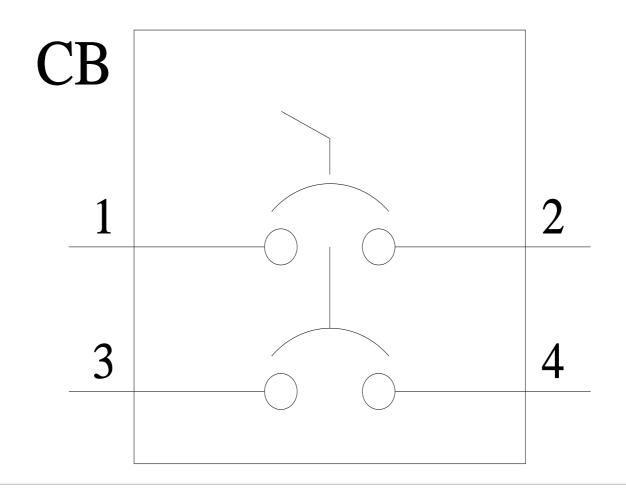
Declaration of Conformity

| <u>KC</u> | EHC | <u>Miscellaneous</u> | RCM | UK CA | CE EG-Konf. | |
|--|--|--|--|---------------------------|----------------------------------|--|
| Test Certificates | | Marine / Shipping | | | | |
| <u>Miscellaneous</u> | Special Test Certific- ate | ABS | B U RE AU VERITAS | Llovd's Register us | RINA | |
| Marine / Shipping | other | | Railway | | Environment | |
| DNV-GL EMISLEDIKAP | <u>Confirmation</u> | <u>Miscellaneous</u> | Vibration and Shock | <u>Confirmation</u> | Environmental Con- firmations | |
| Further information | | | | | | |
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