



Figure similar

Miniature circuit breaker 400 V 10kA, 2-pole, C, 100 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 | 3 |
| degree of pollution | 3 |
| Voltage | |
| type of voltage of the operating voltage | AC |
| insulation voltage (Ui) | |
| • at AC rated value | 440 V |
| • with multi-phase operation at AC rated value | 440 V |
| operational current | |
| • at 30 °C rated value | 100 A |
| • at 40 °C rated value | 95 A |
| • at 50 °C rated value | 89.5 A |
| • at 60 °C rated value | 84 A |
| • at AC rated value | 100 A |
| Supply voltage | |
| supply voltage at AC | 400 V |
| value range of the supply voltage frequency | 50/60 Hz |
| Protection class | |
| protection class IP | IP20 with connected conductors, IP40 in the area of the handle with distribution cover |
| Breaking Capacity | |
| switching capacity current | |
| • according to EN 60898 rated value | 10 kA |
| Dissipation | |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 8 W |
| suitability for operation | Infrastructure / Industry |
| Product details | |
| product feature touch protection | Yes |
| product component | |
| • tunnel terminals top | Yes |
| • tunnel terminals bottom | Yes |

| | |
|--|---|
| product feature | |
| <ul style="list-style-type: none"> • properties for main switches in accordance with EN 60204-1 • halogen-free • sealable • silicon-free | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> |
| product extension installable supplementary devices | Yes |

Connections

| | |
|---|---|
| connectable conductor cross-section solid | |
| <ul style="list-style-type: none"> • minimum • maximum | <p>25 mm²</p> <p>50 mm²</p> |
| connectable conductor cross-section stranded | |
| <ul style="list-style-type: none"> • minimum • maximum | <p>25 mm²</p> <p>50 mm²</p> |
| connectable conductor cross-section finely stranded with core end processing | |
| <ul style="list-style-type: none"> • minimum • maximum | <p>25 mm²</p> <p>35 mm²</p> |
| AWG number as coded connectable conductor cross section | |
| <ul style="list-style-type: none"> • minimum • maximum | <p>3</p> <p>1</p> |
| tightening torque [lbf-in] with screw-type terminals | |
| <ul style="list-style-type: none"> • minimum • maximum | <p>22.1 lbf-in</p> <p>31 lbf-in</p> |
| tightening torque with screw-type terminals | |
| <ul style="list-style-type: none"> • minimum • maximum | <p>2.5 N·m</p> <p>3.5 N·m</p> |
| position of power supply cord | Any |

Mechanical Design

| | |
|--------------------------------------|----------|
| height | 90 mm |
| width | 54 mm |
| depth | 76 mm |
| installation depth | 70 mm |
| number of modular width units | 3 |
| fastening method | DIN rail |
| mounting position | any |
| net weight | 520 g |

Environmental conditions

| | |
|--|---|
| influence of the surrounding temperature | Max. 95% rel. humidity |
| shock resistance according to IEC 60068-2-27 | 150m/s ² at 11ms half-sine |
| vibration resistance according to IEC 60068-2-6 | 50m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec) |
| ambient temperature during storage | |
| <ul style="list-style-type: none"> • minimum • maximum | <p>-40 °C</p> <p>75 °C</p> |

Approvals Certificates

General Product Approval



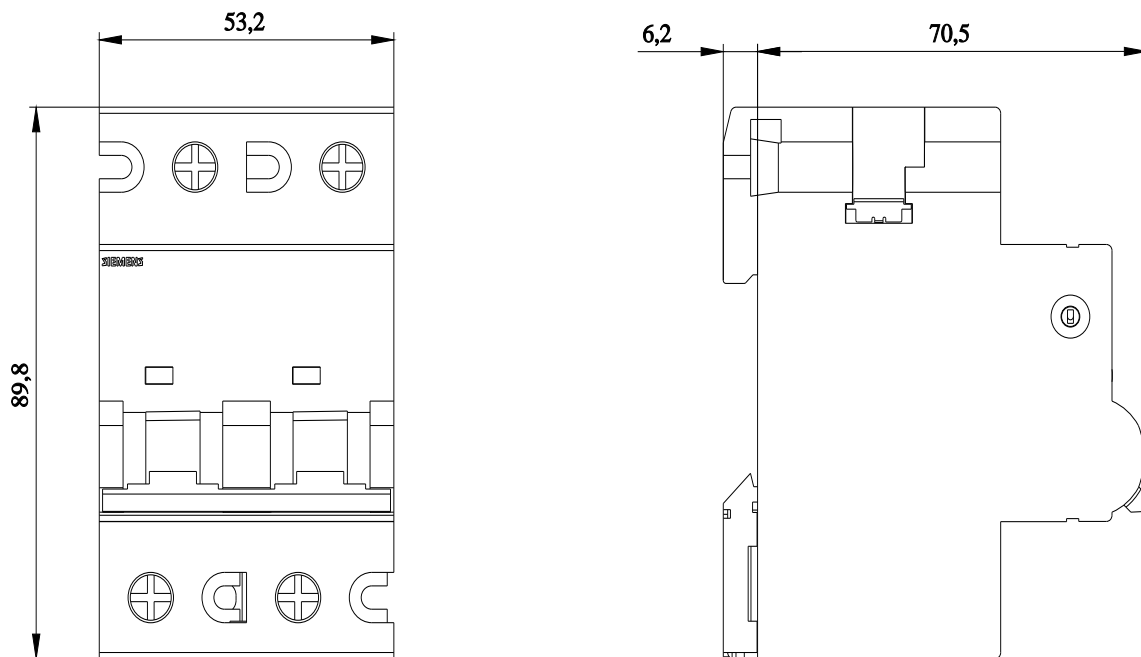
| | | | |
|--------------------------|----------------------|-------|---------|
| General Product Approval | Maritime application | other | Railway |
|--------------------------|----------------------|-------|---------|



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last modified:

4/12/2025

