



Circuit breaker Universal current 440 V DC 400 V AC 10kA, 2-pole, C, 10 A

| Model | |
|---|---------------------------------|
| product brand name | SETRON |
| product designation | Miniature circuit breaker |
| General technical data | |
| number of poles | 2 |
| number of poles / note | 2P |
| tripping characteristic class | C |
| mechanical service life (switching cycles) / typical | 10 000 |
| overvoltage category | III |
| degree of pollution | 3 |
| Voltage | |
| insulation voltage | |
| • at DC / rated value | 250 V |
| • with single-phase operation / at AC / rated value | 440 V |
| • with multi-phase operation / at AC / rated value | 440 V |
| Supply voltage | |
| type of voltage | AC/DC |
| supply voltage | |
| • at AC / rated value | 400 V |
| • at DC / rated value | 440 V |
| operating voltage / at DC / rated value / maximum | 500 V |
| supply voltage frequency / rated value | 50/60 Hz |
| Protection class | |
| protection class IP | IP20, with connected conductors |
| Switching capacity | |
| switching capacity current | |
| • at DC / acc. to IEC 60947-2 / rated value | 15 kA |
| • acc. to EN 60898 / rated value | 10 kA |
| energy limitation class | 3 |
| Dissipation | |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 1.1 W |
| suitability for operation | universal current |
| Product details | |
| product function / neutral conductor switching | No |
| product feature / touch protection | Yes |
| product component | |

| | |
|---|--|
| <ul style="list-style-type: none"> combined terminal top combined terminal bottom | <p>Yes</p> <p>Yes</p> |
| 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 | <p>Yes</p> |
| Short circuit | |
| breaking capacity short-circuit current (I_{cn}) <ul style="list-style-type: none"> at DC / acc. to EN 60898-2 | <p>10 kA</p> |
| Connections | |
| connectable conductor cross-section / solid <ul style="list-style-type: none"> minimum maximum | <p>0.75 mm²</p> <p>35 mm²</p> |
| connectable conductor cross-section / stranded <ul style="list-style-type: none"> minimum maximum | <p>0.75 mm²</p> <p>35 mm²</p> |
| connectable conductor cross-section / finely stranded / with core end processing <ul style="list-style-type: none"> minimum maximum | <p>0.75 mm²</p> <p>25 mm²</p> |
| AWG number / as coded connectable conductor cross section <ul style="list-style-type: none"> minimum maximum | <p>18</p> <p>4</p> |
| tightening torque [lbf-in] / with screw-type terminals <ul style="list-style-type: none"> minimum maximum | <p>22 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 | <p>AC as required, observe DC polarity</p> |
| 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 | 316 g |
| Environmental conditions | |
| influence of the surrounding temperature | max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C |
| vibration resistance / acc. to IEC 60068-2-6 | ±1mm at 5 to 25Hz; 50m/s ² at 25 to 150Hz |
| ambient temperature / during operation <ul style="list-style-type: none"> minimum maximum | <p>-40 °C</p> <p>70 °C</p> |
| ambient temperature / during storage <ul style="list-style-type: none"> minimum maximum | <p>-40 °C</p> <p>75 °C</p> |
| number of test cycles / for environmental testing / acc. to IEC 60068-2-30 | 6 |
| Certificates | |
| reference code <ul style="list-style-type: none"> acc. to DIN EN 61346-2 acc. to IEC 81346-2 | <p>F</p> <p>F</p> |



[Miscellaneous](#)



EG-Konf.

Test Certificates

Railway

[Special Test Certificate](#)

[Miscellaneous](#)

[Special Test Certificate](#)

[Confirmation](#)

[Vibration and Shock](#)

Further information

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=5SY5210-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY5210-7>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5210-7

Tender specifications

<http://www.siemens.com/specifications>

