

Miniature circuit breaker 400 V 6kA, 3-pole, C, 10A, D=70 mm



| Model | |
|--|---------------------------|
| Product brand name | SENTRON |
| Product designation | Miniature circuit breaker |
| General technical data | |
| Number of poles | 3 |
| Number of poles / Note | 3P |
| Tripping characteristic class | C |
| circuit-breaker / Design | 5SY6 |
| Mechanical service life (switching cycles) / typical | 20 000 |
| Oversvoltage category | 3 |
| Voltage | |
| Type of voltage | AC/DC |
| Insulation voltage | 440 V |
| • with multi-phase operation / at AC / rated value | |
| Supply voltage | |
| Supply voltage / at AC / rated value | 400 V |
| Supply voltage frequency | 50/60 Hz |
| • rated value | |

| Protection class | |
|--|-----------------------------------|
| Protection class IP | IP20, with connected conductors |
| Energy limiting class | 3 |
| Switching capacity | |
| Switching capacity current | |
| <ul style="list-style-type: none"> at DC / acc. to IEC 60947-2 / rated value | 15 kA |
| <ul style="list-style-type: none"> acc. to EN 60898 / rated value | 6 kA |
| <ul style="list-style-type: none"> acc. 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 | 1.1 W |
| Electricity | |
| Tripping residual / rated value / derated current / at 40 Cel | 9.6 A |
| Current / at AC / rated value | 10 A |
| Suitability for operation | Mechanical engineering / industry |
| Product details | |
| Product feature / Touch protection | Yes |
| Product component | |
| <ul style="list-style-type: none"> combined terminal top | Yes |
| <ul style="list-style-type: none"> combined terminal bottom | Yes |
| Product feature | |
| <ul style="list-style-type: none"> Properties for main switches in accordance with EN 60204-1 | Yes |
| <ul style="list-style-type: none"> halogen-free | Yes |
| <ul style="list-style-type: none"> sealable | Yes |
| <ul style="list-style-type: none"> silicon-free | Yes |
| Product extension / can be installed / supplementary devices | Yes |
| Product function | |
| Product function / neutral conductor switching | No |
| Short circuit | |
| Breaking capacity short-circuit current (I _{cn}) | |
| <ul style="list-style-type: none"> at AC / acc. to UL 1077 and CSA C22.2 No.235 | 5 kA |
| Number | |
| Number of test cycles / for environmental testing / acc. to IEC 60068-2-30 | 6 |
| Connections | |
| Connectable conductor cross-section / stranded | |
| <ul style="list-style-type: none"> minimum | 0.75 mm ² |

| | |
|---|--|
| <ul style="list-style-type: none"> • maximum | 35 mm ² |
| Connectable conductor cross-section | |
| <ul style="list-style-type: none"> • solid <ul style="list-style-type: none"> — minimum — maximum • finely stranded / with core end processing <ul style="list-style-type: none"> — minimum — maximum | 0.75 mm ² 35 mm ² 0.75 mm ² 25 mm ² |
| AWG number / as coded connectable conductor cross section | |
| <ul style="list-style-type: none"> • minimum • maximum | 14 4 |
| Tightening torque [lbf·in] / with screw-type terminals | |
| <ul style="list-style-type: none"> • minimum • maximum | 22 lbf·in 26 lbf·in |
| Tightening torque / with screw-type terminals | |
| <ul style="list-style-type: none"> • minimum • maximum | 2.5 N·m 3 N·m |
| Position / of power supply cord | Any |

Mechanical Design

| | |
|-----------------------|-----------------------|
| Height | 90 mm |
| Width | 54 mm |
| Depth | 76 mm |
| Mounting position | any |
| Installation depth | 70 mm |
| Number of width units | 3 |
| Mounting type | Quick assembly system |
| Net weight | 451 g |

Environmental conditions

| | |
|--|---|
| Degree of pollution | 3 |
| Influence of the surrounding temperature | Max. 95% humidity |
| Vibration resistance / acc. to IEC 60068-2-6 | 50m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec) |
| Ambient temperature | |
| <ul style="list-style-type: none"> • minimum • maximum • during storage / minimum • during storage / maximum | -25 °C 55 °C -40 °C 75 °C |

Certificates

| | |
|---|---|
| Reference code / acc. to DIN EN 61346-2 | F |
|---|---|

General Product Approval



CCC



IMQ



UR



VDE

[Miscellaneous](#)



RCM

General
Product
Approval

[KC](#)

Declaration of
Conformity



EG-Konf.

Test
Certificates

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Shipping Approval



ABS



BUREAU
VERITAS

Lloyd's
Register

LRS

Shipping Approval



RINA

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=5SY6310-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY6310-7>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6310-7

CAX-Online-Generator

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

Tender specifications

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





