

CIRCUIT BREAKER CURR. SENS DC 440V AC 400V 10KA, 2-POLE, B, 20A



| Model | |
|--|--------------------------------|
| product brandname | SENTRON |
| Product designation | 5SY miniature circuit breaker |
| Design of the product | 5SY miniature circuit breakers |
| General technical data | |
| Number of poles | 2 |
| Number of poles / Note | 2P |
| Tripping characteristic class | B |
| circuit-breaker / Design | 5SY5 |
| Mechanical service life (switching cycles) / typical | 20 000 |
| Overvoltage category | 3 |
| Voltage | |
| Type of voltage | AC/DC |
| Insulation voltage | |
| • at DC / rated value | 250 V |
| • with multi-phase operation / at AC / rated value | 440 V |
| Supply voltage | |
| Supply voltage / at AC / rated value | 400 V |

| 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 | 10 kA |
| Dissipation | |
| Power loss [W] | |
| <ul style="list-style-type: none"> • for rated value of the current / at AC / in hot operating state / per pole | 2.2 W |
| <ul style="list-style-type: none"> • maximum | 4.4 W |
| Electricity | |
| Current / at AC / rated value | 20 A |
| 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 DC / acc. to EN 60898-2 | 10 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 0.75 mm² — maximum 35 mm² • finely stranded / with core end processing <ul style="list-style-type: none"> — minimum 0.75 mm² — maximum 25 mm² | |
| AWG number / as coded connectable conductor cross section | |
| <ul style="list-style-type: none"> • minimum 14 • maximum 4 | |
| Tightening torque [lbf·in] / with screw-type terminals | |
| <ul style="list-style-type: none"> • minimum 22 lbf·in • maximum 26 lbf·in | |
| Tightening torque / with screw-type terminals | |
| <ul style="list-style-type: none"> • minimum 2.5 N·m • maximum 3 N·m | |

Mechanical Design

| | |
|------------------------------|-----------------------|
| Height | 90 mm |
| Width | 36 mm |
| Depth | 76 mm |
| Mounting position | any |
| Installation depth | 70 mm |
| Number of width units | 2 |
| Mounting type | Quick assembly system |
| Net weight | 328 g |

Environmental conditions

| | |
|--|---|
| Influence of the surrounding temperature | Max. 95% humidity |
| Shock resistance / acc. to IEC 60068-2-27 | 150m/s ² at 11ms half-sine |
| 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 -25 °C • maximum 55 °C • during storage / minimum -40 °C • during storage / maximum 75 °C | |

Certificates

| | |
|--|---|
| Equipment marking / acc. to DIN EN 61346-2 | F |
|--|---|

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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)<http://www.siemens.com/lowvoltage/catalogs>**Industry Mall (Online ordering system)**<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SY5220-6>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<http://support.automation.siemens.com/WW/view/en/5SY5220-6/all>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5220-6**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>

