



CIRCUIT BREAKER 230V 10KA, 1+N-POLE, A, 2A, D=70MM

| Model | | |
|------------------------------|--|--------------------------------|
| product brand name | | 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 | | 1P+N |
| Tripping characteristic class | | A |
| circuit-breaker / Design | | 5SY4 |
| Mechanical service life (switching cycles) / typical | | 20 000 |
| Overvoltage category | | 3 |

| Voltage | | |
|---|---|-----|
| Insulation voltage | | |
| <ul style="list-style-type: none"> with single-phase operation / with AC / Rated value | V | 250 |

| Supply voltage | | |
|--|----|----|
| Supply voltage frequency / Rated value | Hz | 50 |

| Protection class | | |
|------------------------------|--|---------------------------------|
| Protection class IP | | IP20, with connected conductors |
| Energy limiting class | | 3 |

| Switching capacity | | |
|--|----|----|
| Switching capacity current | | |
| <ul style="list-style-type: none"> for DC / acc. to IEC 60947-2 / Rated value | kA | 15 |

- acc. to EN 60898 / Rated value
- acc. to IEC 60947-2 / Rated value

| | |
|----|----|
| kA | 10 |
| kA | 35 |

Dissipation

Active power loss

- for rated value of the current / with AC / in hot operating state / per pole

| | |
|---|-----|
| W | 2.2 |
|---|-----|

Electricity

rated current I_n / IEC, DIN/VDE / at 40 Cel

| | |
|---|-----|
| A | 1.9 |
|---|-----|

Current / with AC / Rated value

| | |
|---|---|
| A | 2 |
|---|---|

Product details

Product feature / Touch protection

| | |
|--|-----|
| | Yes |
|--|-----|

Product component

- combined terminal top
- combined terminal bottom

| | |
|--|-----|
| | Yes |
| | Yes |

Product property

- Properties for main switches in accordance with EN 60204-1
- halogen-free
- sealable
- silicon-free

| | |
|--|-----|
| | Yes |
| | Yes |
| | Yes |
| | Yes |

Product expansion / can be installed / supplementary devices

| | |
|--|-----|
| | Yes |
|--|-----|

Product function

Product function / neutral conductor switching

| | |
|--|-----|
| | Yes |
|--|-----|

Short circuit

Breaking capacity short-circuit current (I_{cn})

- with AC / acc. to UL 1077 and CSA C22.2 No.235
- for DC / acc. to EN 60898-2

| | |
|----|----|
| kA | 5 |
| kA | 10 |

Number

Number of test cycles / for environmental testing / acc. to IEC 60068-2-30

| | |
|--|---|
| | 6 |
|--|---|

Connections

Connectable conductor cross-section / stranded

- minimum
- maximum

| | |
|-----------------|------|
| mm ² | 0.75 |
| mm ² | 35 |

Connectable conductor cross-section

- solid
 - minimum
 - maximum

| | |
|-----------------|------|
| mm ² | 0.75 |
| mm ² | 35 |

| | | |
|--|-----------------|------|
| <ul style="list-style-type: none"> finely stranded / with core end processing <ul style="list-style-type: none"> — minimum — maximum | mm ² | 0.75 |
| | mm ² | 25 |
| 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 | lbf·in | 22 |
| | lbf·in | 26 |
| Tightening torque / with screw-type terminals | | |
| <ul style="list-style-type: none"> minimum maximum | N·m | 2.5 |
| | N·m | 3 |
| Position / of power supply cord | | Any |

Mechanical Design

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

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 maximum during storage / minimum during storage / maximum | °C | -25 |
| | °C | 55 |
| | °C | -40 |
| | °C | 75 |

Certificates

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

| | |
|--------------------------|---------------------------|
| General Product Approval | Declaration of Conformity |
|--------------------------|---------------------------|



CCC



GOST



UL



VDE



EG-Konf.

| | | |
|-------------------|-------------------|-------|
| Test Certificates | Shipping Approval | other |
|-------------------|-------------------|-------|

[other](#)

[Special Test Certificate](#)



DNV

[other](#)

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/5SY45025>

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

<http://support.automation.siemens.com/WW/view/en/5SY45025/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SY45025

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>



last modified:

11.03.2015