

CIRCUIT BREAKER 230/400V 10KA, 1-POLE, D, 13A, D=70MM



Figure similar

| 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 | | 1 |
| Number of poles / Note | | 1P |
| Tripping characteristic class | | D |
| circuit-breaker / Design | | 5SY4 |
| Mechanical service life (switching cycles) / typical | | 20 000 |
| Overvoltage category | | 3 |
| Voltage | | |
| Type of voltage | | AC/DC |
| Insulation voltage | | |
| <ul style="list-style-type: none"> with single-phase operation / with AC / Rated value | V | 250 |
| <ul style="list-style-type: none"> with multi-phase operation / with AC / Rated value | V | 440 |
| Supply voltage | | |
| Supply voltage / with AC / Rated value | V | 400 |
| 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

| | | |
|--|----|----|
| • for DC / acc. to IEC 60947-2 / Rated value | kA | 15 |
| • acc. to EN 60898 / Rated value | kA | 10 |
| • acc. to IEC 60947-2 / Rated value | kA | 20 |

Dissipation

Active power loss

| | | |
|--|---|-----|
| • for rated value of the current / with AC / in hot operating state / per pole | W | 1.4 |
|--|---|-----|

Electricity

| | | |
|--|---|-------|
| rated current I_n / IEC, DIN/VDE / at 40 Cel | A | 12.35 |
| Current / with AC / Rated value | A | 13 |

Product details

| | | |
|------------------------------------|--|-----|
| Product feature / Touch protection | | Yes |
|------------------------------------|--|-----|

Product component

| | |
|----------------------------|-----|
| • combined terminal top | Yes |
| • combined terminal bottom | Yes |

Product property

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

| | |
|--|-----|
| Product expansion / can be installed / supplementary devices | Yes |
|--|-----|

Product function

| | |
|--|----|
| Product function / neutral conductor switching | No |
|--|----|

Short circuit

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

| | | |
|--|----|----|
| • with AC / acc. to UL 1077 and CSA C22.2 No.235 | kA | 5 |
| • for DC / acc. to EN 60898-2 | kA | 10 |

Number

| | |
|--|---|
| Number of test cycles / for environmental testing / acc. to IEC 60068-2-30 | 6 |
|--|---|

Connections

Connectable conductor cross-section / stranded

| | | |
|-----------|-----------------|------|
| • minimum | mm ² | 0.75 |
| • maximum | mm ² | 35 |

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 | mm ² mm ² mm ² mm ² | 0.75 35 0.75 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 lbf·in | 22 26 |
| Tightening torque / with screw-type terminals | | |
| <ul style="list-style-type: none"> • minimum • maximum | N·m N·m | 2.5 3 |
| Position / of power supply cord | | Any |

Mechanical Design

| | | |
|------------------------------|----|-----------------------|
| Height | mm | 90 |
| Width | mm | 18 |
| Depth | mm | 76 |
| mounting position | | any |
| Installation depth | mm | 70 |
| Number of width units | | 1 |
| Mounting type | | Quick assembly system |
| Net weight | g | 157 |

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 °C °C °C | -25 55 -40 75 |

Certificates

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

General Product Approval



CCC



IMQ



GOST



UL



VDE



Declaration of
Conformity

Test Certificates

Shipping Approval



EG-Konf.

[Special Test
Certificate](#)

[other](#)



LRS

Shipping
Approval

other

[other](#)



RINA

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/5SY41138>

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

<http://support.automation.siemens.com/WW/view/en/5SY41138/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SY41138

CAX-Online-Generator

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

Tender specifications

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



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