

Miniature circuit breaker 230 V 15kA, 1+N-pole, B, 13 A, D=70 mm



| Model | |
|---|---------------------------|
| Product brand name | SENTRON |
| Product designation | Miniature circuit breaker |
| General technical data | |
| Number of poles | 2 |
| Number of poles / Note | 1P+N |
| Tripping characteristic class | B |
| circuit-breaker / Design | 5SY7 |
| Mechanical service life (switching cycles) / typical | 10 000 |
| Overvoltage category | III |
| Voltage | |
| Insulation voltage | 250 V |
| <ul style="list-style-type: none"> with single-phase operation / at AC / rated value | |
| Supply voltage / with single-phase operation / at AC / rated value | 230 V |
| Supply voltage | |
| Type of voltage | AC |

| | |
|---------------------------------|----------|
| Current / at AC / rated value | 13 A |
| Supply voltage | |
| • at AC / rated value | 230 V |
| Operating voltage | |
| • at DC / rated value / maximum | 72 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 | 15 kA |
| • acc. to IEC 60947-2 / rated value | 25 kA |
| Energy limiting class | 3 |

Dissipation

| | |
|---|-----------------------------------|
| Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 1.7 W |
| Suitability for operation | Mechanical engineering / industry |

Product details

| | |
|--|-----|
| Product function / neutral conductor switching | Yes |
| Product feature / Touch protection | Yes |
| Product component | |
| • combined terminal top | Yes |
| • combined terminal bottom | Yes |
| Product feature | |
| • Properties for main switches in accordance with EN 60204-1 | Yes |
| • halogen-free | Yes |
| • sealable | Yes |
| • silicon-free | Yes |
| Product extension / can be installed / supplementary devices | Yes |

Short circuit

| | |
|--|------|
| Breaking capacity short-circuit current (I _{cn}) | |
| • at AC / acc. to UL 1077 and CSA C22.2 No.235 | 5 kA |

Connections

| | |
|---------------------------------------|-----------------------------|
| • Connectable conductor cross-section | |
| — solid | 0.75 ... 35 mm ² |
| — stranded | 0.75 ... 35 mm ² |

| | |
|--|-----------------------------|
| • Connectable conductor cross-section / finely stranded / with core end processing | 0.75 ... 25 mm ² |
| AWG number / as coded connectable conductor cross section | 18 ... 4 |
| Tightening torque [lbf·in] / with screw-type terminals | 22 ... 31 lbf·in |
| Tightening torque / with screw-type terminals | 2.5 ... 3.5 N·m |
| Position / of power supply cord | Any |

Mechanical Design

| | |
|-----------------------|-----------------------|
| Height | 90 mm |
| Width | 36 mm |
| Depth | 76 mm |
| Installation depth | 70 mm |
| Number of width units | 2 |
| Mounting type | Quick assembly system |
| Mounting position | any |
| Net weight | 318 g |

Environmental conditions

| | |
|--|--|
| Influence of the surrounding temperature | max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C |
| Ambient temperature | -40 ... +70 °C |
| • during storage | -40 ... +75 °C |

Certificates

| | |
|--------------------------|---|
| Reference code | |
| • acc. to DIN EN 61346-2 | F |
| • acc. to DIN EN 81346-2 | F |

General Product Approval



CCC



IMQ



UR



VDE



RCM

[Miscellaneous](#)

Declaration of
Conformity

Shipping Approval

Railway



EG-Konf.



ABS



BUREAU
VERITAS



LRS



RINA

[Confirmation](#)

Railway

[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=5SY7513-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY7513-6>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY7513-6

CAX-Online-Generator

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

Tender specifications

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

