



Figure similar

Device circuit breaker 1-pole with auxiliary switch NO contact Characteristic F2 6A
230 V AC 50/60 Hz 60 V DC Icn 3 kA AC according to IEC 60934

| Model | |
|---|--------------------------------------|
| product brand name | SENTRON |
| product designation | Device protection switch |
| General technical data | |
| number of poles | 1 |
| design of pole | 1P+AS |
| tripping characteristic class | F2 |
| mechanical service life (operating cycles) typical | 6 000 |
| overvoltage category | 3 |
| degree of pollution | 2 |
| Voltage | |
| type of voltage of the operating voltage | AC/DC |
| insulation voltage (Ui) | |
| • at DC rated value | 72 V |
| • with single-phase operation at AC rated value | 250 V |
| • operational current | |
| — at 40 °C rated value | 5.5 A |
| — at 50 °C rated value | 5.18 A |
| — at 55 °C rated value | 5.02 A |
| — at 60 °C rated value | 4.85 A |
| • operational current at AC rated value | 6 A |
| Supply voltage | |
| supply voltage | |
| • at AC | 230 V |
| • at DC rated value | 60 V |
| value range of the supply voltage frequency | 50/60 Hz |
| operating voltage at DC rated value maximum | 72 V |
| Protection class | |
| protection class IP | IP20 |
| Dissipation | |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 1.12 W |
| suitability for operation | Residential buildings/infrastructure |
| Product details | |
| product feature touch protection | Yes |
| product component | |
| • combined terminal top | No |

| | |
|---|-----|
| • combined terminal bottom | No |
| • neutral conductor switching | No |
| product feature properties for main switches in accordance with EN 60204-1 | Yes |
| product feature halogen-free | Yes |
| product feature sealable | Yes |
| product feature silicon-free | Yes |
| product extension installable supplementary devices | Yes |

Connections

| | |
|---|---------------------|
| connectable conductor cross-section solid | |
| • minimum | 0.5 mm ² |
| • maximum | 16 mm ² |
| connectable conductor cross-section stranded | |
| • minimum | 0.5 mm ² |
| • maximum | 16 mm ² |
| connectable conductor cross-section finely stranded with core end processing | |
| • minimum | 0.5 mm ² |
| • maximum | 10 mm ² |
| AWG number as coded connectable conductor cross section | |
| • minimum | 20 |
| • maximum | 6 |
| tightening torque [lbf-in] with screw-type terminals | |
| • minimum | 17.7 lbf-in |
| tightening torque with screw-type terminals | |
| • minimum | 2 N·m |
| • maximum | 2.5 N·m |
| position of power supply cord | Any |

Mechanical Design

| | |
|--------------------------------------|---------------------|
| height | 90 mm |
| width | 18 mm |
| depth | 76 mm |
| installation depth | 70 mm |
| number of modular width units | 1 |
| fastening method | DIN rail |
| mounting position | Horizontal/vertical |
| Net Weight | 111 g |

Environmental conditions

| | |
|--|-------------------------------|
| influence of the surrounding temperature | 30 °C @ 85%rF; 60 °C @ 20%rF" |
| standard | IEC / DIN EN 60934, UL1077 |
| vibration resistance according to IEC 60068-2-6 | Yes |
| ambient temperature during operation | |
| • minimum | -25 °C |
| • maximum | 60 °C |
| ambient temperature during storage | |
| • minimum | -40 °C |
| • maximum | 70 °C |
| number of test cycles for environmental testing according to IEC 60068-2-30 | 6 |

Approvals Certificates

General Product Approval



[Confirmation](#)



| | | | |
|-------------------|-------|---------|-------------|
| Test Certificates | other | Railway | Environment |
|-------------------|-------|---------|-------------|



Environment

[Environmental Con-
firmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY1706-4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY1706-4>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY1706-4

CAx-Online-Generator

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

Tender specifications

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





