



Figure similar

Device circuit breaker 1-pole with auxiliary switch NO contact Characteristic F1  
10A 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   | F1                                   |
| 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  | 9.17 A                               |
| — at 50 °C rated value  | 8.64 A                               |
| — at 55 °C rated value  | 8.36 A                               |
| — at 60 °C rated value  | 8.08 A                               |
| • operational current at AC rated value   | 10 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 | 2.9 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  |
| <b>product feature properties for main switches in accordance with EN 60204-1</b> | Yes |
| <b>product feature halogen-free</b>   | Yes |
| <b>product feature sealable</b>   | Yes |
| <b>product feature silicon-free</b>   | Yes |
| <b>product extension installable supplementary devices</b>                        | Yes |

### Connections

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

### Mechanical Design

|                                      |                     |
|--------------------------------------|---------------------|
| <b>height</b>                        | 90 mm               |
| <b>width</b>                         | 18 mm               |
| <b>depth</b>                         | 76 mm               |
| <b>installation depth</b>            | 70 mm               |
| <b>number of modular width units</b> | 1                   |
| <b>fastening method</b>              | DIN rail            |
| <b>mounting position</b>             | Horizontal/vertical |
| <b>Net Weight</b>                    | 119.5 g             |

### Environmental conditions

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

### Approvals Certificates

|                    |                                 |
|--------------------|---------------------------------|
| <b>Environment</b> | <b>General Product Approval</b> |
|--------------------|---------------------------------|

[Environmental Con-  
firmations](#)

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firmations](#)



|                                 |                          |              |
|---------------------------------|--------------------------|--------------|
| <b>General Product Approval</b> | <b>Test Certificates</b> | <b>other</b> |
|---------------------------------|--------------------------|--------------|

## Railway

[Confirmation](#)

## 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=5SY1710-2>

## Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/5SY1710-2>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY1710-2](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY1710-2)

## CAx-Online-Generator

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

## Tender specifications

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

## Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)




