

Miniature circuit breaker 230 V 6kA, 1+N-pole/1 MW, C 32 A



| Model  |                                  |
|--|----------------------------------|
| Product brand name                                   | SENTRON                          |
| Product designation                                  | Miniature circuit breaker        |
| Design of the product                                | 5SY60 miniature circuit breakers |
| General technical data                               |                                  |
| Number of poles                                      | 2                                |
| Number of poles / Note                               | 1P+N                             |
| Tripping characteristic class                        | C                                |
| circuit-breaker / Design                             | 5SY60                            |
| Mechanical service life (switching cycles) / typical | 10 000                           |
| Overvoltage category                                 | 3                                |
| Voltage  |                                  |
| Type of voltage                                      | AC                               |
| Insulation voltage                                   |                                  |
| • at AC / rated value                                | 250 V                            |
| • with single-phase operation / at AC / rated value  | 250 V                            |
| Supply voltage                                       |                                  |

|  |                                      |
|--|--------------------------------------|
| Supply voltage / at AC / rated value   | 230 V                                |
| Supply voltage frequency / rated value                                       | 50 Hz                                |
| <b>Protection class</b>  |                                      |
| Protection class IP  | IP20, with connected conductors      |
| Energy limiting class  | 3                                    |
| <b>Switching capacity</b>  |                                      |
| Switching capacity current   |                                      |
| • acc. to EN 60898 / rated value   | 6 kA                                 |
| <b>Dissipation</b>   |                                      |
| Power loss [W]   |                                      |
| • at N pole / at rated current / at AC / during operation                    | 1.31 W                               |
| • for rated value of the current / at AC / in hot operating state / per pole | 2.8 W                                |
| <b>Electricity</b>   |                                      |
| Tripping residual / rated value / derated current / at 40 Cel                | 30.4 A                               |
| Current / at AC / rated value  | 32 A                                 |
| <b>Main circuit</b>  |                                      |
| Operating voltage  |                                      |
| • minimum  | 24 V                                 |
| • with single-phase operation / at AC / maximum                              | 250 V                                |
| Suitability for operation  | Residential buildings/infrastructure |
| <b>Product details</b>   |                                      |
| Product feature / Touch protection   | Yes                                  |
| Product feature  |                                      |
| • halogen-free   | Yes                                  |
| • sealable   | Yes                                  |
| • silicon-free   | Yes                                  |
| Product extension / can be installed / supplementary devices                 | Yes                                  |
| <b>Product function</b>  |                                      |
| Product function / neutral conductor switching                               | Yes                                  |
| <b>Number</b>  |                                      |
| Number of test cycles / for environmental testing / acc. to IEC 60068-2-30   | 6                                    |
| <b>Connections</b>   |                                      |
| Connectable conductor cross-section / stranded                               |                                      |
| • minimum  | 0.75 mm <sup>2</sup>                 |
| • maximum  | 16 mm <sup>2</sup>                   |

|   |     |
|---|-----|
| <b>Connectable conductor cross-section</b>  |     |
| <ul style="list-style-type: none"> <li>• solid <ul style="list-style-type: none"> <li>— minimum 0.75 mm<sup>2</sup></li> <li>— maximum 16 mm<sup>2</sup></li> </ul> </li> <li>• finely stranded / with core end processing <ul style="list-style-type: none"> <li>— minimum 0.75 mm<sup>2</sup></li> <li>— maximum 10 mm<sup>2</sup></li> </ul> </li> </ul> |     |
| <b>Tightening torque / with screw-type terminals</b>  |     |
| <ul style="list-style-type: none"> <li>• minimum 2 N·m</li> <li>• maximum 2.5 N·m</li> </ul>  |     |
| <b>Position / of power supply cord</b>  |     |
|   | Any |

### Mechanical Design

|                       |       |
|-----------------------|-------|
| Height                | 90 mm |
| Depth                 | 76 mm |
| Mounting position     | any   |
| Installation depth    | 70 mm |
| Number of width units | 1     |
| Net weight            | 132 g |

### Environmental conditions

|  |                                       |
|--|---------------------------------------|
| Degree of pollution  | 2                                     |
| Influence of the surrounding temperature   | Periodically +55°C, max. 95% humidity |
| Vibration resistance / acc. to IEC 60068-2-6   | Yes                                   |
| <b>Ambient temperature</b>   |                                       |
| <ul style="list-style-type: none"> <li>• minimum -25 °C</li> <li>• maximum 45 °C</li> <li>• during storage / minimum -40 °C</li> <li>• during storage / maximum 75 °C</li> </ul> |                                       |

### Certificates

|  |   |
|--|---|
| <b>Reference code</b>  |   |
| <ul style="list-style-type: none"> <li>• acc. to DIN EN 81346-2</li> </ul> | F |

### General Product Approval

### Declaration of Conformity

### Test Certificates



[Miscellaneous](#)



[Miscellaneous](#)

### 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=5SY6032-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY6032-7>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY6032-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6032-7)

**CAX-Online-Generator**

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

**Tender specifications**

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



