

Miniature circuit breaker 230 V 6kA, 1+N-pole/1 MW, C 4A



| Model                                                              |                           |
|--------------------------------------------------------------------|---------------------------|
| Product brand name                                                 | SENTRON                   |
| Product designation                                                | Miniature circuit breaker |
| General technical data                                             |                           |
| Number of poles / Note                                             | 1P+N                      |
| Tripping characteristic class                                      | C                         |
| Mechanical service life (switching cycles) / typical               | 4 000                     |
| Overvoltage category                                               | III                       |
| Degree of pollution                                                | 2                         |
| Voltage                                                            |                           |
| Supply voltage / with single-phase operation / at AC / rated value | 230 V                     |
| Supply voltage                                                     |                           |
| Type of voltage                                                    | AC                        |
| Operating current / at AC / rated value                            | 4 A                       |
| Supply voltage                                                     | 230 V                     |
| • at AC / rated value                                              |                           |
| Operating voltage                                                  |                           |

- minimum 24 V
- with single-phase operation / at AC / maximum 250 V

## Protection class

|                     |                                 |
|---------------------|---------------------------------|
| Protection class IP | IP20, with connected conductors |
|---------------------|---------------------------------|

## Switching capacity

|                                  |      |
|----------------------------------|------|
| Switching capacity current       |      |
| • acc. to EN 60898 / rated value | 6 kA |
| Energy limiting class            | 3    |

## Dissipation

|                                                                                             |     |
|---------------------------------------------------------------------------------------------|-----|
| Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 2 W |
|---------------------------------------------------------------------------------------------|-----|

## Product details

|                                                              |     |
|--------------------------------------------------------------|-----|
| Product function / neutral conductor switching               | Yes |
| Product feature / Touch protection                           | Yes |
| Product component                                            |     |
| • combined terminal top                                      | No  |
| • combined terminal bottom                                   | No  |
| Product feature                                              |     |
| • Properties for main switches in accordance with EN 60204-1 | No  |
| • halogen-free                                               | Yes |
| • sealable                                                   | Yes |
| • silicon-free                                               | Yes |
| Product extension / can be installed / supplementary devices | Yes |

## Connections

|                                                                                  |                      |
|----------------------------------------------------------------------------------|----------------------|
| Connectable conductor cross-section / solid                                      |                      |
| • minimum                                                                        | 0.75 mm <sup>2</sup> |
| • maximum                                                                        | 16 mm <sup>2</sup>   |
| Connectable conductor cross-section / stranded                                   |                      |
| • minimum                                                                        | 0.75 mm <sup>2</sup> |
| • maximum                                                                        | 16 mm <sup>2</sup>   |
| Connectable conductor cross-section / finely stranded / with core end processing |                      |
| • minimum                                                                        | 0.75 mm <sup>2</sup> |
| • maximum                                                                        | 10 mm <sup>2</sup>   |
| Tightening torque [lbf·in] / with screw-type terminals                           |                      |
| • minimum                                                                        | 17.7 lbf·in          |
| • maximum                                                                        | 22.1 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 width units | 1             |
| Mounting type         | standard rail |
| Mounting position     | any           |
| Net weight            | 127 g         |

| Environmental conditions                                                   |                                       |
|----------------------------------------------------------------------------|---------------------------------------|
| Influence of the surrounding temperature                                   | Periodically +55°C, max. 95% humidity |
| Vibration resistance / acc. to IEC 60068-2-6                               | Yes                                   |
| Ambient temperature                                                        |                                       |
| • minimum                                                                  | -25 °C                                |
| • maximum                                                                  | 45 °C                                 |
| Ambient temperature / during storage                                       |                                       |
| • minimum                                                                  | -40 °C                                |
| • maximum                                                                  | 75 °C                                 |
| Number of test cycles / for environmental testing / acc. to IEC 60068-2-30 | 6                                     |

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

| General Product Approval                                                            |                                                                                     |                                                                                     | Declaration of Conformity                                                             | Test Certificates |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------|
|  |  |  |  |                   |
| CCC                                                                                 | IMQ                                                                                 | VDE                                                                                 | EG-Konf.                                                                              |                   |

[Miscellaneous](#)

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| Further information                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Information- and Downloadcenter (Catalogs, Brochures,...)</b><br><a href="http://www.siemens.com/lowvoltage/catalogs">http://www.siemens.com/lowvoltage/catalogs</a>                                                                                         |
| <b>Industry Mall (Online ordering system)</b><br><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY6004-7">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY6004-7</a>                                          |
| <b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b><br><a href="https://support.industry.siemens.com/cs/ww/en/ps/5SY6004-7">https://support.industry.siemens.com/cs/ww/en/ps/5SY6004-7</a>                                            |
| <b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b><br><a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6004-7">http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6004-7</a> |
| <b>CAX-Online-Generator</b><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                                                                                                                                              |



