



AFDD-MCB-Combination 230V, 6kA, 1+N, C, 20A Compact (1MW)

| Model                                                                                       |                                                       |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------|
| product brand name                                                                          | SENTRON                                               |
| design of the product                                                                       | Compact unit                                          |
| General technical data                                                                      |                                                       |
| number of poles                                                                             | 2                                                     |
| design of pole                                                                              | 1P+N                                                  |
| tripping characteristic class                                                               | C                                                     |
| size of installation devices / according to DIN 43880                                       | 1                                                     |
| touch protection against electrical shock / according to EN 50274                           | finger and back-of-hand safe                          |
| mechanical service life (switching cycles) / typical                                        | 10 000                                                |
| switching function / short-term delayed                                                     | No                                                    |
| overvoltage category                                                                        | III                                                   |
| degree of pollution                                                                         | 2                                                     |
| type of voltage / of the operating voltage                                                  | AC                                                    |
| Supply voltage                                                                              |                                                       |
| supply voltage                                                                              |                                                       |
| • at AC / rated value                                                                       | 230 V                                                 |
| value range / of the supply voltage frequency                                               | 50Hz                                                  |
| Protection class                                                                            |                                                       |
| protection class IP                                                                         | IP20, with connected protective device and conductors |
| Switching capacity                                                                          |                                                       |
| switching capacity current                                                                  |                                                       |
| • according to EN 60898-1 / rated value                                                     | 6 000 A                                               |
| • according to IEC 60947-2 / rated value                                                    | 6 000 A                                               |
| Dissipation                                                                                 |                                                       |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 2.65 W                                                |
| Current                                                                                     |                                                       |
| tripping current                                                                            |                                                       |
| • in the event of electrical arcs in parallel with the load / minimum                       | 50 A                                                  |
| • in the event of electrical arcs in parallel with the load / maximum                       | 500 A                                                 |
| • in the event of electrical arcs in series with the load / minimum                         | 2 A                                                   |
| • in the event of electrical arcs in series with the load / maximum                         | 20 A                                                  |
| operational current / at AC / rated value                                                   | 20 A                                                  |
| Product details                                                                             |                                                       |

|                                                                                  |                      |
|----------------------------------------------------------------------------------|----------------------|
| product feature                                                                  |                      |
| • halogen-free                                                                   | Yes                  |
| • silicon-free                                                                   | Yes                  |
| product extension / installable / supplementary devices                          | Yes                  |
| <b>Connections</b>                                                               |                      |
| 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 / with screw-type terminals                                    |                      |
| • minimum                                                                        | 1.2 N·m              |
| • maximum                                                                        | 2 N·m                |
| position / of power supply cord                                                  | any                  |
| <b>Mechanical Design</b>                                                         |                      |
| height                                                                           | 90 mm                |
| width                                                                            | 18 mm                |
| depth                                                                            | 68.5 mm              |
| installation depth                                                               | 70 mm                |
| number of modular width units                                                    | 1                    |
| fastening method                                                                 | DIN rail (REG)       |
| mounting position                                                                | any                  |
| net weight                                                                       | 150 g                |
| <b>Environmental conditions</b>                                                  |                      |
| ambient temperature / during operation                                           |                      |
| • minimum                                                                        | -25 °C               |
| • maximum                                                                        | 45 °C                |
| ambient temperature / during storage                                             |                      |
| • minimum                                                                        | -40 °C               |
| • maximum                                                                        | 75 °C                |
| ambient temperature / with relative humidity 95%                                 | 55 °C                |
| number of test cycles / for environmental testing / according to IEC 60068-2-30  | 28                   |

#### General Product Approval

#### Declaration of Conformity

#### Test Certificates

[Confirmation](#)



[Miscellaneous](#)

#### other

[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=5SV6016-7KK20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV6016-7KK20>

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





