



RCBO compact 1P+N 6 kA type A 30 mA B10

| Model                                                                                        |                                                                         |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| product brand name                                                                           | SENTRON                                                                 |
| product designation                                                                          | RCBO                                                                    |
| design of the product                                                                        | Instantaneous                                                           |
| General technical data                                                                       |                                                                         |
| number of poles                                                                              | 2                                                                       |
| number of poles / note                                                                       | 1P+N                                                                    |
| number of poles / with protection                                                            | 1                                                                       |
| tripping characteristic class                                                                | B                                                                       |
| mechanical service life (switching cycles) / typical                                         | 10 000                                                                  |
| overvoltage category                                                                         | III                                                                     |
| degree of pollution                                                                          | 2                                                                       |
| Voltage                                                                                      |                                                                         |
| surge current resistance / at (8/20) $\mu$ s                                                 | 1 kA                                                                    |
| Supply voltage                                                                               |                                                                         |
| type of voltage                                                                              | AC                                                                      |
| operational current / at AC / rated value                                                    | 10 A                                                                    |
| supply voltage                                                                               |                                                                         |
| • at AC / rated value                                                                        | 230 V                                                                   |
| • for testing equipment / minimum                                                            | 195 V                                                                   |
| operating frequency                                                                          | 50 Hz                                                                   |
| supply voltage frequency / rated value                                                       | 50 Hz                                                                   |
| Protection class                                                                             |                                                                         |
| protection class IP                                                                          | IP20, if the distribution board is installed, with connected conductors |
| Switching capacity                                                                           |                                                                         |
| breaking capacity short-circuit current ( $I_{cn}$ ) / according to EN 61009-1 / rated value | 6 kA                                                                    |
| switching capacity current                                                                   |                                                                         |
| • acc. to EN 60898 / rated value                                                             | 6 kA                                                                    |
| • acc. to IEC 60947-2 / rated value                                                          | 25 kA                                                                   |
| rated residual switching capacity ( $I_{\Delta m}$ ) / according to IEC 61009-1              | 4.5 kA                                                                  |
| energy limitation class                                                                      | 3                                                                       |
| Dissipation                                                                                  |                                                                         |
| power loss [W]                                                                               |                                                                         |
| • for rated value of the current / at AC / in hot operating state / per pole                 | 1.1 W                                                                   |
| • maximum                                                                                    | 2.2 W                                                                   |

| Current                                                                          |                      |                           |                   |
|----------------------------------------------------------------------------------|----------------------|---------------------------|-------------------|
| tripping fault current / rated value                                             | 30 mA                |                           |                   |
| residual current type                                                            | A                    |                           |                   |
| Product details                                                                  |                      |                           |                   |
| product function / neutral conductor switching                                   | Yes                  |                           |                   |
| product feature / touch protection                                               | Yes                  |                           |                   |
| product feature                                                                  |                      |                           |                   |
| • halogen-free                                                                   | Yes                  |                           |                   |
| • silicon-free                                                                   | Yes                  |                           |                   |
| Connections                                                                      |                      |                           |                   |
| connectable conductor cross-section / solid                                      |                      |                           |                   |
| • minimum                                                                        | 0.75 mm²             |                           |                   |
| • maximum                                                                        | 16 mm²               |                           |                   |
| connectable conductor cross-section / stranded                                   |                      |                           |                   |
| • minimum                                                                        | 0.75 mm²             |                           |                   |
| • maximum                                                                        | 16 mm²               |                           |                   |
| connectable conductor cross-section / finely stranded / with core end processing |                      |                           |                   |
| • minimum                                                                        | 0.75 mm²             |                           |                   |
| • maximum                                                                        | 10 mm²               |                           |                   |
| tightening torque / with screw-type terminals                                    |                      |                           |                   |
| • minimum                                                                        | 1.2 N·m              |                           |                   |
| • maximum                                                                        | 2 N·m                |                           |                   |
| position / of power supply cord                                                  | Either top or bottom |                           |                   |
| Mechanical Design                                                                |                      |                           |                   |
| height                                                                           | 90 mm                |                           |                   |
| width                                                                            | 18 mm                |                           |                   |
| depth                                                                            | 77 mm                |                           |                   |
| installation depth                                                               | 70 mm                |                           |                   |
| number of modular width units                                                    | 1                    |                           |                   |
| mounting position                                                                | any                  |                           |                   |
| net weight                                                                       | 117 g                |                           |                   |
| weight / with packaging                                                          | 133 g                |                           |                   |
| Environmental conditions                                                         |                      |                           |                   |
| influence of the surrounding temperature                                         | Max. 95% humidity    |                           |                   |
| ambient temperature / during operation                                           |                      |                           |                   |
| • 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       | 28                   |                           |                   |
| Certificates                                                                     |                      |                           |                   |
| reference code                                                                   |                      |                           |                   |
| • acc. to DIN EN 61346-2                                                         | F                    |                           |                   |
| • acc. to IEC 81346-2                                                            | F                    |                           |                   |
| General Product Approval                                                         |                      | Declaration of Conformity | Test Certificates |



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#### 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=5SV1316-6KK10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV1316-6KK10>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV1316-6KK10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV1316-6KK10)

**Tender specifications**

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





