

Siemens
EcoTech



RCBO compact 1 MW 1-pole+N 4.5 kA type AC 30 mA C10, use of these devices is not permitted in all countries. Observe national installation regulations!

Figure similar

| Model | |
|--|---|
| product brand name | SENTRON |
| product designation | RCBO |
| design of the product | Instantaneous |
| General technical data | |
| number of poles | 2 |
| number of poles with protection | 1 |
| design of pole | 1P+N |
| tripping characteristic class | C |
| mechanical service life (operating cycles) typical | 10 000 |
| overvoltage category | 3 |
| degree of pollution | 2 |
| Voltage | |
| type of voltage of the operating voltage | AC |
| insulation voltage (U _i) rated value | 253 V |
| surge voltage resistance rated value | 4 000 V |
| tripping fault current rated value | 30 mA |
| <ul style="list-style-type: none"> ● operational current <ul style="list-style-type: none"> — at 30 °C rated value — at 40 °C rated value — at 45 °C rated value — at 50 °C rated value — at 55 °C rated value — at 60 °C rated value — at 65 °C rated value — at 70 °C rated value ● operational current at AC rated value | <ul style="list-style-type: none"> 10 A 9.4 A 9.1 A 8.8 A 8.4 A 8.1 A 7.7 A 7.4 A 10 A |
| residual current type | AC |
| Supply voltage | |
| supply voltage <ul style="list-style-type: none"> ● at AC rated value ● for testing equipment minimum | <ul style="list-style-type: none"> 230 V 195 V |
| operating frequency | 50/60 Hz |
| supply voltage frequency rated value | 50 Hz |

| Protection class | |
|--|---|
| protection class IP | IP20, if the distribution board is installed, with connected conductors |
| Breaking Capacity | |
| switching capacity current | |
| • according to EN 60898 rated value | 4.5 kA |
| • according to IEC 60947-2 rated value | 5 kA |
| short-circuit current breaking capacity (I _{cn}) according to EN 61009-1 rated value | 4.5 kA |
| rated residual switching capacity (I _{Δm}) according to IEC 61009-1 | 4.5 kA |
| energy limitation class | 3 |
| Dissipation | |
| power loss [W] | |
| • maximum | 1.9 W |
| Product details | |
| product feature touch protection | Yes |
| product component neutral conductor switching | Yes |
| product feature halogen-free | Yes |
| product feature silicon-free | Yes |
| Connections | |
| connectable conductor cross-section solid | |
| • minimum | 0.75 mm ² |
| • maximum | 16 mm ² |
| connectable conductor cross-section stranded | |
| • minimum | 0.75 mm ² |
| • maximum | 16 mm ² |
| connectable conductor cross-section finely stranded with core end processing | |
| • minimum | 0.75 mm ² |
| • maximum | 10 mm ² |
| 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 | 126 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 according to IEC 60068-2-30 | 28 |
| Approvals Certificates | |
| Environmental Product Declaration | |
| • global warming potential [CO ₂ eq] / during manufacturing | 1.32 kg |
| • global warming potential [CO ₂ eq] / during sales | 0.0287 kg |
| • global warming potential [CO ₂ eq] / during operation | 16.6 kg |
| • global warming potential [CO ₂ eq] / after end of life | 0.00156 kg |
| • global warming potential [CO ₂ eq] / total | 17.95026 kg |

Environment General Product Approval



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firmations](#)

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firmations](#)



General Product Approval Test Certificates

[Confirmation](#)



[Miscellaneous](#)

[Special Test Certificate](#)

other Dangerous goods



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[Transport Information](#)

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=5SV1313-1KK10>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/5SV1313-1KK10>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV1313-1KK10
- 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>





