RCBO DSH201

Compact solutions for a complete protection in residential applications

- **Test pushbutton**: Test pushbutton to verify the correct functioning of the device.
- **Earth fault indicator**: Blue flag on the toggle to identify earth fault trips. **ON – OFF** indication molded on the toggle.
- **Easy to install**: Supply possible either from top or bottom side with 25 mm² cage terminals with fail safe feature to avoid improper installation.
- **Laser printed information**: Information on the device are laser printed to ensure readability over time.
- **Anti counterfeiting**: DSH201 is equipped with a tag RFID in order to authenticate the product.
- **Dedicated space for label**: Dedicated space to insert labels in order to clearly identify the protected lines.
RCBOs DS201
Better Look & Feel with ABB’s Compact Home range

25 mm² cage terminals with fail safe feature to avoid improper installation. Supply possible either from top or bottom side, with cables and busbars (either PSH and PS). Stable fixing on DIN rail, easy and fast mounting and dismounting operations thanks to the standard mounting clip.

Main technical information and product code are laser printed on the front side, visible also when the device is installed. Range of temperatures from -25 °C (as indicated by the snowflake) up to +55 °C.

Product Made in Italy, with the indication molded on the side. RFID tag on the product side containing a unique serial number assigned to ABB according to the standard ISO/IEC FCD 15693-3 in order to authenticate the product. Tightening torque and stripping length of the cable molded directly on the product side.

Additional information are laser printed on the lateral side of the device, including also the wiring diagram and the EAN code.

Any earth fault can be immediately identified through the blue indicator, that signals the differential tripping and which cannot be activated in case of manual operation on the toggle. Easy troubleshooting and reduced downtime for maintenance operations.
## RCBOs DSH201

### Technical features

<table>
<thead>
<tr>
<th>Standards</th>
<th>IEC/EN 61009-1; IEC/EN 61009-2-1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electrical features</strong></td>
<td></td>
</tr>
<tr>
<td>Type (wave form of the earth leakage sensed)</td>
<td>AC, A</td>
</tr>
<tr>
<td>Number of poles</td>
<td>1P + N</td>
</tr>
<tr>
<td>Rated current In A</td>
<td>6 ≤ In ≤ 40</td>
</tr>
<tr>
<td>Rated sensitivity IΔn A</td>
<td>0.03</td>
</tr>
<tr>
<td>Rated voltage Ue V</td>
<td>230</td>
</tr>
<tr>
<td>Insulation voltage Ui V</td>
<td>500 V AC</td>
</tr>
<tr>
<td>Overvoltage category</td>
<td>III</td>
</tr>
<tr>
<td>Pollution degree</td>
<td>2</td>
</tr>
<tr>
<td>Operating voltage of circuit test Ut V</td>
<td>170 - 254</td>
</tr>
<tr>
<td>Rated frequency Hz</td>
<td>50</td>
</tr>
<tr>
<td>Rated breaking capacity acc. to IEC/EN 61009-1 Icn A</td>
<td>6000</td>
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<tr>
<td>Rated breaking capacity acc. to IEC/EN 60947-2 (only referring to short circuit test) ultimate Icu kA</td>
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<tr>
<td>service Ics kA</td>
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<tr>
<td>Rated residual breaking capacity IΔm according to EN/IEC 61009-1 A</td>
<td>3000</td>
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<tr>
<td>Rated impulse withstand voltage (1.2/50) Uimp kV</td>
<td>4 kV</td>
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<tr>
<td>Dielectric test voltage at ind. freq. for 1 min. kV</td>
<td>2.5 kV (50 / 60Hz, 1 min.)</td>
</tr>
<tr>
<td>Thermomagnetic release characteristic B: 3 In ≤ In ≤ 5 In</td>
<td></td>
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<tr>
<td>C: 5 In ≤ In ≤ 10 In</td>
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<tr>
<td>Energy limiting class acc. to EN 61009-1</td>
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<tr>
<td><strong>Mechanical features</strong></td>
<td></td>
</tr>
<tr>
<td>Housing</td>
<td>Insulation group I - II, RAL 7035</td>
</tr>
<tr>
<td>Toggle</td>
<td>Insulation group II, Black RAL 9005, sealable in ON-OFF positions</td>
</tr>
<tr>
<td>Earth fault trip indication</td>
<td>Blue flag on toggle</td>
</tr>
<tr>
<td>Electrical life operations</td>
<td>10000</td>
</tr>
<tr>
<td>Mechanical life operations</td>
<td>20000</td>
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<tr>
<td>Protection degree acc. to EN 60529 housing IP4X</td>
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<tr>
<td>Mechanical life terminals IP2X</td>
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<tr>
<td>Shock resistance acc. to IEC/EN 60068-2-27</td>
<td>25 g - 2 shocks - 13 ms</td>
</tr>
<tr>
<td>Vibration resistance acc. to IEC/EN 60068-2-6</td>
<td>0.1 mm or 1 g - 20 cycles at 5 ... 150 ... 5 Hz</td>
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<tr>
<td>Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30 °C/RH</td>
<td>28 cycles with 55 °C/90-96% and 25 °C/95-100%</td>
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<tr>
<td>Reference temperature for setting of thermal element °C</td>
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<tr>
<td>Ambient temperature (with daily average ≤ +35 °C) °C</td>
<td>-25...+55</td>
</tr>
<tr>
<td>Storage temperature °C</td>
<td>-40...+70</td>
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<tr>
<td><strong>Installation</strong></td>
<td></td>
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<tr>
<td>Terminal type</td>
<td>top / bottom cage terminal with integrated failsafe</td>
</tr>
<tr>
<td>Terminal size for cables</td>
<td>top / bottom mm² 25/25</td>
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<tr>
<td>Tightening torque</td>
<td>top / bottom Nm 2</td>
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<tr>
<td>Stripping length of the cable mm</td>
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<tr>
<td>Mounting on DIN rail EN 60715 (35 mm) by means of mounting clip</td>
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<tr>
<td>Mounting position</td>
<td>Any</td>
</tr>
<tr>
<td>Supply from</td>
<td>Top/Bottom terminals</td>
</tr>
<tr>
<td><strong>Dimensions and weight</strong></td>
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<tr>
<td>Dimensions (H x D x W) mm</td>
<td>85 x 69 x 35</td>
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<tr>
<td>Weight g</td>
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</table>
**RCBOs DSH201**

**Ordering codes**

**DSH201**

AC type and A \( \times \) type, C and B characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating (only for A type) earth fault currents; protection against indirect contact and additional protection against direct contact (\( I_{\Delta n} = 30 \) mA).

Application: residential

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

\[ I_{cn} = 6000 \ A \]

<table>
<thead>
<tr>
<th>N. poles</th>
<th>Type</th>
<th>Rated residual current ( I_{\Delta n} ) mA</th>
<th>Tripping char.</th>
<th>Rated current In A</th>
<th>EAN</th>
<th>Type code</th>
<th>Order details</th>
<th>Price 1 piece</th>
<th>Weight 1 piece</th>
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| C        | 6    |                                          |                | 353911          | DSH201 C6 AC30 | 2CSR255070R1064 | 0.182         | 1             |           |
|          | 10   |                                          |                | 343615          | DSH201 C10 AC30| 2CSR255070R1104 | 0.182         | 1             |           |
|          | 13   |                                          |                | 244035          | DSH201 C13 AC30| 2CSR255070R1134 | 0.182         | 1             |           |
|          | 16   |                                          |                | 353812          | DSH201 C16 AC30| 2CSR255070R1164 | 0.182         | 1             |           |
|          | 20   |                                          |                | 343516          | DSH201 C20 AC30| 2CSR255070R1204 | 0.182         | 1             |           |
|          | 25   |                                          |                | 353713          | DSH201 C25 AC30| 2CSR255070R1254 | 0.182         | 1             |           |
|          | 32   |                                          |                | 343417          | DSH201 C32 AC30| 2CSR255070R1324 | 0.182         | 1             |           |
|          | 40   |                                          |                | 353614          | DSH201 C40 AC30| 2CSR255070R1404 | 0.182         | 1             |           |

| 1+N A    | 30   | B                                        |                | 6                | 237532 | DSH201 B6 A30 | 2CSR255170R1065 | 0.182         | 1             |           |
|          |      |                                          |                | 10               | 237433 | DSH201 B10 A30| 2CSR255170R1105 | 0.182         | 1             |           |
|          |      |                                          |                | 16               | 237334 | DSH201 B16 A30| 2CSR255170R1165 | 0.182         | 1             |           |
|          |      |                                          |                | 20               | 237235 | DSH201 B20 A30| 2CSR255170R1205 | 0.182         | 1             |           |
|          |      |                                          |                | 25               | 237236 | DSH201 B25 A30| 2CSR255170R1255 | 0.182         | 1             |           |
|          |      |                                          |                | 32               | 237037 | DSH201 B32 A30| 2CSR255170R1325 | 0.182         | 1             |           |
|          |      |                                          |                | 40               | 236931 | DSH201 B40 A30| 2CSR255170R1405 | 0.182         | 1             |           |

| C        | 6    |                                          |                | 269236          | DSH201 C6 AC30 | 2CSR255170R1064 | 0.182         | 1             |           |
|          | 10   |                                          |                | 236832          | DSH201 C10 AC30| 2CSR255170R1104 | 0.182         | 1             |           |
|          | 13   |                                          |                | 236733          | DSH201 C13 AC30| 2CSR255170R1134 | 0.182         | 1             |           |
|          | 16   |                                          |                | 236634          | DSH201 C16 AC30| 2CSR255170R1164 | 0.182         | 1             |           |
|          | 20   |                                          |                | 236535          | DSH201 C20 AC30| 2CSR255170R1204 | 0.182         | 1             |           |
|          | 25   |                                          |                | 236436          | DSH201 C25 AC30| 2CSR255170R1254 | 0.182         | 1             |           |
|          | 32   |                                          |                | 236337          | DSH201 C32 AC30| 2CSR255170R1324 | 0.182         | 1             |           |
|          | 40   |                                          |                | 236238          | DSH201 C40 AC30| 2CSR255170R1404 | 0.182         | 1             |           |

**Connection with busbars**

Cage terminals are designed for installation with PSH busbars, but combination is also possible with PS versions. Details of the most common 12-pins versions.

<table>
<thead>
<tr>
<th>No. of pins</th>
<th>Phases ( mm^2 )</th>
<th>Cu-No. Kg</th>
<th>Bbn 4016779 EAN</th>
<th>Order details</th>
<th>Type code</th>
<th>Order code</th>
<th>Price 1 piece</th>
<th>Weight 1 piece</th>
<th>Pack unit</th>
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<tbody>
<tr>
<td>12</td>
<td>2</td>
<td>10</td>
<td>0.07</td>
<td>651882 PSN 2/12 1)</td>
<td>2CDL120001R1012</td>
<td>0.08</td>
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<td></td>
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</tr>
<tr>
<td>12</td>
<td>2</td>
<td>10</td>
<td>0.07</td>
<td>556521 PS2/12 1)</td>
<td>2CDL120001R1012</td>
<td>0.08</td>
<td>50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) Inclusive of end caps
RCBOs DSH201
Dimensions

Overall dimensions
All measurements in mm