Installation and operating instructions

Residual Current-operated Circuit Breakers with overcurrent protection (RCBO) Type DS 261 / DS 271

GH D270 7021 P2

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1. Technical data: see printing on device

2. Mounting:
   Installation in the desired position by means of snap-on fastening to DIN-rails according to EN 60 715, 35 mm or alu-profile for application e.g. in consumer units and distribution boards.

   ![Mounting diagram]

3. Connection:
   The phase (L) and neutral (N) from the load circuit are connected to the two upper terminals. The black „flying“ neutral supply lead is for the connection to the source neutral supply and the white „flying“ functional earth supply lead is for connection to earth (PE).
   Care should be taken to ensure a good, secure connection to the conductor. Maximum screwdriver torque 3 Nm.

   ![Connection diagram]

4. Operation:
   The DS 261 / DS 271 is switched ON and OFF by means of the black switch handle.

   ![Operation diagram]

5. Functional test:
   For the functional test the switch must be in the ON (I) position and the white test pushbutton has to be pressed. The RCBO must trip immediately, the black switch handle jumps to the lower position with the switch indication O-OFF

   ![Functional test diagram]

Protection against unintentional direct touch acc. to DIN VDE 0106 part 100.
Mounting and dismounting only allowed by an authorized electrician.

The functional test should be repeated monthly, RCBO must trip.

Attention: For fitment on BS aluminium profile it is necessary to break out ONE only profile clip per RCBO to be fitted. (Not two)
6. Testing the protective measures:

As well as the functional test of the RCBO, the effectiveness of the protective measures should be tested for compliance with the relevant specifications. The maximum permissible earthing resistance for the residual current-operated protective switching is:

<table>
<thead>
<tr>
<th>Max. permissible touch voltage $U_t$  a.c.</th>
<th>Max. permissible earthing resistance with rated residual operating current $I_{rn}$</th>
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<tbody>
<tr>
<td></td>
<td>10 mA 25 V 2500 Ω 30 mA 50 V 5000 Ω 300 mA 833 Ω 30 Ω 84 Ω 1666 Ω 164 Ω</td>
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</tbody>
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7. Insulation test:

The device DS 261 / DS 271 must be disconnected before carrying out insulation tests. If insulation testing is carried out on the incoming supply side of the unit, the functional earth must also be disconnected in order to avoid measurement errors. An additional label is supplied. This label should be displayed in a prominent position.

8. Cleaning:

RCBO’s which may have become soiled during assembly work in the switchboard can be cleaned with a damp, soapy cloth. On no account should corrosive or similar solvents be used.

9. Faults:

STOTZ Residual current operated circuit Breakers with integral Overcurrent protection (RCBO) are high quality RCBO’s which are subjected to careful adjustment and testing in the factory.

In the event of damage (e.g. due to transport or storage) no repairs should be undertaken. If the RCBO trips immediately when being commissioned, a check should be made for connections to earth in the down-stream electrical circuits and the appliances connected to them. Any insulation faults between the neutral conductor and the protective conductor should be eliminated.

If the RCBO does not trip during the first functional test, a check should then be made as to whether the test circuit has been correctly connected.

If the installation is correct and the RCBO continues to trip or if the functional test has not been successful the RCBO must be replaced.

10. In case of opening the RCBO, the right to claim under guarantee expires.