

Residual-current circuit-breaker

Order no.:2844

Operation and assembly instructions

1 Safety instructions

Installation and assembly of electrical devices may only be carried out by an electrician.

Failure to observe these instructions may lead to damage to the device, fire, or other hazards.

These instructions are an integral component of the product, and must be retained by the end user.

2 Function

The residual-current circuit-breaker is used to protect persons against residual electrical currents.

The residual-current circuit-breaker is a stationary protective device with voltage-independent residual-current triggering as per VDE 0664.

The residual-current protected outgoing feeders (see Figure 3) are used to connect socketoutlets or other consumers.

The residual-current protection encompasses all devices and cables connected to the residual-current circuit-breaker.

i The electrical wiring upstream of the device is not protected.

1

3 Operation

Making ready for operation





Move switch ((a), Figure 1) to position I.

Carrying out a functional test

i The functional test must be carried out at regular intervals. Recommended: once a month.



The operating voltage is connected.

- Switch on residual-current circuit-breaker ((a), Figure 1) (position I).
 Voltage is present at the downstream socketoutlets and consumers.
- Press test button T ((b), Figure 1).

The residual-current circuit-breaker trips and moves to position **0**. Downstream socketoutlets/consumers are de-energised. The functional test has been passed.

or:

The residual-current circuit-breaker does not trip and remains in position **I**. The residualcurrent circuit-breaker is not operational. Replace the residual-current circuit-breaker and repeat the functional test.

4 Information for electricians

4.1 Assembly and electrical connections

DANGER!

Touching live parts can result in an electric shock. An electric shock may cause death.

Disconnect the power cable before any wiring work.

The wiring must be adapted to the existing power mains. Check the power mains before any wiring work.

i The multi-wire outgoing feeders of the residual-current circuit-breaker are only suitable for connection to socket-outlets or consumers with screw terminals.

Connecting the residual-current circuit-breaker

The connection type must be selected according to the design of the power mains.



Figure 2

Connect the residual-current circuit-breaker (see Figure 2).



3



Figure 3

- Connect the outgoing feeders to the socket-outlet or consumer (Figure 3).
 blue: N
 - brown: L

The residual-current circuit-breaker is now ready for installation.

Disconnecting the terminal leads

 Press lug ((a), Figure 3) on the back of the residual- current circuit-breaker and pull out terminal lead.

Installing the residual-current circuit-breaker

The residual-current circuit-breaker is intended for installation in a standard commercial flushtype combined wall and joint box according to DIN 49073, part 1.

The residual-current circuit-breaker is now ready for installation.

- Position the residual-current circuit-breaker in the flush-type box.
- Screw the residual-current circuit-breaker to the flush-type box using the screw holes in the support ring.
- Position the frame.
- Fit central piece with intermediate ring (see Accessories) and fasten with screws.
 The residual-current circuit-breaker is now ready for commissioning.

4.2 Commissioning

Before commissioning

- carry out a functional test
- test the safety measures

DANGER!

Touching live parts can result in an electric shock.

An electric shock may cause death.

Do not put the residual-current circuit-breaker into operation if the functional test is failed or the maximum permissible earthing resistance is exceeded!



Carrying out a functional test

Test the function (see Operation).
 The residual-current circuit-breaker is now ready for operation.

Testing the safeguards

The safeguard must be tested in accordance with the valid regulations for installation.

Determine earthing resistance.

Maximum permissible touch voltage	Maximum permissible earthing resistance at rated residual current 30 mA
25 V	833 Ω
50 V	1666 Ω

i The maximum permissible earthing resistance must not be exceeded.

5 Annex

5.1 Technical data

Rated voltage	250 V~, 50/60 Hz
Rated current	16 A
Rated residual current	30 mA
Short-circuit strength	3 kA (with back-up fuse 16 A gl)
Operating temperature	-25 +40 °C
Power cable	1,5 2,5 mm ²

5.2 Troubleshooting

The residual-current circuit-breaker trips during operation.

Cause: Connected device(s) are faulty. Check connected devices and exchange if necessary.

5.3 Accessories

Central piece for residual-current circuit-breaker Intermediate ring for central piece 50 x 50 mm .. 1493 1108 .., 1109 ..

5.4 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

Our products are under guarantee within the scope of the statutory provisions.

If you have a warranty claim, please contact the point of sale or ship the device postage free with a description of the fault to the appropriate regional representative.

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