STOTZ Residual Current Operated Circuit Breaker with Overcurrent Release FS 451 T RCBO according to DIN VDE 0664 Part 2 and EN 61009

GH F270 7006 P2



ABB STOTZ-KONTAKT GmbH

P. O. Box 101 680, D-69006 Heidelberg Phone (06221) 701-0, Fax (06221) 701 723



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Residual Current Operated Circuit Breaker with Overcurrent Release (RCBO)

type FS 451 T "multiSTOTZ"

for alternating and pulsating d.c. fault currents

ambient temperatures T_{max} + 55 °C, T_{min} – 25 °C

short circuit protection: let through energy limiting class:



Technical data

see nameplate

Maximum back-up fuse

Protection provided by maximum back-up fuses is only required in cases where the short-circuit current at the mounting position can be expected to exceed the indicaded rated switching capacity.

FS 451 T	max. back-up fuse	
rated current	selective main circuit breaker S 700 E	fuse gL
I _n / A	I _n / A	I _n / A
6	100	63
10 40	100	80

Connection

Incoming supply is connected by means of "Safe Connect" plug-in technology.



In the outgoing circuit ensure that the conductors are properly and firmly connected. Max. tightening torque = 2.5 Nm.

Caution: Installation and removal must be carried out by authorised personnel only.

Operation





ON-OFF position FS 451 T

Operating test

Device must be switched on and system voltage must be applied, press "T" test button briefly; the switch must respond immediately (black operating lever in "0-OFF" position).

Operating tests should be carried out regularly, approximately once every month.



Test of effectiveness of protection

Apart from the RCBO operating test, test the effectiveness of the protection of the installation according to the applicable code of practice.

The maximum permissible earth/electrode resistance values for protection against indirect contact are as follows:

max. permissible touch voltage U_L	max. permissible earth/electrode resistance if rated residual current $I_{\Delta n}$	
	30 mA	300 mA
25 V	833 Ω	83 Ω
50 V	1666 Ω	166 Ω

Cleaning

Dirty RCBOs may be cleaned with a damp cloth moistened with soapy water if dry cleaning is impossible. Never use caustic detergents or solvents.

Maintenance

Except for the regular operating test, no further maintenance measures need to be observed.

Malfunctioning

Where damage occurs (caused by e.g. transport, storage) repair work is not permissible.

If the device responds immediately after putting the RCBO into operation, check the downstream active circuit and any connected current-consuming apparatus for earth fault current or short circuit. Remove any conductive connections between the neutral conductor and the protective conductor existing in load circuit.

Where none of the above causes apply, and the device is still actuated when switched on, or if operating test is completed unsuccessfully after pressing the test button, the RCBO must be replaced.

Opening the device will lead to a loss of warrenty.