

ADOC-3

Transformer Testing



Go/no-go diagnosis in 60 seconds before re-energising

ADOC-3

Distribution transformer tester

amperis

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Detecting short-circuits and open circuits in distribution transformers, from 1 kVA to 3 MVA.

Product overview



The complete kit, ready to use in its semi-rigid case

Knowing whether it is safe to re-close

The ADOC-3 checks de-energised distribution network transformers, from 1 kVA to 3 MVA and 1000 V to 50 kV. In a single test lasting about 60 seconds, it reveals short-circuits and open circuits in the primary winding as well as short-circuits in the secondary, then classifies the transformer into three states — short-circuit, correct or open — announced by high-brightness LEDs and an audible signal. After a line fault or a storm, the operator knows immediately whether re-energising is safe.

Built for field work

The measurement, in low-voltage AC and DC across three channels, is taken by simple contact on the primary bushings: the secondary cables and loads stay in place. The unit covers single-phase transformers, three-phase banks, Yn and Delta couplings, pole-mounted units, pad-mount transformers and dry-type MV units, and checks the integrity of its own leads before every campaign.

Key strengths

- A single test for every winding.
- Operating temperature from -20°C to +60°C.
- 0.47 kg and 177 × 89 × 45 mm: it fits in one hand.
- IP40 / IK06 enclosure with a rubber protective boot.
- 4 alkaline AA batteries (NiMH-compatible) for 8 hours of measurement.
- Automatic shutdown after 15 minutes and a low-battery indicator.



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Kit and accessories



Removable measurement leads with clips and a velcro strap



Adapter pins for transformer elbows

Kit contents

- Compact semi-rigid case with dedicated slots for the accessories.
- Removable, rugged measurement leads with a built-in self-check mode.
- Magnetic strap to secure the unit to the tank, keeping both hands free.
- Rubber boot against drops and liquid splashes.
- Standard AA batteries, replaceable in a few seconds.

Optional accessories

- Spare 1.5 m measurement lead.
- Rigid transport case, 11 × 21 × 30 cm.
- Set of adapter pins for transformer elbows.

Applications

- Checking transformers after a storm or line fault, before re-closing.
- Inspection campaigns on overhead networks and distribution substations.
- Testing de-energised three-phase banks, pad-mount transformers and dry-type MV units.
- Workshop receiving inspection before commissioning.



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ADOC-3 – MEASUREMENT DATA

Detection	Short-circuit, correct, open circuit
Result indication	Audible and visual (high-brightness LED)
Primary configurations	Single-phase, Delta, Yn
Rated transformer voltage	1000 V to 50 kV
Transformer power	1 kVA to 3 MVA
Measurement channels	3
Measurement type	Low voltage, AC and DC, by contact on the primary bushings
Secondary loads	Remain connected during the test
Verification	Self-check of the measurement leads' integrity
Test duration	About 60 seconds; a single test for all windings

Go/no-go type test: the unit does not provide numerical values to interpret.



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ADOC-3 – TECHNICAL SPECIFICATIONS

Operating temperature	-20 to +60°C
Dimensions	177 × 89 × 45 mm
Weight	0.47 kg
Protection ratings	IP40; IK06
Power supply	4 alkaline AA batteries, 1.5 V; compatible with rechargeable NiMH batteries
Autonomy	8 hours of measurement
Power management	Automatic shutdown after 15 minutes of inactivity; low-battery indicator
Self-test	Automatic at power-on; self-check of the leads
Protection	Rubber boot; magnetic mounting strap
Case	Semi-rigid, compact, with accessory storage
Optional accessories	Spare 1.5 m lead; rigid case 11 × 21 × 30 cm; elbow adapter pins



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