

DLT8

VOLTAGE LIMITING DEVICE

UNDER THE NEW NFC 18-510 STANDARD, WORKING ON DISCONNECTED NETWORK REQUIRES EARTHING ON EITHER SIDE OF THE WORK AREA. THE DLT8 IS THE ONLY MEANS AUTHORISED BY THE STANDARD FOR CREATING THE OPENING NECESSARY IN THE EARTHING CIRCUIT TO TAKE CERTAIN MEASUREMENTS.

Use: The voltage limiting device is a single-phase device designed for use on HV lines.

It is designed to be inserted in the earth circuit so as to be able to take measurements with a circuit breaker testing device for example.

The voltage limiting device has two positions:

«OPEN» (position for taking measurements)

- It protects users against accidental voltage feedback by re-forming the earthing circuit.
- It limits the voltage at its terminals to under 50V.

In the CLOSED position, it re-forms the earthing circuit.

⚠ To see the opening of the circuit breaker testing device contact, the earth loop must be OPENED.

But when the circuit breaker is OPEN, an INDUCED voltage generated by the live devices will appear.

This voltage is present at the end of the earthing system, but also on the recording instrument.

When the DLT8 is inserted in the earthing system, it limits to 50Vrms the «touch voltage» and the voltage at the measuring device terminals.

In the event of accidental voltage feedback, the protective earth circuit is instantly re-formed.

When the circuit breaker is CLOSED, the whole system is at earth potential

Technical specifications: Allowable short-term current : 40 kA

NB: The maximum allowable short-circuit current (I_{sc}) by an earthing and short-circuiting device will be given by the element subject to the weakest current in the device's chain.

This value is clearly identified on the device on a short-circuit cable and the user will always need to check before use whether the device's I_{sc} is appropriate to the use and the relevant short circuit risk.

Duration 1 second

Peak current 100 kA

Permanent current that can flow through the DLT8 in the CLOSED position : 400 A

Allowable nominal current (§5.2 of specification HM-21/97/057A) that can pass through the voltage-clipping device in the OPEN position: 40 A

Maximum allowable current (§6.5.1.4 of specification HM-21/97/057A) that can pass through the voltage-clipping device in the ON position: 100 A

Maximum voltage at the DLT8 terminals: 50Vrms.

Max. tightening torque necessary: 20 Nm



Ref.	Description
DLT8ENT	Voltage limiting device
DLT50APE	Voltage limiting device equipped with SMAPE system