



5288A

33kVA, 10/12* kV Mobile Resonating Inductor for use with MIDAS System



The capacitive load range of the MIDAS system can be increased by using this Compensating Reactor (resonating inductor).

The 5288A provide a manual tuneable 10 kV*, 33 kVA inductor coil. It comes into use mainly for power generator or other high capacitive loads on-site testing.

FUNCTION

The variable inductor is connected in parallel with the capacitive test object C_x . This configuration constitutes a parallel resonant circuit.

By adjusting the inductor L_k the resonant point can be balanced.

In this resonant configuration the inductor compensates the reactive power required by the capacitor and only a smaller proportion of real power (ohmic losses) is taken from the main supply.

This arrangement enables measurement of capacitances up to 1 μ F at 10 kV.

Technical Specifications

Max. Operating Voltage	10 kV* rms (50 Hz / 60 Hz)
Frequency	50 / 60 Hz
Maximum Output Current	3.30 A @50 Hz 2.75 A @60 Hz
Maximum Output Power	33 kVA
Inductance range (typical)	9.7 H .. 250 H
Load tuning range	40nF .. 1 μ F @50 Hz 28nF .. 725 nF @60 Hz
PD Level @ Max. Output	<500 pC
Duty cycle at full load	50% at rated output power over a 16h period. Max. ON time: 15minutes
Dimensions WxDxH	58 x 48 x 84cm (23 x 19 x 33")
Weight	135 kg (297 lbs)
Operating Temperature	+5 .. 50°C
Storage Temperature	-20 .. 70°C
Relative Humidity	5 .. 95 % r.h.
Dimensions	58 x 48 x 84 cm

*Max. 12 kV with reduced load

SCOPE OF SUPPLY

5288A resonating inductor including cable set (3m) for complete installation together with MIDAS system.

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