

5289

100kVA, 15 kV Automatic 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 **5289** provide an automatic tuneable 15 kV, 100 kVA inductor coil. It comes into use mainly for power generator on-site testing. Also a separate parallel booster supply for the standard MIDAS system is integrated.

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 portion of real power (ohmic losses) is taken from the main supply. This arrangement enables measurement of capacitances bigger than 1 μF at 15 kV.



TECHNICAL SPECIFICATIONS

Max. Operating Voltage	15 kV rms (50 Hz / 60 Hz)
Frequency	50 / 60 Hz
Maximum Output Current	6.7 A @ 50Hz
Maximum Output Power	100 kVA
Resistance	22.5 Ω @ 20 °C
Load tuning range	0 .. 1.41 μF @ 50 Hz * 0 .. 1.18 μF @ 60 Hz *
PD Level @ Max. Output	< 500 pC
Duty cycle at full load	50 % at rated output power over a 16 h period. Max. ON time: 15 minutes.
Dimensions WxDxH	55 x 71 x 108 cm (22 x 28 x 43 ")
Weight	376 kg (825 lbs)
Operating Temperature	-10 .. 50 °C
Storage Temperature	-20 .. 70 °C
Relative Humidity	5 .. 95 % r.h.

* use additional base load capacitor if load < 250nF

SCOPE OF SUPPLY

- 5289 resonating inductor
- Base load capacitor 400 nF
- Connection cable set MIDAS (3 m)
- Connection cable base load capacitor (20 m)

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