



5289

100 kVA 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 15kV, 100kVA 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 Cx. This configuration constitutes a parallel resonant circuit.

By adjusting the inductor Lk 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 μ F at 15kV.

TECHNICAL SPECIFICATIONS

Max. Operating Voltage	15kV rms (50Hz / 60Hz)
Frequency	50 / 60Hz
Maximum Output Current	7.35A @50Hz 6.11A @60Hz
Maximum Output Power	100kVA
Inductance range	6.5H .. 162H
DC Resistance	22.5 Ω @20°C
Load tuning range	0 .. 1.56 μ F @50Hz * 0 .. 1.08 μ F @60Hz *
PD Level @ Max. Output	<500pC
Duty cycle at full load	50% at rated output power over a 16h period. Max. ON time: 15minutes.
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 400nF
- Connection cable set MIDAS (3m)
- Connection cable base load capacitor (20m)

www.tettex.com

Europe, Asia, South & Central America, Australia

Haefely Test AG
Birsstrasse 300
4052 Basel
Switzerland
☎ +41 61 373 4111
✉ +41 61 373 4912
✉ sales@tettex.com

a brand of

HAEFELY



China (Sales & Service Office)

Haefely Test AG – Beijing Office
8-1-602, Fortune Street
No. 67, Chaoyang Road, Chaoyang District
Beijing, 100025
P. R. China
☎ +86 10 8578 8099
✉ +86 10 8578 9908
✉ sales@haefely.com.cn

North America

Hipotronics Inc.
1650 Route 22
PO Box 414
Brewster, NY 10509
USA
☎ +1 845 279 3644
✉ +1 845 279 2467
✉ sales@hipotronics.com

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