



5288a

Mobile Resonating Inductor
40 kVA, 12 kV

Datasheet



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Designed by



General Description

The 5288a is a manual tunable 12 kV, 40 kVA inductor, to be used with the MIDAS 2881 system to address higher DUT capacitance, typically used on large rotating machines or other high capacitive load while testing on-site.

The variable inductor is connected in parallel with the capacitive test object CX forming a parallel resonant circuit. By adjusting the inductance the resonant point can be reached. At this resonance point the inductor

compensates the reactive power required by the DUT capacitance and only the small portion of real power (ohmic losses) is needed to be fed by the Midas 2881.

This arrangement enables measurement of capacitances up to 1.06 μf at 10 kV and up to 875 nF at 12 kV.

Features

- Max. Operating Voltage 12 kV rms (50 Hz/60 Hz)
- Frequency 50/60 Hz
- Output Power up to 40 kVA
- Inductance range (typical) 9.7 H.. 250 H
- Reduced PD level (< 500pC)

Applications

Combined with MIDAS 2881 it can be used for.

- Measuring power factor (capacitance and $\tan \delta$) of rotating machines on site
- Measuring partial discharges of large rotating machines on site (requires DDX9121b and 9230)

Scope of Supply

- 5288a resonating inductor
- Cable set (3 m) for complete installation together with MIDAS 2881 system
- Operating Manual

Technical Data

Measurement	
Max. Operating Voltage	12 kV rms (50 Hz / 60 Hz)
Frequency	50 / 60 Hz
Max. Output Current	3.30 A @ 50 Hz
Max. Output Power	40 kVA
Load tuning range ⁽¹⁾	48 nF 1.06 µF @ 50 Hz 44 nF 884 nF @ 60 Hz
Load tuning range ⁽²⁾	48 nF 875 nF @ 50 Hz 44 nF 729 nF @ 60 Hz
PD level	< 500 pC
Duty cycle at full load	50 % at rated output power over a 16 h period. Max. ON time: 15 minutes

⁽¹⁾Values for 10 kV

⁽²⁾Values for 12 kV

Environmental	
Operating temperature	+5 °C +50 °C
Storage temperature	-20 °C +70 °C
Humidity	5 .. 95 % r.h.

Mechanical	
Dimensions (W x D x H)	580 x 480 x 840 mm (23 x 19 x 33 in)
Weight	135 kg (297 lb)

Global Presence

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HIGH VOLTAGE



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