



INA 703 MAGNETIC FIELD COIL



- Includes U-shaped double stand with casters
- Complies to IEC 61000-4-8
- Complies to IEC 61000-4-9
- Complies to IEC 61000-4-10
- Multiwire 37 turns - needs low currents to generate the highest required field strengths
- Can be used with programmable AC sources up to highest levels in order to insure low THD
- Taps at 1 and 5 turns to ensure best accuracy for low fields

The INA 703 is the top end of a family of magnetic field coils, designed for testing to IEC 61000-4-8 (supply frequency magnetic fields), IEC 61000-4-9 (pulsed magnetic fields), and IEC 61000-4-10 (oscillatory magnetic fields).

A multi-turn concept (37 turns) allows the INA 703 to generate fields higher than 1000 A/m while using a programmable AC source rated for just 30 A. This enables testing to the IEC 61000-4-8 standards requirement of a current THD < 8%, which can be met only with a programmable AC source.

The INA 703 has taps at turns 1 and 5, providing increased accuracy when generating low amplitude fields.

The tap off after 1 turn is also used for testing to IEC 61000-4-9 and IEC 61000-4-10, which both require a single turn coil.

For testing to IEC 61000-4-8, the INA 703 can be used as an accessory to a Teseq ProfLine system comprising an NSG 1007- 5 kVA source, an INA 2141 impedance box and WIN 2120 software. The system can generate supply frequency fields (50 and 60 Hz) up to 330 A/m continuously and 1100 A/m short term (3 seconds).

The INA 703 can also be used with the MFO 6501 or 6502 current sources and the NSG 3000 series of generators to generate supply frequency fields (50 and 60 Hz) up to 120 A/m continuously and 120 A/m short term (3 seconds).

For testing to IEC 61000-4-9, the INA 703 can be used with a classic Combination Wave generator such as the NSG 3040 or NSG 3060 series plus an INA 752 pulse wave shape adapter.

For testing to IEC 61000-4-10, the INA 703 can be connected to an appropriate Slow Oscillatory Wave generator.

With its multi-turn concept and professional mechanical design features, such as the U-shaped caster base for convenient positioning at the test table, the INA 703 is the ideal accessory for magnetic field testing.

INA 703 MAGNETIC FIELD COIL



ProfLine 2105 systems, incl. NSG 1007 source



MFO 6501 current source



INA 701 and INA 702



INA 752

Technical specifications:

Coil size:	1 x 1 m
Homogeneous field volume:	60 x 60 x 50 cm
Base:	Rigid aluminum frame with casters
Max. vertical positioning height:	130 cm
Turns:	1, 5, 37
Max. continuous supply frequency current:	10 A
Max. short term supply frequency current (3 s):	30 A
Max. continuous supply frequency field strength:	330 A/m
Max. short term supply frequency field strength (3 s):	1100 A/m
Max. pulsed current:	1500 A (8/20 μ s wave)
Max. pulsed field strength:	1200 A/m
Weight:	25 kg

Accessories

Type	Description
Connection cable for INA 2141	INA 3250
Connection cable for MFO 6501 or 6502:	INA 3251
Pulse wave shape adapter for IEC 61000- 4-9 testing:	INA 752
Current probe	MD 300
Manual current source (up to 4 A):	MFO 6501
Automatic current source (up to 4 A):	MFO 6502
Automatic current source (up to 37 A):	NSG 1007-5 kVA (ProfLine 2105)
Other coil models:	
INA 701 – single turn	
INA 702 – multi-turn) (1 turn, 5 turns, 11 turns)	

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