



Portable Power Frequency Magnetic Field Simulator **MFS 40**

- IEC/EN 61000-4-8
- GB/T 17626.8

Features

- > 5.7-inch color touch screen front panel operation
- > Overvoltage and overcurrent protection
- > Compact size, easy to move and operate

Introduction

The MFS 40 Portable Power Frequency Magnetic Field Simulator is a highly reliable test instrument specially designed for power frequency magnetic field immunity tests on electrical and electronic products. It complies with IEC/EN 61000-4-8 and GB/T 17626.8 standards.

It can simulate magnetic field environments of residential areas, commercial zones, industrial and mining enterprises, power plants, as well as medium and high-voltage substations.

Application Areas



Technical Parameters

Magnetic Field Strength	1 ~ 40 A/m @TCXS 111 1.26 μ T ~ 50.40 μ T @ TCXS111
Magnetic Field Output Accuracy	Error: less than 1 dB of the set output value (For very low magnetic field strengths, such as 1 A/m, manual adjustment and calibration are required before testing)
Current Waveform	50 Hz / 60 Hz sine wave
Total Current Harmonic Distortion (THDc)	< 5%
Waveform Interval Time	1 s ~ 9,999 s
Test Duration	1 s ~ 28,800 s
Trigger Mode	Manual, Auto, External Trigger
Magnetic Coil Dimensions	1 m* 1 m (TCXS111)

TCXS111 Parameters

Magnetic Field Strength	1 ~ 40 A/m @ MFS 40 1.26 μ T ~ 50.40 μ T @ MFS 40
Coil factor	0.87 m ⁻¹
Turns	Single turn
Magnetic Field Direction	90°/180°
Max. Current Carrying Capability	AC 120 A max. continuous
Test Duration	≤ 100 A/m continuous, 8 h > 100 A/m short duration, 10 s
Frequency Range	50 Hz / 60 Hz
Coil Dimensions	1,000 mm (D) * 1,000 mm (W)
Overall Coil Dimensions	1,400 mm (D) * 1,000 mm (W); coil height adjustable travel: 500 mm
Package Dimensions	1,500 mm (D) * 1,250 mm (W) * 200 mm (H)
Weight	Approx. 10 kg

General Parameters

Display Screen	5.7" TFT touch screen
Working Power	AC 110 V/220 V, ±10%, 50/60 Hz
Fuse	6 A
Grounding Method	Flat Grounding Wire
Working Status Indication	LED indication and LCD display in front panel
Failure Detection	LCD display in front panel and stop work when failure occurs
Dimension	4U rack, 450 mm * 190 mm * 620 mm
Weight	Approx. 20 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%

Standard Accessories

Power Cord, User Manual, Test Cables, Flat Grounding Wire, Fuse

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