

EMAX Product Information

On-Line Electric Motor Analyzer



- Portable and battery powered
- Monitors Power Quality, Power Circuit, Stator, Rotor, and Air Gap
- Low, medium, and high voltage motors
- Six channel simultaneous acquisition
- Torque and efficiency analysis
- Impedance and phase angle measurement
- Power and current signature tests

DESCRIPTION

The EMAX On-Line motor test equipment offers the most versatile approach to troubleshooting and trending energized electric motors on the market today.

It is equipped with a fully functional laptop computer and loaded with MCE^{Gold}, the golden standard in motor management software.

With MCE^{Gold} the entire test history of your electric motor is at your fingertips and equipped with the latest in acceptance criteria from IEEE and NEMA. Red or Yellow color-coded alarms identify any test data that is outside the acceptance criteria immediately following the test.

The case is made of ultra high impact ABS material for ruggedness. It is easy to carry and no AC power is required, making tough to reach motors or starters easier to test.

Data Includes:

- Current Spectral Analysis
- High Frequency Eccentricity Analysis
- In-Rush/Start-Up
- Phase-to-phase Voltage RMS
- Line-to-Neutral Voltage RMS
- Voltage Imbalance
- Crest Factor
- Total Harmonic Distortion (THD)
- % Full Load Amps
- Average Current RMS
- Phase Current RMS
- Phase Impedance
- Impedance Imbalance
- Power (KW, KVA, KVAR)
- Power Factor
- Efficiency
- Output Power
- Torque
- More...

DESCRIPTION

Voltage input range:

AC 100-240 V, 50/60 Hz (computer)

Voltage measurement:

0-600 VAC

Direct line $\pm 1\%$ (10 to 100% of range)

Secondary line $\pm 1\%$ + PT error (10 to 100% of range)

Current measurement:

$\pm 0.5\%$ of input (plus the \pm accuracy of the probes)

Standard current probes:

PdMA 2128.14

$\pm 1\%$ (of reading) $\pm 0.1\text{mV}$ from 1 to 12A
@100mV/A

$\pm 1\%$ (of reading) $\pm 2\text{mV}$ from 10 to 80A
@10mV/A

$\pm 2.5\%$ (of reading) $\pm 2\text{mV}$ from 100 to 150A
@10mV/A

Power measurement:

THD/HVF/ Spectrum – 50th harmonic

Current spectrum analysis:

8000 lines resolution

Dimension:

18.5 x 14.5 x 6 in.

46.99 x 36.83 x 15.24 cm.

Weight:

19 – 23 lbs.

8.62 – 10.43 kg.

Lead set:

Four 8 ft. (2.44 m.) fused voltage leads for 3 phases and ground.

Voltage probe accessory kit

Three 15 ft. (4.57 m.) AC/DC current probes for three phases

Environmental Operating temperature:

41°F to 95°F

5°C to 35°C

Storage temperature:

-4°F to 104°F

-20°C to 40°C

Humidity:

20% - 80% non-condensing

ATTENTION

Accuracies and Resolutions are subject to change without notice.