

DIGITAL MOTOR CHECKER EMC-38

Electric Motor, Generator and Transformer Trouble Shooter
**Know in a few minutes what the problem is: Electrical or Mechanical,
coil or rotor, internal fault or ground fault**



Futures:

- Insulation Resistance (IR) Measurement
- Identify open and short circuits / loose connections in a winding coil
- Identify intertern shorts.
- Detect rotor bar problems without dismounting the rotor
- Inductance of the winding with respect to different positions for rotor for detecting blow holes or cracks in the rotor bars.
- Simple operation, accurate & quick assessment of motor condition.
- Shock proofed rubber casing
- Low battery Indication

Fast Checks of On-Line Motors:

EMC-38 is a Digital portable diagnostic tool for Electrical Engineer and is used for quick on - site checks of electric motor and other three - phase machines.

A reduction in machine performance, such as inefficient operation or tripping of overloads, may indicate mechanical or electrical faults. If the fault is electrical the EMC-38 will immediately defect it, without having to dismantle the equipment.

The instruments has three separate operating modes to measure different types of faults like fully insulation, **open circuits / loose connections**, **short circuits** and **rotor defects**. Motor insulation is tested with a high voltage of 500V & 1000V DC supplied by the instrument.

Technical Specifications

A) **INSULATION RESISTANCE:** 0 – 200 M Ω at 500 V DC \pm (2% + 1digit), 0.1 M Ω resolution
0 – 2000 M Ω at 1000 V DC \pm (2% + 1digit), 0.1 M Ω resolution

B) **RESISTANCE:** RANGE RESOLUTION

0 - 200 milli Ω 0.10 milli Ω

0 – 2 Ω 0.001 Ω

0 – 20 Ω 0.01 Ω

0 – 200 Ω 0.10 Ω

C) **INDUCTANCE:** RANGE RESOLUTION

0 – 2 m H 0.001 mH

0 – 20mH 0.01 mH

0 –200 mH 0.1 mH

0 –2000 mH 1 mH

* Display: 3½ LCD * Temp.Range: 0- 55°C * Size: 210x125x65 * Weight: 1000gms * Power: 6 AA size
(Battery Pack with Charger Optional)

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