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?



Features:

- Insulation Resistance (IR) Measurement
- Identify open and short circuits / loose connections in a winding coil
- Identify inter turn shorts.
- Detect rotor bar problems without dismantling 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 & guick assessment of motor condition.
- **Shock Proof Rubber Casing**

Fast Checks of On-Site 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 detect 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 at 500V & 1000V DC supplied by the instrument.

Technical Specifications

A) INSULATION RESISTANCE: 0 - 200 M at 500 V DC ± (2% + 1digit), 0.1 M resolution $0 - 2000 \, \text{M}$ at 1000 V DC ± (2% + 1digit), 1 M resolution

| B) RESISTANCE: | RANGE | RESOLUTION | TOLERANCE |
|----------------|---------------|------------|------------------|
| | 0 - 200 milli | 0.10 milli | ± 2% |
| | 0 - 2 | 0.001 | ± 2% |
| | 0 - 20 | 0.01 | ± 2% |
| | 0 - 200 | 0.10 | ± 2% |
| C) INDUCTANCE: | RANGE | RESOLUTION | TOLERANCE |
| | 0 - 2 mH | 0.001 mH | ± 3% |
| | 0 – 20mH | 0.01 mH | ± 3% |
| | 0 –200 mH | 0.1 mH | ± 3% |
| | 0 –2000 mH | 1 mH | ± 3% |

^{*} Display:3½ LCD * Temp.Range:0- 55°C * Size:210x125x65 * Weight:1000gms * Power:1.5V x 6 AA size Cells (Optional Accessory: Rechargeable Battery Pack with Charger)

Standard Supply:

- 1). Motor Checker EMC-38, 2) Leads (Clips)-1set, 3) Batteries-6 nos,
- 4) Test & Calibration Report with Warranty/Guarantee Certificate, 5) Manual & 6) Carry Case.

MCM INSTRUMENTS

(An ISO 9001:2008 Certified Company)

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