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 & quick 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 : $0-200~\text{M}\Omega$ at 500~V DC ± (2% + 1digit), $0.1~\text{M}\Omega$ resolution $0-2000~\text{M}\Omega$ at 1000~V DC ± (2% + 1digit), $1~\text{M}\Omega$ resolution

B) RESISTANCE:	RANGE	RESOLUTION	TOLERANCE
C) INDUCTANCE:	$0 - 200 \text{ milli } \Omega$ $0 - 2 \Omega$ $0 - 20 \Omega$ $0 - 200 \Omega$ RANGE $0 - 2 \text{ mH}$ $0 - 20 \text{ mH}$ $0 - 200 \text{ mH}$ $0 - 2000 \text{ mH}$	$\begin{array}{c} 0.001~\Omega\\ 0.01~\Omega\\ 0.10~\Omega\\ \hline \textbf{RESOLUTION}\\ 0.001~\text{mH}\\ 0.01~\text{mH}\\ 0.1~\text{mH} \end{array}$	± 2% ± 2% ± 2% ± 2% TOLERANCE ± 3% ± 3% ± 3% ± 3% ± 3%

^{*} Display:3½ LCD * Temp.Range:0-55°C * Size:210x125x65 * Weight:1000gms * Power:1.5V x 6 AA size Cells

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.

Technical Data are subject to change without Prior Notice.

MCM INSTRUMENTS

(An ISO 9001:2015 Certified Company)

Office: Plot no:146, Phase-I, Near Seeds School, Mythri Nagar, Madinaguda, Hyderabad – 500 118. Telangana. India. Works: Plot No.82, "MCM BHAVAN", Sai Anurag Colony, Sri Chaitanya IIT Academy Lane, Bachupally-500090.

Email: mcm_instrument@yahoo.co.in / info@mcminstruments.com For our Products Catalogs, log on to www.mcminstruments.com

Tel: + 91 9440845436, +91 9440375328