NEW

# DIGITAL MOTOR CHECKER EMC-38A

- National Electric Motor, Generator and Transformer Trouble Shooter
- $ilde{\mathbb{N}}$  Know in a few minutes what the problem is: Electrical or Mechanical ?
- N Complete Condition of STATOR, ROTOR, Coil, Connections, internal fault or ground fault?



### **Features:**

- Very handy
- Light Weight
- Insulation Resistance (IR) Measurement
- Identify open and short circuits / loose connections in a winding coil
- Identify interterm 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.
- Low battery Indication

#### **PREDICTIVE MAINTENANCE:**

Regular testing can identify developing faults before a failure occurs. All measurement data can be trended for predictive maintenance condition monitoring. By making proactive repairs and eliminating unscheduled down-time, plant productivity is greatly improved.

**EMC-38A** 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-38A will immediately detect it, without dismantling the equipment. The instrument has three separate operating modes to measure different types of faults like fully insulation, open circuits / loose connections, short circuits, Ground faults and rotor defects. Motor insulation is tested with a high voltage at 500V & 1000V DC supplied by the instrument.

**Motor Checker EMC-38A** finds the faults you can't see with any other hand held instrument

- Turn -to-turn, coil-to-coil and phase-to-phase faults
- Open phase
- · Burned or contaminated winding
- Poor Connections
- Broken / Cracked rotor bars
- Grounded windings
- Cable faults.



## **Technical Specifications**

A) INSULATION RESISTANCE: 0 − 200 M at 500 V DC ± (2% + 1digit), 0.1 M resolution

0 − 2000 M at 1000 V DC ± (2% + 1digit), 1 M resolution

B) RESISTANCE	RANGE	(OHMS) F.S.R	RESOLUTION	TOLERANCE
	1	200	0.10	± 2%
	2	20	0.01	± 2%
	3	2	0.001	± 2%
	4	0.2 (200m )	0.10 milli	± 2%

C) INDUCTANCE	RANGE	(mH) F.S.R	RESOLUTION	TOLERANCE
	1	2000	1 mH	± 3%
	2	200	0.1 mH	± 3%
	3	20	0.01 mH	± 3%
	4	2	0.001 mH	± 3%

Display: 3½ LCD

Temp. Operating Range:0- 55°C

Size: 237x131x45Weight:500gms

Power: 1.5V x 6 AA size Cells / (Optional Accessory: Rechargeable Battery Pack with Charger)

Enclosure: Moulded in high impact ABS

#### **Standard Supply:**

- 1. Motor Checker EMC-38A
- 2.Test Leads (Clips) 1set
- 3. Batteries 6 nos / (Optional Accessory: Rechargeable Battery Pack with Charger)
- **4.Instruction Manual**
- 5.Test & Calibration Report with Warranty/Guarantee Certificate
- **6.Carry Case**



## **MCM INSTRUMENTS**

(An ISO 9001:2008 Certified Company)

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