

NEW

# DIGITAL MOTOR CHECKER EMC-38A

- Electric Motor, Generator and Transformer Trouble Shooter
- Know in a few minutes what the problem is: Electrical or Mechanical ?
- 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:

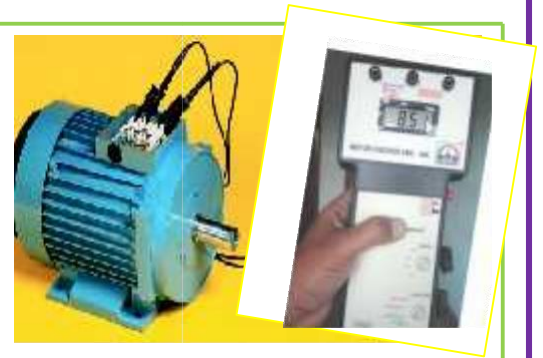
Regular testing can identify developing faults before a failure occurs. All measurement data can be trended for predictive maintenance condition monitoring. By making proactive repairs and eliminating unscheduled down-time, plant productivity is greatly improved.

**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

<b>A) INSULATION RESISTANCE:</b>	0 – 200 M $\Omega$ at 500 V DC $\pm$ ( 2% + 1digit), 0.1 M $\Omega$ resolution 0 – 2000 M $\Omega$ at 1000 V DC $\pm$ (2% + 1digit), 1 M $\Omega$ resolution			
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<b>B) RESISTANCE</b>	<b>RANGE</b>	<b>(OHMS) F.S.R</b>	<b>RESOLUTION</b>	<b>TOLERANCE</b>
	1	200	0.10 $\Omega$	$\pm$ 2%
	2	20	0.01 $\Omega$	$\pm$ 2%
	3	2	0.001 $\Omega$	$\pm$ 2%
	4	0.2 (200m $\Omega$ )	0.10 milli $\Omega$	$\pm$ 2%

<b>C) INDUCTANCE</b>	<b>RANGE</b>	<b>(mH) F.S.R</b>	<b>RESOLUTION</b>	<b>TOLERANCE</b>
	1	2000	1 mH	$\pm$ 3%
	2	200	0.1 mH	$\pm$ 3%
	3	20	0.01 mH	$\pm$ 3%
	4	2	0.001 mH	$\pm$ 3%

- Display: 3½ LCD
- Temp. Operating Range:0- 55°C
- Size: 237x131x45
- Weight:500gms
- Power: 1.5V x 6 AA size cells
- Enclosure: Moulded in high impact ABS

### Standard Supply:

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

Technical Data are subject to change without Prior Notice.



## **MCM INSTRUMENTS**

**(An ISO 9001:2015 Certified Company)**

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