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Stator Core Fault Detection

Motor Core Tester - Model MCT2

A cost-effective instrument for quickly testing stator cores or checking motor windings on electric motors, the **MCT 2** is an improved version of the original Motor Core Tester (MCT) instrument. Ideal for quality assurance in motor manufacture, it uses low excitation current and power to test motor laminations without any heat or risk of damage. The **MCT 2** does not provide a permanent record of the test results but instead has a meter and headphone for outputs. The **MCT 2** can also be used to locate faulty rotor bars.

Motor Core Tester - MCT2 Features

- Easily detect a stator core fault in an electric motor core
- Low power tester for stator lamination faults

Stator cores are normally tested by heating them with high levels of flux and checking for hot spots. This is a time consuming and labour intensive process which could result in stator core failure or stator core damage.

Electric motor testing using the **MCT2 Motor Core Tester** means detection of stator lamination faults in motors at a low level of electrical flux, typically 4% of normal operating flux. A sense head coil detects any circulating fault currents caused by imperfections in the core. When testing electric motor stator cores, the fault currents are processed by the **MCT2** and displayed on a meter on the front panel.

Motor Core Tester Specifications

Mains Power	Supply	90-132V, 180-264V, 50/60Hz
	Consumption	10VA
Battery	Average Running Time	20 Hours
	Average Charging Time	5 Hours at 115/230V
Calibration	Internal Self Test	1A
Environmental	Operation Temperature	0 °C to +45 °C
	Storage Temperature	-20 °C to +60 °C
	Relative Humidity	0-95% RH (non-condensing)
	EMC	EN61326
	Safety	EN61010-1
Lead Lengths	Compliance	CE
	Chattocks	6m (except 275mm which is 8m)
	Clip-on Current Probe	6m
Output	Meter	11 Ranges (0.02A- 50A)
	Headphones	100 mV
Dimensions	Instrument	185mm X 325mm X 263mm (7.3" X 12.8" X 10.4")
	Case	420mm (H) X 670mm (W) X 260mm (D)

		(16.5" X 26.4" X 10.2")
Weight	Instrument	5.5Kg (11lbs)
	Complete Kit in Case	18Kg (40lbs)
Compliance:	CE	

Specifications subject to change without notice

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