



# MOTOR TEST SET MODEL MTS50NVD

## Description

The MTS50NVD is a combination AC/DC Motor Test Set specifically designed to provide economical testing capability for the smaller repair shop or for the small motor department of the larger shop. Designed and manufactured with the same attention to detail as our high-power sets, the MTS50NVD has a tapped, non-variable output to start and run AC or DC motors.

**INPUT:** 208/220/230/240 VAC\*, 200 A, 60Hz, 3-phase

\*Must be specified

### AC OUTPUT

Tap	Low Range		High Range	
	Voltage	Current	Voltage	Current
1	30VAC	400AAC	60VAC	400AAC
2	100	200	208	200
3	115	200	230	190
4	230	100	460	95
5	277	100	575	75

**Duty Cycle:** 1 hour ON/1 hour OFF at 50 kVA

### DC OUTPUT

#### ARMATURE SUPPLY

Tap	Low Range		High Range	
	Voltage	Current	Voltage	Current
1	40 VDC	100 ADC	80 VDC	100 ADC
2	140	100	280	100
3	155	100	310	100
4	310	100	620	100
5	375	100	750	100

#### FIELD SUPPLY

**Continuously Adjustable:** 0-300 VDC, 10 ADC

**NOTE:** Output voltage may vary with load conditions and line fluctuations.

## Standard Design & Safety Features

- ▼ Fused input power protection
- ▼ ON/OFF pushbuttons with indicator
- ▼ Flashing warning lamp
- ▼ Thermal overload protection on main transformer
- ▼ Manual tap selector switch
- ▼ AC/DC output selector switch
- ▼ 15 ft. (4.5 m) output cables with storage hook

## Instrumentation

The MTS50NVD has complete instrumentation for definitive voltage and current measurements of motors under test.

### AC OUTPUT

**Voltmeter:** 4½" square analog with phase selector switch, Range: 0-600 VAC, Accuracy: ± 2% FS

**Ammeter:** 3½ digit; digital meter with LCD display, Range: 0-199.9/400AAC, Accuracy: ± 1% FS

### DC ARMATURE OUTPUT

**Voltmeter:** 4½" square analog Range: 0-800 VDC, Accuracy: ± 2% FS

**Ammeter:** 4½" square analog 0-100 ADC, Accuracy: ± 2% FS

### DC FIELD OUTPUT

**Voltmeter:** 4½" square analog Range: 0-300 VDC, Accuracy: ± 2% FS

**Ammeter:** 4½" square analog Range: 0-10 ADC, Accuracy: ± 2% FS

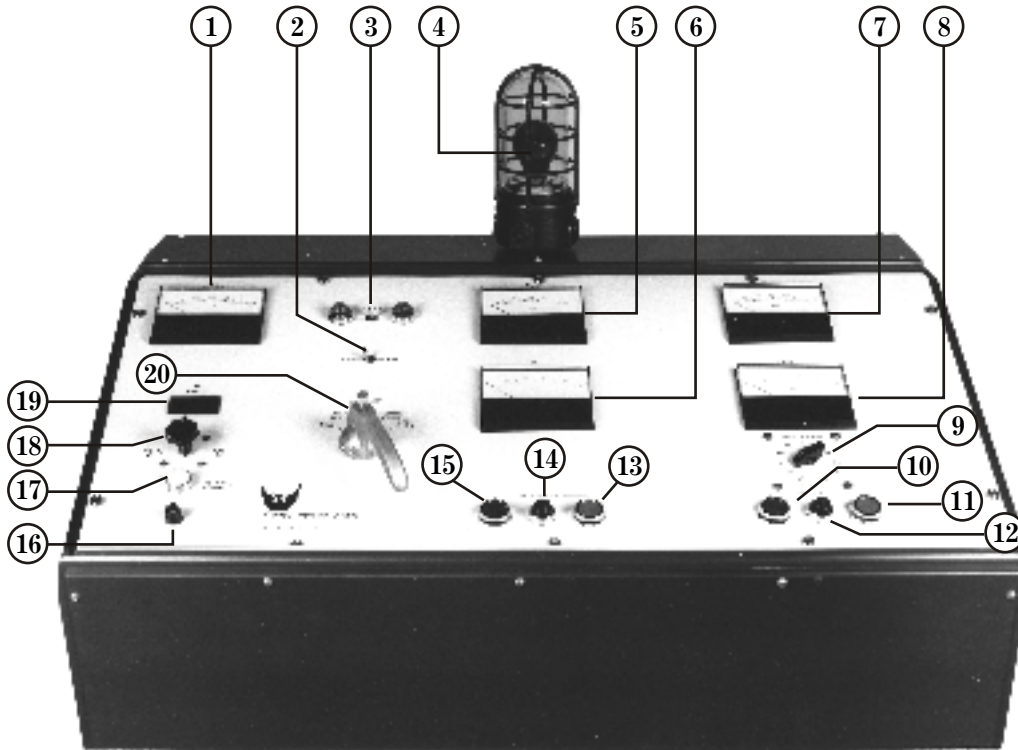
## Dimension/Weight

38" W x 26" D x 53" H; 1175 lbs.  
(965mm W) x (660mm D) x (1346mm H); (533 kg)



Model MTS50NVD

## Control Panel Layout



1. AC voltmeter
2. Range selector switch for voltage output
3. AC/DC selector switch with indicator lights
4. Flashing warning light
5. DC armature voltmeter
6. DC armature ammeter
7. DC field voltmeter
8. DC field ammeter
9. DC field voltage control
10. Field supply "ON" switch
11. Field supply "OFF" switch
12. Field supply indicator light
13. High voltage "OFF" switch
14. High voltage indicator light
15. High voltage "ON" switch
16. Control power fuse
17. Control power indicator light
18. AC phase selector switch
19. AC ammeter
20. Tap selector for voltage output

Specifications are subject to change without notice.

## The PHENIX Technologies Product Line

- ▼ High Voltage AC Dielectric Test Sets
- ▼ Resonant Test Sets
- ▼ Variable Frequency Resonant Test Sets
- ▼ DC Hipots and Insulation Test Sets
- ▼ Automatic Insulating Material Testers (D149)
- ▼ Microhmmeters
- ▼ Liquid Dielectric Test Sets
- ▼ Megohmmeters
- ▼ AC/DC Kilovoltmeters
- ▼ Partial Discharge Detector
- ▼ Vacuum/Oil Interrupter Testers
- ▼ Bucket Truck Testers
- ▼ High-Frequency Cable Aging Test Sets
- ▼ Heat Cycling Test Sets
- ▼ Rubber Goods-Protective Equipment Testers
- ▼ Core Loss Testers
- ▼ AC, DC and AC/DC Motor Test Sets
- ▼ Water Brake Dynamometers
- ▼ Transformer Test Sets
- ▼ Frequency Response Analyzer
- ▼ High Current / Circuit Breaker Test Sets
- ▼ Recloser Test Sets
- ▼ DC Power Supplies
- ▼ High Voltage DC Cable Thumpers
- ▼ High Voltage Terminations
- ▼ High Power Column-Type Variable Transformers
- ▼ High Power Thoma-Type Variable Transformers
- ▼ Voltage and Current Stabilizers
- ▼ Impulse Generators/Standard Capacitors/  
Coupling Capacitors

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