



HIPOTRONICS
THE MEASURE OF A LEADER

Medium Power - Motor Test Systems

FEATURES

- Main power circuit breaker
- Emergency off mushroom switch
- Warning lamp
- Control power circuit breaker
- Motorized tap selector switch
- 5 amp ground fault detector
- Primary overload protection
- Digital voltage and current meters
- Voltage ON/OFF pushbuttons
- Off zero lamp
- Field loss indicator
- Field supply selector switch
- Field power circuit breaker
- Field overload
- Field undercurrent relay
- Synchronous switch
- Interlocked HV taps
- Calibration facilities
- 15 foot output cables
- Lifting provision (crane and forklift)

BENEFITS

- Variable transformer offers the most stable output available
- Continuously variable voltage from near zero to full voltage
- Complete metering to verify conditions of motor under test
- Integral safety and overload protection



Model MTC-100V/6

DESCRIPTION

Hipotronics manufactures a complete line of Motor Test Systems serving the motor repair industries. Since 1962 Hipotronics is the largest manufacturer serving the Motor Test Industry with quality test equipment for all aspects of the electrical manufacturing and repair markets. Motor Test Systems are available in AC, DC or combination (AC/DC) configurations to suit your exact requirements. Hipotronics has a strong commitment to making the most reliable equipment available, we take extra steps in the construction of our test sets to assure many years of reliable service. All power transformers are vacuum pressure impregnated (VPI), and we construct our own tap switches which have proven themselves far superior to commercially available units commonly used. Please use this information as a guide and contact our sales department for further details.

SPECIFICATIONS

| MODEL | MTC-100V/6 | MTC-150V | MTC-300V | MTC-500V | MTC-750V | |
|---------------------------------|---|-------------------------|-------------------------------------|-------------|-------------|-------------|
| SYSTEM KVA | 100KVA | 150KVA | 300 KVA | 500 KVA | 750 KVA | |
| INPUT REQUIREMENT: | VOLTAGE | 480V AC, 3-Phase, 60 Hz | | | | |
| | CURRENT | 120 A | 180 A | 400 A | 600 A | 900 A |
| AC NO-LOAD TEST CAPABILITIES* | 500 HP | 750 HP | 1500 HP | 2500 HP | 3750 HP | |
| AC FULL LOAD TEST CAPABILITIES* | 100 HP | 150 HP | 300 HP | 500 HP | 750 HP | |
| OUTPUT TAP | | | | | | |
| 0 TO 240V | 240A | NA | NA | NA | NA | |
| 0 TO 480V | NA | 180 A | 400 A | 600 A | 900 A | |
| 0 TO 600V | 96 A | 144 A | 300 A | 480 A | 720 A | |
| 0 TO 1200V | NA | 72 A | 150 A | 240 A | 360 A | |
| 0 TO 2400V | NA | 36 A | 75 A | 125 A | 188 A | |
| 0 TO 3300V | NA | NA | 50 A | 85 A | 130 A | |
| 0 TO 4160V | NA | NA | 42 A | 70 A | 104 A | |
| 0 TO 7200V | NA | NA | Optional | Optional | Optional | |
| 0 TO 11,000V | NA | NA | NA | Optional | Optional | |
| 0 TO 13,800 V | NA | NA | NA | Optional | Optional | |
| DC ARMATURE SUPPLY: | VOLTAGE | 0-750V DC | 0-650V DC | 0-650V DC | 0-650V DC | 0-750V DC |
| | CURRENT | 120 Amperes | 200 Amperes | 425 Amperes | 625 Amperes | 900 Amperes |
| DC FIELD SUPPLY | 0-300V DC 10 Amperes | | 0-700V DC 90 Amperes, 5% Ripple RMS | | | |
| FIELD SUPPLY #2 (optional) | 0-12V DC 500 Amperes, 48% Ripple RMS | | | | | |
| DUTY CYCLE | Continuous, 110% 1 Hour ON/ 1 Hour OFF, 250% for 1 Minute | | | | | |

- *No-Load and Load calculations are approximate and could vary with your specific application.
- For Motor Test Sets with AC output only, DC specifications in the shaded area above are eliminated. The Model prefix is changed to MTA. All other specifications above remain unchanged.
- Larger units are available, please refer to High Power Motor Test Systems, MTS-HP-DS1.
- For complete specifications for a particular model, please contact Hipotronics.

OPTIONAL EQUIPMENT

- Data Acquisition System with Software
- Dynamometer Metering Integration
- Vibration Analyzer
- Digital Tachometer
- Temperature Meter
- Wattmeter
- Additional Voltage Taps
- Optional Series Field Supply
- Remote Connection Cubicle

For further information, contact:

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NOTE: Because Hipotronics has a policy of continuous product improvement, it reserves the right to change design and specifications without notice.