

# Motor Controls Training Systems

Educational Training Equipment for the 21st Century

Bulletin 254-3F



Dimensions: 12"H x 24"W x 24"D  
Shipping Weight: 90 lbs.



Shorted and open components and circuits are simulated with fault switches on rear of unit.

## Purpose

The Hampden **MODEL H-MCTT** provides the necessary control components for a thorough study of the characteristics, wiring, operation and troubleshooting of motor control circuits. These components are, for the most part, identical to those found in industry. The single exception is that they operate on 24 volts, virtually eliminating shock hazard.

## Hampden H-MCTT Motor Control Troubleshooting Trainer

## Description

Forty fault switches, behind the rear lockable panel, permit the instructor to insert up to 77 faults. The self paced text/manual, "Troubleshooting Industrial Motor Control", contains detailed step-by-step instruction in troubleshooting techniques. A built-in continuity test lamp simplifies circuit training, which plugs into a single-phase AC receptacle. Furnished complete with interconnecting cords.

## Hampden H-DMCTT Digital Motor Control Troubleshooting Trainer

## Purpose

The Hampden **MODEL H-DMCTT** Digital Motor Control Troubleshooting Trainer provides interactive motor control troubleshooting training via computer to a student operator wanting exposure to connection and operation, without bulky hardware and electrical hookups.

## Operation

The computer is the tool that allows the student to explore motor control and troubleshooting, with interactive prompting on the computer screen for student operation. The instructor inserts a fault and turns the trainer over to the student for troubleshooting. The trainer may be put into a programmed sequence of faults that pace the student through an instructor selected range of faults.

This trainer includes the H-LTCS Laptop Computer.

The following five circuits are represented:

- Three wire control circuit
- Multiple station control circuit
- Sequence control circuit
- Reverse starter control circuit
- Compelling control circuit

## Description

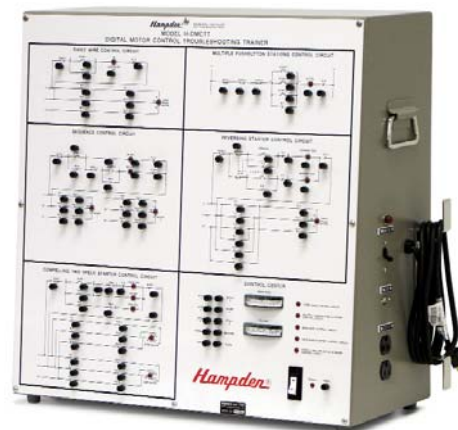
The Hampden **MODEL H-DMCTT** Digital Motor Control Troubleshooting Trainer consists of a motor control troubleshooting panel, I/O interface cord, interconnection cables, and operational software.

The software includes instructor's setup program, complete with password, master fault list, number of fault identification attempts, and running time with limit option. The troubleshooting program provides both skills and tutorial operation.

Indicator lamps (LEDs) represent motor coils and motors. An AC voltmeter, ohmmeter, and panel power supply with switch and indicator lamp are provided. Also provided is a bank of eight pushbuttons representing motor control functions.

## Input Voltage

This unit operates on single-phase AC power, 50/60 Hz.



**The Hampden MODEL H-DMCTT**  
Digital Motor Control Troubleshooting Trainer  
Dimensions: 26"H x 24"W x 11"D  
Shipping Weight: 75 lbs.

All Hampden units are available for operation at any voltage or frequency

**Hampden**  
ENGINEERING CORPORATION