

# Electrical Circuit Trainers

Educational Training Equipment for the 21st Century

Bulletin 247-1L

## H-MCCT-1 Motor Control Circuits Trainer



Dimensions: 71"H x 48"W x 33"D  
Shipping Weight: 520 Lbs.

The Hampden **Model H-MCCT-1** Motor Control Circuits Trainer provides a practical means of learning how to design, wire, check-out, and troubleshoot motor control circuits. The student is introduced to the elements of motor control circuitry through the texts and manuals provided. They are then given problems in circuit design, which they can solve on the Motor Control Circuits Trainer using standard commercial control components.

The component panel contains the following, prewired and ready for use:

- 3-pole Fuse Block
- Control Transformer
- Magnetic Contactor (2)
- Limit Switch
- Proximity Switch
- Overload Relay (2)
- Multipole Relay
- Timer Relay (2)
- Magnetic Relay
- Pushbutton Station (2)

In addition, a three-phase induction motor with prony brake is supplied for use with the **Model H-MCCT-1**. A 120/208 volt, 4-wire, 3-phase supply cord provides a capability for common-control or 120 volt separate control. Furnished complete with interconnecting cords, which plug into Hampden heavy-duty binding posts. The component panel is mounted on a mobile frame. This unit is also supplied with 12 prewired instructor controlled faults.

\*Wired to Hampden HR-1S socket receptacles

## H-RET-2A Residential Electricity Trainer



Dimensions: 36"H x 36"W x 13"D  
Shipping Weight: 175 Lbs.

The Hampden **Model H-RET-2A** Residential Electricity Trainer consists of electrical components and instrumentation for demonstration and practical exercises in electrical circuits and measurements.

The unit is constructed of a steel frame finished in instrument tan texture and gloss white enamel finished front panel. The front panel is silk-screened with black KEM enamel for easy identification of components.

The component panel contains the following, prewired and ready for use:

- Watthour meter with socket
- Lamp socket (2), with 7.5 watt lamp\*
- Pilot Light, (3)
- Duplex Receptacle, (3) utility
- Duplex Receptacle, (2)\*
- Switch, three-way (2)\*
- Buzzer, low voltage\*
- Door Bell Pushbutton switch\*
- Circuit Breaker, 1-pole (4)
- AC Voltmeter, 0-15V AC\*
- AC Voltmeter, 0-150V AC\*
- AC Ammeter, 0-1A AC with circuit breaker\*
- AC Ammeter, 0-10A AC with circuit breaker\*
- Transformer, low voltage 4, 8, 16 and 24V AC with pilot light\*
- 120V AC 1Ø 3/c #16 6 ft. cord
- Safety Cord, (12)
- Courseware

## H-MCWT-1 Motor Control Wiring Trainer



Dimensions: 24"H x 24"W x 11"D  
Shipping Weight: 175 Lbs.

The Hampden **Model H-MCWT-1** Motor Control Wiring Trainer consists of low voltage electrical components for demonstration and practical exercises in motor starting and control.

The unit is constructed of a steel frame finished in instrument tan texture and gloss white enamel finished front panel. The front panel is silk-screened with black KEM enamel for easy identification of components.

The component panel contains the following, prewired and ready for use:

- Pushbutton - start (2)\*
- Pushbutton - stop (2)\*
- Selector switch - 2 position\*
- Joystick switch - 3-position\*
- Lamp base receptacle (2)\*
- Lamps - 24V AC (2)
- Buzzer - 24V AC\*
- Motor starter - manual\*
- Relay control - 4PDT w/ 24V AC coil (2)\*
- Relay control - 2PDT w/ 24V AC coil (2)\*
- Main circuit breaker switch and omniglow pilot lamp
- Reversing motor - 24V DC w/rectifier assembly\*
- Power Supply (120/24V AC)\*
- Patch cords (30)
- Power cord storage rack
- 120V AC 1Ø 3/c #16 6 ft. cord
- Courseware

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



**Hampden**  
ENGINEERING CORPORATION

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