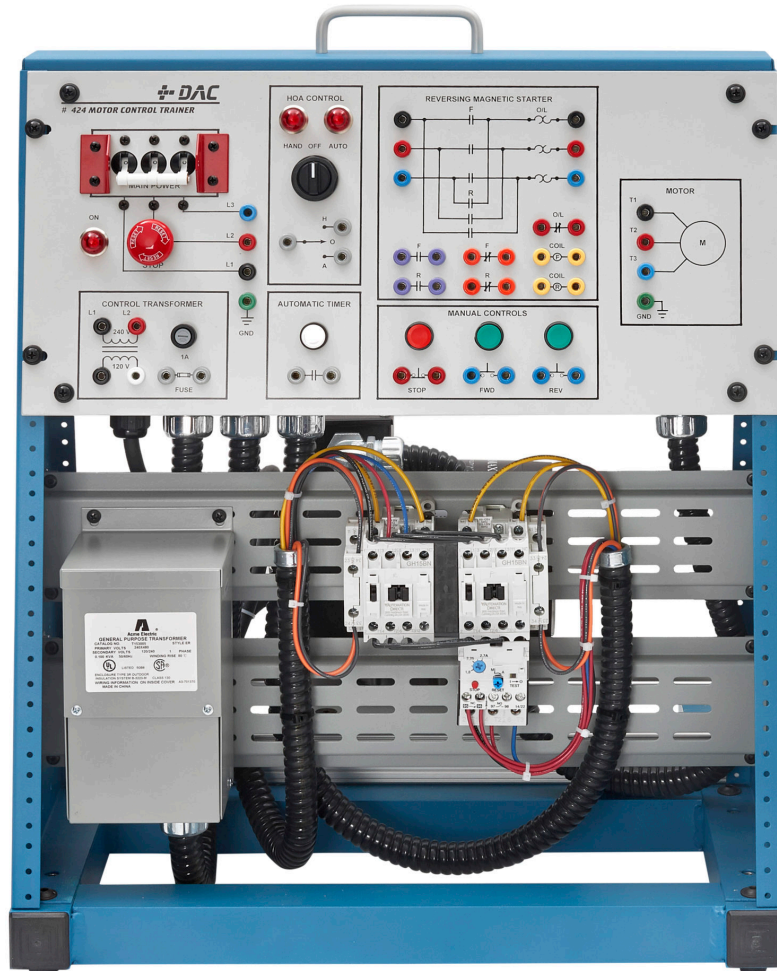


# 3-Phase Motor Control Training System with Magnetic Starter, Low Voltage Start



Model: 424-000

DAC Worldwide's 3-Phase Motor Control Training System with Magnetic Starter, Low Voltage Start (424-000) is a motor control-related device for training in the operational principles, wiring, fault troubleshooting and application of industrial three-phase, reversing magnetic starters. The device is self-contained, allowing for individual study by a single student or a small student group. While often used independently, the training aid can be integrated with other products relating to PLCs, pilot devices, and motor-driven mechanical systems.

## **DACW's 3-Phase Motor Control Training System Takes Learning to the Next Level**

A key training element within a 7-trainer series of related motor control-focused products, this device is often used

independently due to its concentration on the most common motor starter configurations seen in industry and its on-board selection of common piloting components.

The training aid includes a welded aluminum base assembly, steel support structure and enclosure, aluminum motor mounting rails and an applicable, industrial-duty, three-phase, squirrel-cage motor.

All wiring is accomplished through shielded banana-jack connections on the front panel face, rather than directly to individual components. Multiple safety systems are provided. Four instructor fault switches, creating common component faults, are provided. Supplemental components such as a motor loading device and a piloting switch module can be added to expand the system's capabilities.

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## **FEATURES & SPECIFICATIONS**

- Welded aluminum base assembly, using 1-1/2" square, 1/8" wall tubing
- Anti-slip, vibration-dampening, support feet
- Aluminum t-slotted mounting rails, allowing for attachment of tethered motor assembly and lateral connection to associated devices
- 16-Gauge, formed-steel support structure, allowing for attachment to base assembly or alternate mounting bench products
- 16-Gauge, formed-steel electrical enclosure
- Silk-screened 1/8" aluminum front panel face
- Powder-coated surfaces throughout
- On-board safety components, including: 1) Keyed instructor power switch (Rear of product); 2) Circuit breaker with provision for representative lock-out/tag-out; 3) Permanent, redundant internal grounding (not dependent on student wiring); 4) Pilot light and large emergency stop switch; 5) Internal electrical interlock, de-energizing power when opening electrical enclosure
- Industrial-duty, 56-frame three-phase motor
- Industrial reversing magnetic motor starter, with auxiliary contacts
- Control transformer
- Color-coded, banana-jack receptacles for all motor leads, supply connections and control components
- Four instructor fault switches (rear of device, behind access panel)
- Allows for attachment to optional control and mechanical devices directly and using optional mounting bench products

## **INCLUDES**

- Magnetic Motor Starter
- Circuit Breaker
- Keyed Instructor Power Switch

- Pilot Light
- E-Stop Switch
- Electrical Interlock
- Control Transformer
- 3-Phase Motor
- Four (4) Instructor Fault Switches
- #420-500 Use/Exercise Guide

## **PRODUCT DIMENSIONS**

- 19-in. L x 19-in. W x 25-in. H (480 x 480 x 670 mm)
- 50 lbs. (22.5 kg)

## **UTILITIES**

- 208-230/380/480V, 50/60hz, three-phase. Must specify voltage requirement upon ordering.

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