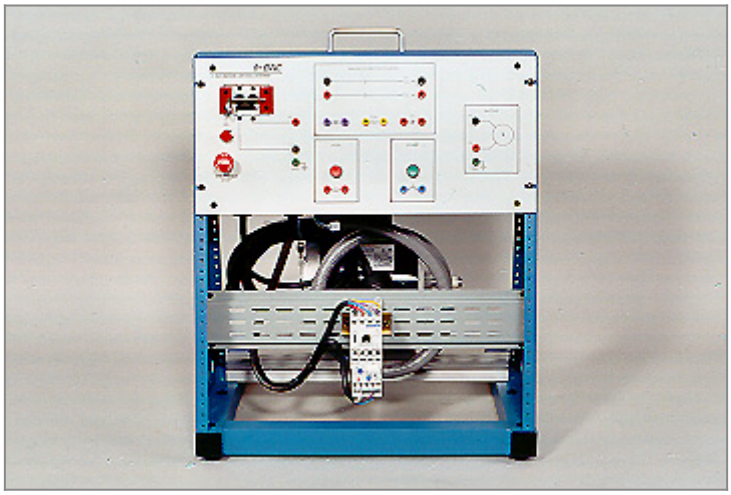
1-Phase Motor Control Training System with Magnetic Starter



Model: 421-000

DAC Worldwide’s 1-Phase Motor Control Training System with Magnetic Starter (421-000) is a motor control-related device for training in the operational principles, wiring, fault troubleshooting, and application of industrial single-phase, magnetic motor 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 related motor-driven mechanical systems.

Explore Magnetic Motor Starter Training Using Hands-On Industrial Components

A fundamental training system within a series of related motor control-focused products, this device is often used independently due to its common use in basic industrial equipment and its on-board selection of common piloting components.

The training aid includes a welded aluminum baseplate, steel support structure and enclosure, aluminum motor mounting rails, and an applicable industrial-duty single-phase, capacitor-start motor.

All wiring is accomplished through shielded banana-jack connections on the front panel face, rather than directly to individual components. Redundant 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 wiring opportunities and capabilities.

FEATURES & SPECIFICATIONS

- Welded aluminum base assembly, using 1-1/2" square, 1/8" wall tubing.
- Aluminum t-slotted mounting rails, allowing for attachment of tethered motor/baseplate assembly and 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:
- Keyed instructor power switch(Rear of product).
- Circuit breaker with provision for representative lock-out/tag-out.
- Permanent, redundant internal grounding (not dependent on student wiring).
- Pilot light and large emergency stop switch.
- Internal electrical interlock, de-energizing power when accessing electrical enclosure.
- Industrial-duty, 56-frame, 1/4 HP, 1140 RPM, single-phase motor.
- 3-Pole magnetic motor starter with n. o. auxiliary contact and overload relay.
- On-board 16 mm motor start and stop switches.
- Use of UL and CE certified electrical components throughout.
- 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 integration bench products.

INCLUDES

- Manual Motor Starter
- Circuit Breaker
- Keyed Instructor Power Switch
- Pilot Light and E-Stop Switch
- Electrical Interlock
- Motor
- Four (4) Instructor Fault Switches
- #420-500 Use/Exercise Guide

PRODUCT DIMENSIONS

- 19-in. L x 19-in. W x 25-in. H (483 x 483 x 635 mm)

- 50 lbs. (22.5 kg)

UTILITIES

- 115V/60Hz/1Ph

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