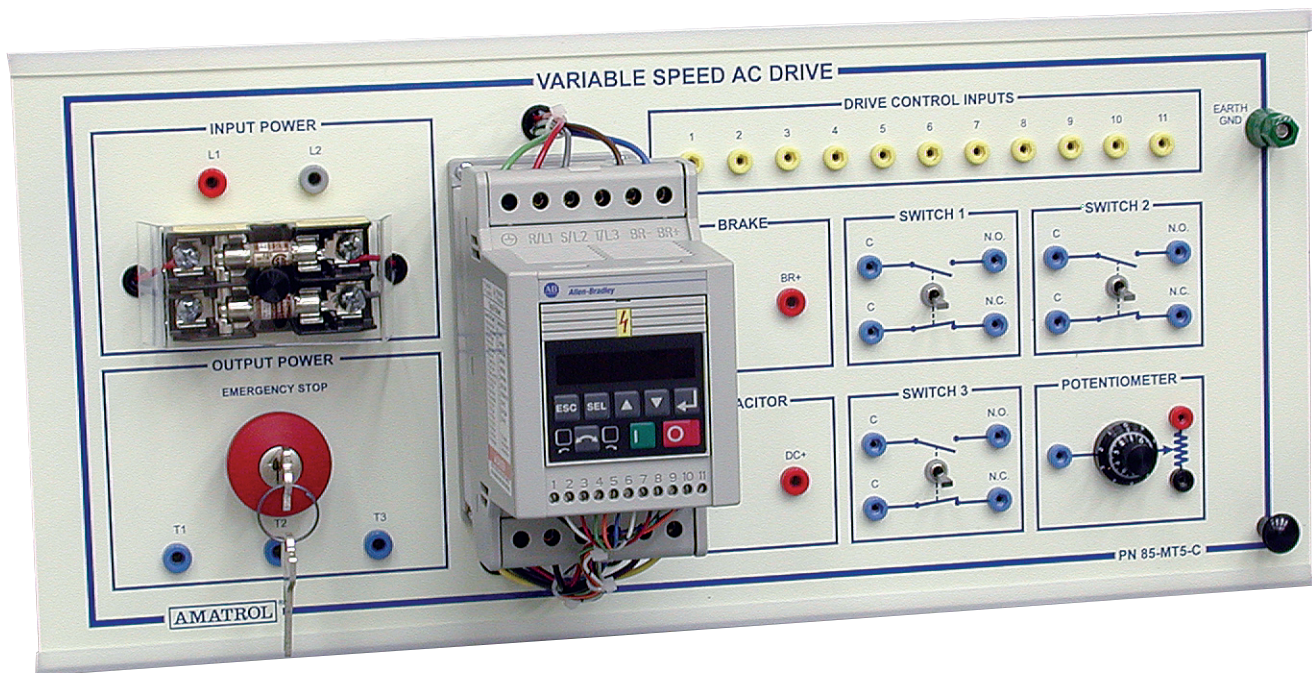


# VARIABLE FREQUENCY AC DRIVE SYSTEM

## 85-MT5-C



Amatrol's 85-MT5-C Variable Frequency AC Drive Learning System adds to the 85-MT5 Motor Control Learning System to teach variable frequency AC solid-state control of 3-phase electric motors. Students learn industry-relevant skills related to these new topics including operation, installation, performance analysis, troubleshooting, and design.

The model 85-MT5-C includes a variable frequency AC drive station panel with fuse block, variable frequency AC drive, emergency stop pushbutton with key-lock, multi-turn potentiometer, (3) selector switches, fault insertion module, student learning materials for both theory and lab, and teacher's guide. This system uses industrial quality components to help students become better prepared for what they will encounter on the job as well as to withstand frequent student use.

### TECHNICAL DATA

#### Variable Frequency AC Drive Station

- Slide-in steel panel
- Plug-in connections
- Control keypad
- DC injection braking
- PWM output with adjustable carrier frequency (2 to 8 kHz)
- Fuse block, 2 position, with fuses
- DPST pushbutton switches (3)
- SPDT toggle switches (3)
- 3-position key-lock safety switch
- Potentiometer with 10 turn indicating dial
- Fault Module with (5) faults
- Safety ground terminal and lead

17411 Student Learning Activity Packet  
17410 Teacher Assessment / Portfolio Guide

**CURRICULUM IS THE KEY TO LEARNING**

**Learning Topics:**

- 2-Wire Control
- 3-Wire Control
- Manual Control
- Open Loop Speed Control
- Dynamic Braking
- Programmable Acceleration
- Programmable Deceleration
- Programmed Diagnostics
- Motor Jogging
- PLC Interfacing
- Troubleshooting
- Operation
- Installation and Maintenance

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