

Portable AC Variable Frequency Drives Troubleshooting Learning System

990-DRV1F

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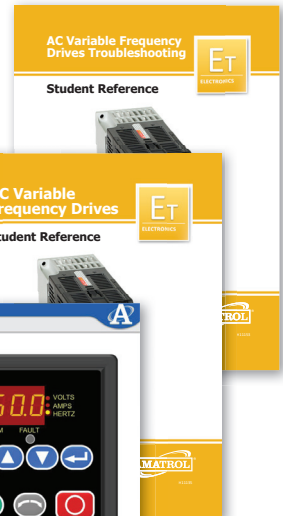
ELECTRONICS



990-DRV1F



FaultPro, Multimedia Curriculum, and Student Reference Guides



Learning Topics:

- Variable Frequency AC Drives
- Two- and Three-Wire Control
- Jogging Control
- Speed Control
- Torque Control
- Ramping
- Acceleration Methods
- Braking
- Fault Detection
- Troubleshooting

Amatrol's Portable AC Variable Frequency Drives Troubleshooting Learning System (990-DRV1F) teaches the fundamentals of configuring and operating an AC variable frequency drive. The system includes industry-standard components, such as an Allen-Bradley PowerFlex 525 variable frequency AC drive and a 3-phase AC motor, in a convenient, portable case that can be used virtually anywhere.

The system also features FaultPro, Amatrol's exclusive electronic fault insertion software. FaultPro allows users to learn motor drive troubleshooting skills, such as drive input, motor input, and drive relay troubleshooting. FaultPro allows users to troubleshoot realistic situations they will encounter on the job in industries like packaging, textiles, and paper where rapid motor acceleration and deceleration are required.



Technical Data

Complete technical specifications available upon request.

Portable Case
Allen-Bradley PowerFlex 525 AC Drive
3-Phase AC Motor
LED Motor Speed Display with Mounted
Tachometer
Potentiometer
Voltage Meter (LED type)
Pushbuttons (3)
Forward/Reverse Selector Switch
Indicator Lamps (2)
PLC/Manual Selector Switch
PLC Discrete & Analog I/O Interfaces
Emergency Stop Circuit
Digital Multimeter
Lockout/Tagout Kit
Lead Set
USB Fault Connector
FaultPro Software
Interactive Multimedia (M11135/M11153)
Instructor's Guides (C11135/C11153)
Installation Guides (D11135/D11153)
Student Reference Guides (H11135/H11153)
Additional Requirements:

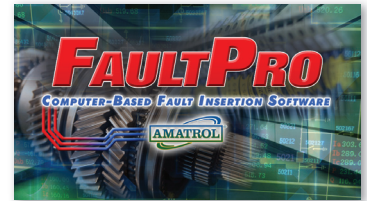
Computer (Visit www.amatrol.com/support/
computer-requirements for details.)

Utilities:

Electricity (120 VAC/60 Hz/1 phase)

Real-World Troubleshooting with FaultPro

The 990-DRV1F features FaultPro, Amatrol's exclusive electronic fault insertion system. FaultPro allows users to insert more than 20 faults into the system for realistic troubleshooting of situations they will encounter on the job. FaultPro's computer-based faults automatically track progress, enabling learners to gain troubleshooting skills in a self-paced environment that ensures that faults are inserted safely, protecting both learners and equipment.



Practice Hands-On Skills Wherever You Are

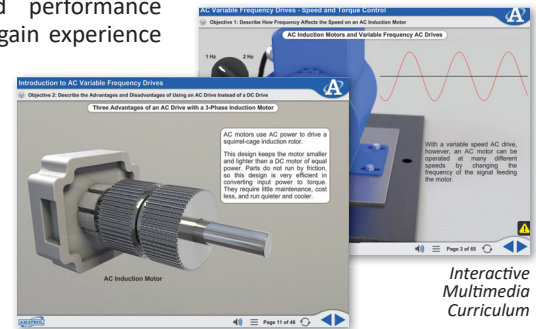
The Portable AC Variable Frequency Drive Troubleshooting Learning System allows learners to practice hands-on skills with industry-standard components, like an Allen-Bradley PowerFlex 525 variable frequency AC drive and a 3-phase AC motor. Learners will gain real-world experience that will prepare them for work opportunities. The system also includes: onboard analog and discrete input devices that enable learners to operate the drive in many different program applications; a digital tachometer to monitor output; a digital voltmeter to monitor analog input into the motor; and a lockout/tagout kit to learn vital safety skills when working with AC motors.



Convenient, Portable, Hands-On Skills Training

Engaging, Highly-Interactive Multimedia

Amatrol's curriculum features a highly-interactive, multimedia format that includes stunning 3D graphics and videos, voiceovers of all text, and interactive quizzes and exercises designed to appeal to learners with different learning styles. The 990-DRV1F curriculum teaches learners about the operation, installation, and performance analysis of AC motors. Learners will also gain experience with relevant hands-on skills, such as operating a variable frequency AC drive to provide low speed boost. Other major topics include jogging and torque control, ramping commands, DC injection braking, acceleration methods, and troubleshooting various system faults.



Interactive
Multimedia
Curriculum



Student Reference Guides

Sample copies of the AC Motor Drives & AC Motor Drive Troubleshooting Student Reference Guides are also included with the system for your evaluation. Sourced from the system's curriculum, the Student Reference Guides take the entire series' technical content contained in the learning objectives and combine them into perfectly-bound books. Student Reference Guides supplement this course by providing condensed, inexpensive reference tools that learners will find invaluable once they finish their training, making them the perfect course takeaways.



Certified ISO 9001:2015

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