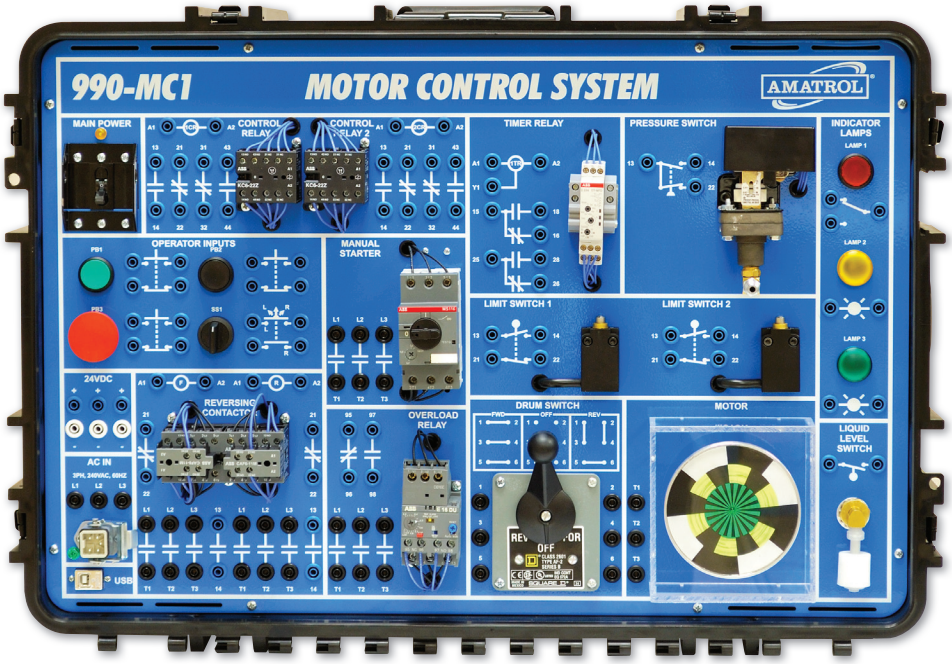
Portable Motor Control Learning System

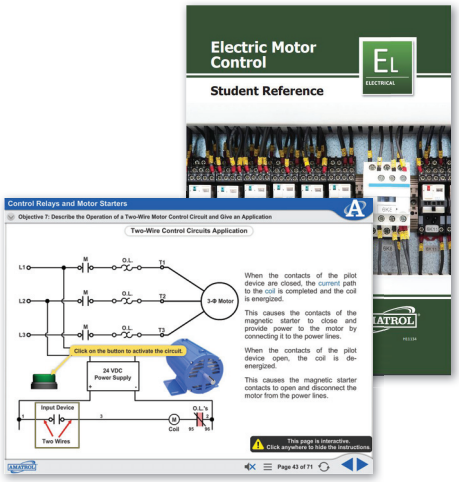
990-MC1

ELECTRICAL



990-MC1

Student Reference Guide



Interactive eLearning

Learning Topics:

- Manual Motor Control
- Overload Protection
- Control Ladder Logic
- Control Relays
- Motor Starters
- Reversing Motor Control
- Automatic Input Devices
- Component Operation
- Interpreting Schematics
- System Design
- Safety Interlocks
- Motor Control Applications
- Motor Safety

Amatrol's Portable Motor Control Learning System (990-MC1) features standard industry components like a 3-phase AC squirrel cage motor and uses 3-phase AC for power and 24 VDC for control all packed within a space-saving, portable product used for ladder logic programming training. Learners use these industrial components to study the operation, installation, and applications for electric relay control of AC motors. The Motor Control training system also includes lockout/tagout components to teach vital motor control safety steps when working with industrial motors. Electronic fault insertion can be added to this industrial training system to teach valuable troubleshooting skills that will prepare learners for real-world industrial maintenance competencies.

Nowhere else can you find this breadth of training in a portable platform! Motor Control is prevalent in all industries, from conveyor control to driving large utility pumps. The Motor Control training system builds both knowledge and skills across topics like manual motor control, control ladder logic, motor starters, and automatic input devices. This innovative approach to bringing motor control training to wherever you need is one example of why Amatrol is the world's leader in skills-based, interactive technical learning.

AMATROL®

Technical Data

Complete technical specifications available upon request.

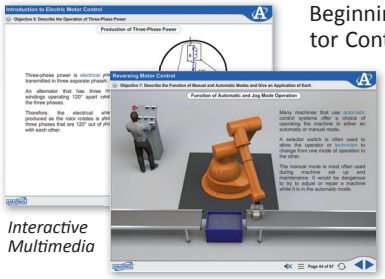
AC 3-Phase Motor
Start, Stop, and Reset Pushbuttons
Reversing Motor Contractors
Transformer
Forward/Reverse Selector Switch
Overload Switch
Limit Switches (2)
Pressure Switch
Float Switch
Drum Switch
Manual Motor Starter
3-Phase On/Off Switch
Power Cord with Plug-In Connector
Lockout/Tagout
Motor Guard
Motor Operation Wheel
Reversing Motor Starter
DC Power Supply
Control Relays (2)
Timer Relay
Indicators (3)
Multimeter
Lead Set
Student Curriculum – Interactive PC-Based Multimedia (N11134)
Virtual Trainer (N17401)
Instructor's Guide (C11134)
Installation Guide (D11134)
Student Reference Guide (H11134)
Additional Requirements:
Computer: See requirements: http://www.amatrol.com/support/computer-requirements
Utilities Required:
Electricity (208VAC / 60Hz / 3 Phase)

Industrial Components in a Space-Saving Package

Developing real-world skills takes practice on industry relevant components and systems. The Motor Control training system includes the most commonly utilized 3-phase AC squirrel cage motor used in industry as well as other industry-standard components, such as a drum switch, reversing motor contactors, a pressure switch, and a float switch, so that learners practice skills on mechanisms that they'll see in the field.



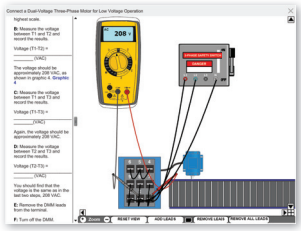
Superb Motor Control Multimedia Curriculum



Interactive Multimedia

Beginning at the foundation of motor control knowledge, the Motor Control training course's extensive multimedia curriculum builds on basics to advance to topics like three-wire start/stop control, reversing magnetic motor starter, and on-delay and off-delay timers. As the learner completes each new topic, they'll use this theoretical knowledge to complete hands-on skills. As an example, learners will study about the function, operation, and types of a control relays and then practice hands-on skills by actually connecting and operating a control relay in a circuit.

Virtual Trainer for Online Motor Control Skill-Building



The Motor Control Training System also features a virtual multimedia trainer! Amatrol's virtual trainers replicate hands-on equipment in such great detail that learners will feel like they are using the actual equipment. Learners will perform essentially the same tasks using virtual trainers that they would perform using equipment hardware. Transition from theory to hands-on is a seamless process.



Mobile, Durable - Use Anywhere!

The 990-MC1 is set within a durable ABS plastic case featuring wheels and a handle so that moving this world-class trainer from one destination to another is safe and easy. Another advantage of the 990-MC1 is the minimal set-up time. Once the case's cover is removed, the trainer sits upright on the training surface.

Optional Fault Insertion for Troubleshooting Skills Using FaultPro!

The 990-MC1 system can be enhanced to include electronic faults by adding the 99-FTSMC1. This modification will allow users to troubleshoot over 30 faults on components such as the main power circuit breaker, control relays, the pressure switch, and many more! The 990-MC1F (Portable Motor Control Troubleshooting Learning System) includes everything on the 990-MC1, but has electronic fault insertion system pre-installed.

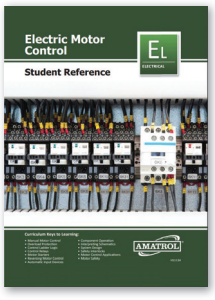


FaultPro

As the industry's premier program utilizing electronic faults, FaultPro allows instructors to instantly set and tailor faults to test a learner's weaknesses, turn them into strengths, and prepares learners to solve real-world technical problems once they're in the field.

Student Reference Guide

A sample copy of the Portable Electric Motor Control Learning System's Student Reference Guide is also included with the system for your evaluation. Sourced from the system's multimedia curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfect-bound book. Student Reference Guides supplement this course by providing a condensed, inexpensive reference tool that learners will find invaluable once they finish their training making it the perfect course takeaway.



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