



269 PLUS

TRCD-M269-C-S-1

MOTOR PROTECTION INTERACTIVE LEARNING CD

INTERACTIVE LEARNING CD ADVANTAGE

The 269 Plus Motor Protection Interactive Learning CD uses simulations, hands-on examples and practical applications to provide students with the same information and practical experience they would receive if they attended the in-class course. This CD allows Engineers, Electrical Personnel and Maintenance Staff to learn at their own pace and review the course material as often as they desire.

WHAT WILL I LEARN?

The 269 Plus Motor Protection Interactive Learning CD provides students with an understanding of all the theoretical concepts they will require in the areas of Induction Motors and Motor Protection. The CD will then step the students through the installation of a 269 Plus relay including wiring, how to perform settings calculations and how to configure your relay using the EnerVista 269 Setup Software.



AGENDA

1 - Overview

- Introduction
- How to use the Interactive Learning Interface

2 - Motor Theory

- Principles of magnetism and electromagnetism
- Basic construction of AC motors
- Operations of synchronous permanent magnet AC motors
- Operations of induction motors
- Operation of synchronous machines

3 - Thermal Modeling

- Common motor terminology
- Motor thermal limit curves
- Current Transformer selection
- Motor Thermal Modeling principles
- The 5 key Motor Thermal Modeling Elements

4 - Protection

- Short Circuit
- Single phase
- Ground Fault
- Mechanical Jam

5 - 269 Plus Setup

- Hardware tutorials
 - Installation and removal procedures
 - Front Panel features
 - Display
 - LEDs
 - Keypad/Port
- Wiring Inputs
 - Digital Inputs
 - Control Power
 - AC Phase current
 - AC Ground current
- Wiring Outputs
 - Failsafe
 - Trip/Close
 - Auxiliary Alarm
 - Service Alarm
- Software
 - EnerVista 269 Plus Setup Software
 - System Setup
 - Digital I/O
 - Thermal Model
 - Current Elements
 - Motor Starting
 - RTD Temperature
 - Voltage Elements
 - Actual Values
 - Undercurrent
 - Under and Over Voltage
 - Settings file management