



8 Series Mini Paper

The image shows a 3E Multi-Step Energy Protection System unit. The screen displays a menu with the following items:

- Name: MTR 1
- Status: 70.7% TCU: 40% Warning
- Settings: 60.0V/1 F. 40.000Hz
- About: 125.0 A, 100V, 13.0 kW
- 125.0 A, 100V, 13.0 kW
- 125.3 A, 100V, 13.0 kW
- 0.000 A, 0.000 V, 0.00 V
- 0.170 MW, 100V, 125.73 A
- 0.0120 MW, 100V, 13.0 kW
- 0.000 MW, 100V, 7%

The bottom of the screen shows navigation buttons: 'Menu', 'Back', 'Enter', 'Settings', 'About', and 'Help'.

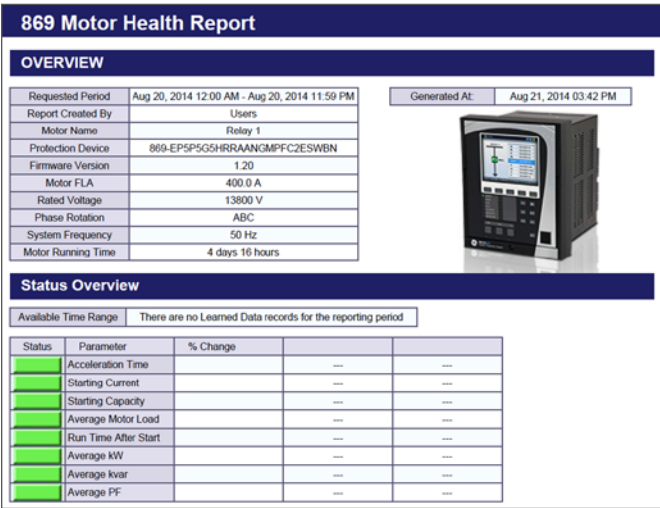
Health Report

The motor health report quickly provides a motor operation summary with information in the following seven categories.

- **Device Overview:** gives general information about the motor
- **Status Overview:** summarizes the historical learned data and gives an evaluation of the status of the motor
- **Trip Summary:** presents a summary of the events that caused motor trip
- **Operating History:** counts events associated with
e n e o o r o e r a n o n o n
- **Starting Learned Data:** collects and displays the start learned data
- **Start Records:** presents the 60-second long detailed start data
- **Stopping/Tripping:** gives details on the events that are
e e a r e e o o e o n a n r n o e
motor

The purpose of the health report is to:

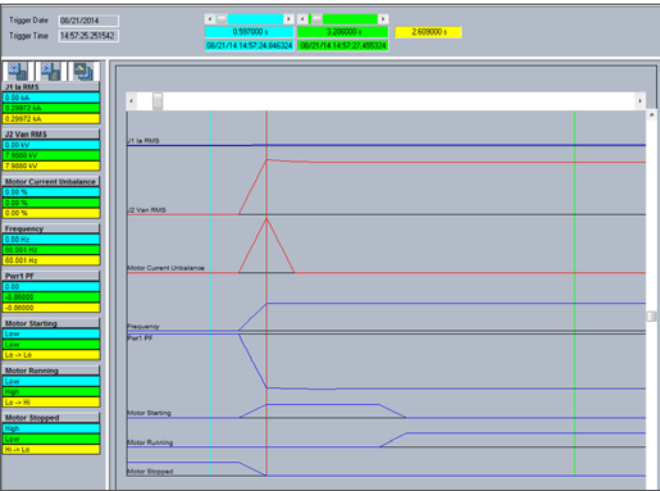
- Provide visual representation and trend values of motor historical data
- Present a quick snapshot of the motor operating and diagnostic information
- Help users quickly identify process issues and maintenance requirements



Start Records

A total of six start records are used to give a comprehensive view of motor starting, each of them providing 60-second data throughout the full starting cycle, where:

- 1-second pre-trigger data and 59-second post-trigger data are recorded;
- The sampling rate is one sample every 200ms
- Stored quantities include RMS values of currents and voltages, current unbalance, powers, power factor, thermal capacity used, frequency and motor status.



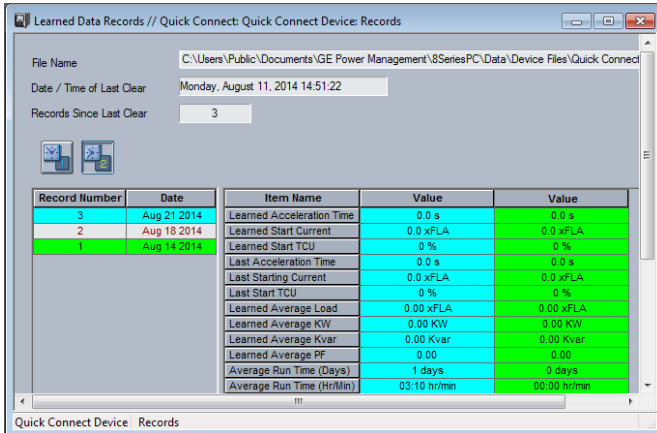
The users can examine the 60-second start data to:

- Understand the starting process
- Investigate the cause of an unsuccessful start
- n a e e e o o r e r a n e a e a r n
of a large motor
- Coordinate the starting sequence of multiple large motors

Learned Data

Learned Data recorder stores the following quantities upon a successful motor start.

- Last learned acceleration time, starting current, starting capacity used (TCU)
- Average load, power, power factor and running hours of the last running state
- Maximum temperature of each RTD



Up to 250 learned data records can be used to evaluate the changes/trends of motor starting and operating conditions over time.

Data Logger

Comprehensive data logger provides:

- Recording of 16 analog values selected from any analog value
- Seven selectable capture rates: 1 cyc, 1 sec, 30 sec, 1 min, 15 min, 30 min, 1 hr
- Data storage capacity ranging from 273 seconds to 2730 days, depending on the number of channels and rate.



period monitoring, analyze the historic data over several hours or even days in detail and take corrective actions as required.



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