

Comprehensive Protection

The 825-P Modular Protection System offers in-depth motor protection coverage by monitoring the critical elements of motor current, line voltage and temperature. High resolution settings allow the installer to configure a precise envelope of protection to achieve maximum motor utilization while avoiding damage and downtime.

ANSII No.	Function	ANSII No.	Function
Current Elements		Temperature Elements	
49/51	Thermal Overload	49	PTC Thermistor
46	Current Imbalance / Phase Loss	49	Stator STD
50G/50N	Ground Fault	38	Bearing RTD
37	Undercurrent (Load Loss)	–	Ambient and Other RTD
48	Overcurrent (Load Jam)	Power Elements	
50P	Short Circuit	37	Underpower
47	Phase Reversal	55	Power Factor
81	Frequency	–	Reactive Power
Voltage Elements		Motor Starting Elements	
27	Undervoltage	66	Starts / Hour
59	Overvoltage	–	Start Time Monitoring
47	Phase Reversal	14	Speed Switch Monitoring
81	Frequency	19	Reduced Voltage Starting

Note: Voltage and Power elements are only available with the installation of the Voltage Input option card.

Full Function Metering

The 825-P Modular Protection System offers in-depth motor protection coverage by monitoring the critical elements of motor current, line voltage and temperature. High resolution settings allow the installer to configure a precise envelope of protection to achieve maximum motor utilization while avoiding damage and downtime.

Current Elements

- Phase Currents
- Average Current
- % Motor Load
- Ground Fault Current

Voltage Elements

- Line-Line Voltages
- Avg. Line-Line Voltage
- Line-Neutral Voltages
- Voltage Imbalance
- System Frequency

Power Elements

- Real Power (kW)
- Reactive Power (kVAR)
- Power Factor
- Phase Angle

Thermal Elements

- % Thermal Capacity Utilization
- RTD Values

Note: Voltage and Power elements are only available with the installation of the Voltage Input option card.

Statistical Values

The 825-P Modular Protection System provides the following valuable statistical values of motor operation:

- Elapsed time of operation
- Stopped time
- Percent of time running
- Number of starts
- Number of emergency starts
- Date and time of last trip reset

Historical Data

The 825-P Modular Protection System saves records for the five most recent trip events. Each trip event is summarized with record of the following prior to trip data capture:

- Event day and time recording
- Trip and warning identification
- Phase and ground current amplitude and angle values
- Voltage amplitude and angle values