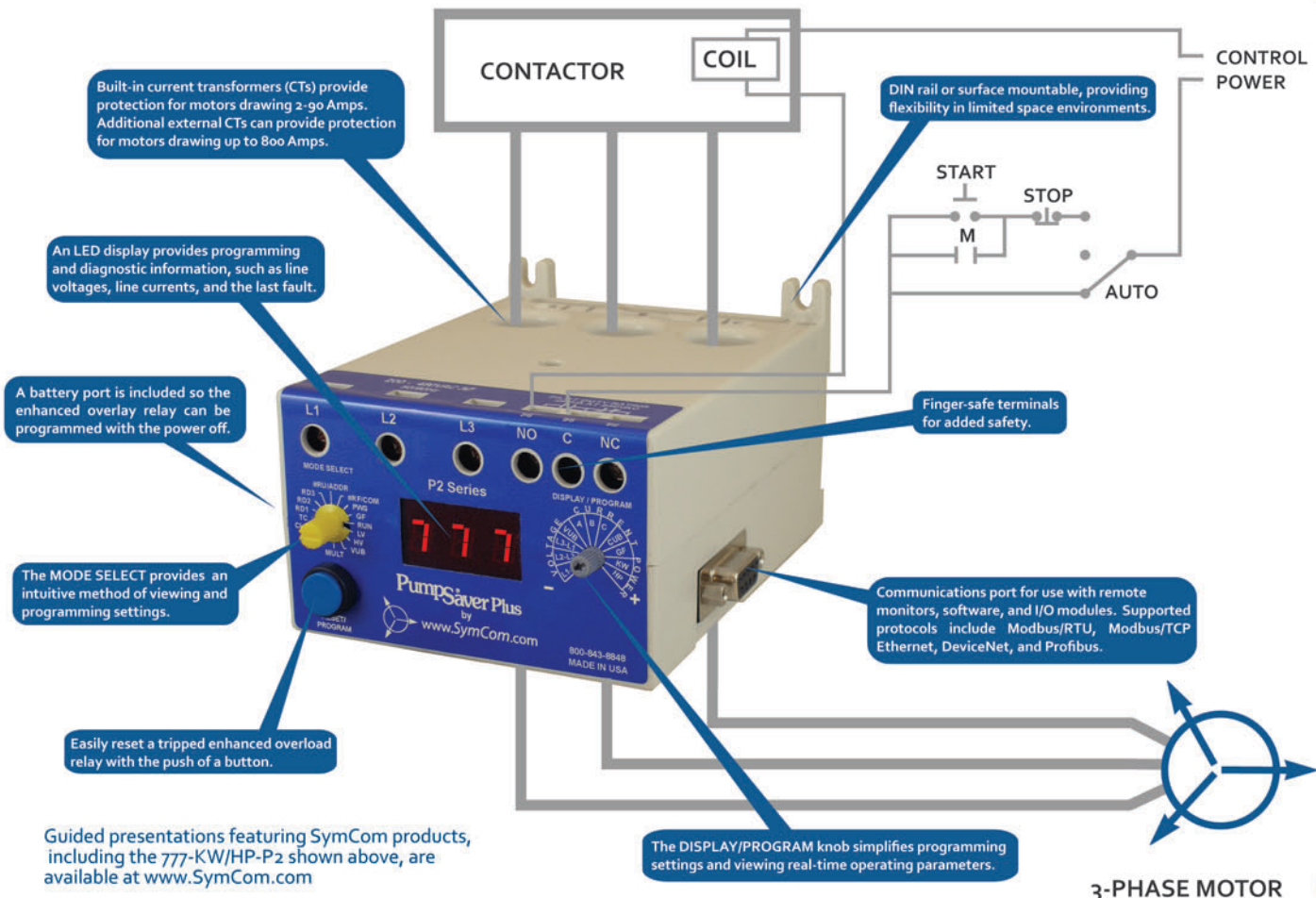


Enhanced Power Monitors

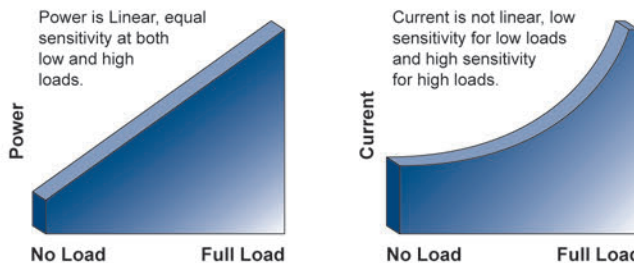
SymCom, the industry leader in enhanced power monitors, has been in the business of motor protection for over 35 years! Why is this so? Simply because we continue to offer our customers cost effective solutions - products that provide the broadest range of motor protection, most convenient user interface and programming, and widest variety of application specific models available in the industry. Our electronic control and protection products shield your equipment investment by reducing downtime, protecting from unexpected voltage and load problems, and reporting when a problem occurs – all of which save time and money.

Our "Enhanced Power Monitors" monitor line-side voltages to prevent starting equipment while fault conditions exist! Unlike standard thermal overload relays, which only protect against load-side faults, SymCom's 777 family of enhanced power monitors also act as "smart sensors" for incoming power lines. They protect against many voltage problems, including high voltage, low voltage, voltage unbalance, phase reversal and single phasing.



In addition, SymCom's 777s offer the same load fault protection features as a standard thermal overload – and much more. The load-side faults that the 777s protect against include low power, high power, current unbalance, single phasing, rapid cycling, contactor failure, and ground fault.

What are the advantages of monitoring power (Kilowatts or Horsepower) instead of current (Amps)? Power is linear with load, whereas current is logarithmic and does not change significantly until the pump or motor exceeds approximately 50% capacity. Monitoring power provides faster and more precise underload control regardless of whether the pump or motor is lightly or fully loaded.



For more information about the features, benefits and specifications of SymCom enhanced power monitors, please view our catalog or visit our website at www.SymCom.com.



Please see our website for a complete product listing as we often add new models.

SymCom offers several enhanced power monitor models with features for specialized applications. The following models are available for 777-KW/HP-P2 (three-phase) series power monitors and noted 77C-KW/HP (single-phase) series power monitors:

- **-KW/HP-P2**

The 777-KW/HP-P2 PumpSaver® provides protection for motors from 2-800 full load amps at voltages from 200-480VAC (external CTs required above 90A). All -P2 versions include network programmable features such as pre-trip alarms, and high and low power trip setpoints. The -P2 is backwards compatible with our legacy products, as it supports both 8 bit and 16 bit Modbus memory maps. These models also provide a low-voltage programming feature by way of a 9V battery. The 777-KW/HP-P2 power monitors are typically used to detect dry running of submersible pumps, broken shafts, loose couplings, etc.

- **-LR-KW/HP**

The 777-LR-KW/HP-P2 and 77C-LR-KW/HP are SymCom enhanced power monitors designed for use with 1-9 full load amp motors/pumps to ease installation. The 777-LR-KW/HP-P2 can also be used with external CTs for 10-800 full load amps.

- **-MLR-KW/HP-P2**

The 777-MLR-KW/HP-P2 is used in applications that have a 3-15 full load amp range.

- **-HVR-KW/HP-P2**

The 777-HVR-KW/HP-P2 includes a High Voltage Relay and is designed for 340-480VAC applications (typically pumping applications) where a control power transformer is not used on a 480V system to save the cost and extra associated wiring.

- **-575-KW/HP-P2**

The 777-575-KW/HP-P2 has a nominal 480-600VAC range. They are commonly used in Canada and the Northeast US where 575V utility power services are common.

- **-Accupower**

The 777-Accupower calculates motor shaft output power (load power), which can be transmitted via a 4-20 milliamp analog output to an external motor/pump controller where precise load feedback is critical, such as with mag drive pumps.

Applications: SymCom enhanced power monitors will protect nearly any single-phase or three-phase motor or pump - in almost any application. Although the list is practically endless, some "typical" applications include:

Pump protection:

- Lift Stations
- Booster Stations
- Water Wells
- Storm Water
- Chemical Injections Systems
- Oilfield Pumping
- Coal Bed Methane
- Irrigation Systems

Industrial motor protection:

- Paper Mills
- Petro-chemical Plants
- Food Processing Plants
- Aerators
- Rock Quarries
- Cement Plants
- Industrial Fans
- HVAC Compressors
- Augers and Conveyors
- Grain Elevators

And many more!

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