

POWER MONITOR

Model M20

Affordable protection for any FTI pump including UC, DB and SP Series mag drives



Features:

- Provides accurate shaft power measurement
- Instantaneously shuts down pump when a change in shaft power is sensed
- Easy to install
- Autoset makes set up quick and easy
- Monitors supply power from line voltage
- Electronically locks parameters
- Digital readout of HP, % HP, kW, % kW, volts and amps
- Programmable relay configurations
- Four levels of protection (pre-alarm minimum & maximum power; alarm minimum & maximum power)
- Just three models cover all motor voltages up to 690 VAC
- Operates at 50 or 60 Hz
- Programmable analog signal proportionate to the motor's shaft power
- UL, cUL and CE approved

How it works

The M20 utilizes a unique algorithm to measure normal work load and then calculates and sets a shut-down sequence when an increase or decrease in shaft power is detected outside the determined parameters. Pump shut-down takes place before dry-running damage can occur.

Benefits

- More accurate than amp monitors and motor input power monitors.
- Pump curves express load data in shaft power, not motor input power.
- The significant losses of the motor are removed to improve accuracy and reliability.
- Protection parameters are set against the actual working load.
- The power displayed by the meter is the actual power being used by the pump.

Uses:

- Dry running – Protects pumps with PTFE, silicon carbide or ceramic bushings if no liquid is present.
- Dead heading – Prevents operating the pump with a closed discharge valve or clogged filter.
- Excess power – Prevents failures due to foreign objects being sucked into the pump, changes in system piping, or changes in fluid characteristics such as viscosity or specific gravity.
- SP Series – Delay feature ensures pump is primed and operating.

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SPECIFICATIONS

The complete M20 requires a transducer.

Selecting an M20 power monitor:

- Select a part number based on the operating voltage and phase for the motor
- Monitors work at either 50 or 60 Hz.

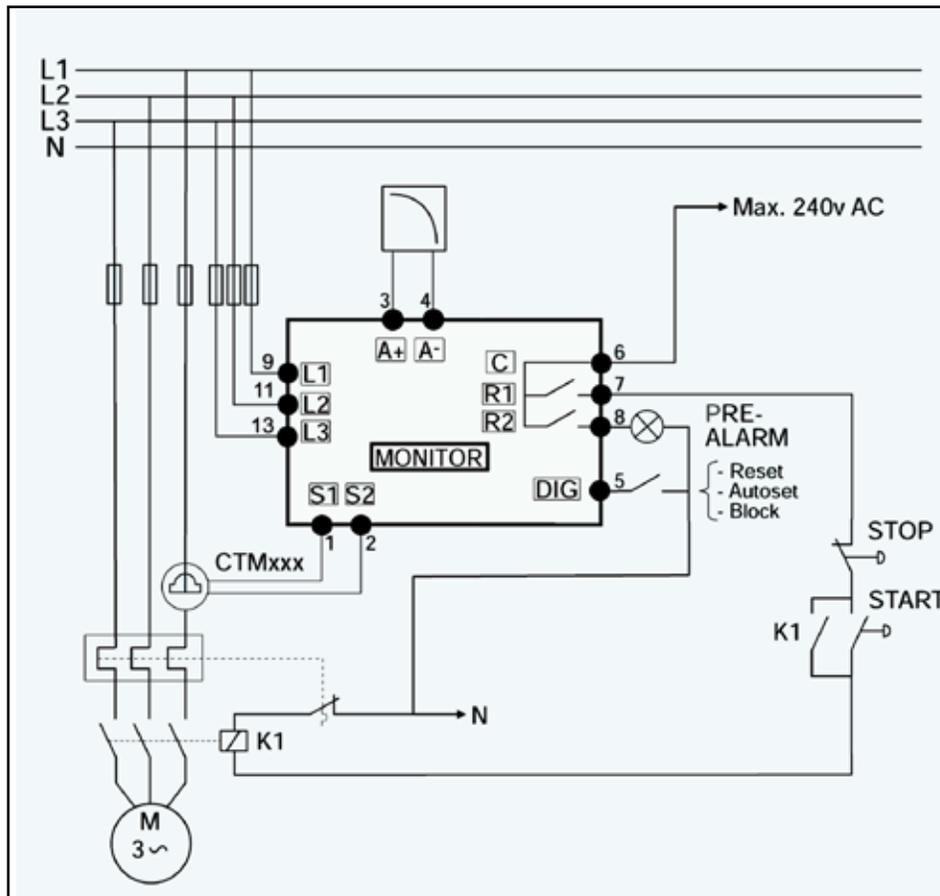
| Voltage | Part Number |
|---------------------------|-------------|
| 100-240 volt, 1 & 3 phase | J103768-1 |
| 380-500 volt, 3 phase | J103767-1 |
| 525-690 volt, 3 phase | 106431 |

Selecting a transducer:

- Determine the full load amp draw of the motor at the installed voltage.
- Price for M20 includes transducer

| Full Load Amps | Part Number |
|----------------|-------------|
| 0.40 to 10.0 | J103769 |
| 10.1 to 25.0 | J103770 |
| 25.1 to 50 | J103771 |

M20 WIRING DIAGRAM



Sample Installation



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