

ProcessDefender™

Power Monitors

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

No costly downtime!

No run-dry damage!

Reliable operation!



How it works

ProcessDefender™ uses the motor as a sensor! By accurately measuring motor power, ProcessDefender ensures that abnormal conditions such as pump run dry or a closed suction valve are reliably detected, and the pump is shut down before damage can occur.

Benefits

- More accurate and reliable than current monitoring or flow/pressure monitoring
- Electrical device (means minimal wear and tear)
- Non-intrusive installation
- Overs overload and underload protection
- Effective protection from zero- to full-load
- Protection parameters are set against the actual working load

Features

- Uses the motor as a sensor to prevent damage and downtime
- Four levels of protection (pre-alarm minimum and maximum; main-alarm minimum and maximum)
- Display motor load as either HP, kW, or % of Motor Power
- Large, backlit LCD display
- Eliminates the dangers of arc flash by mounting in the cabinet door
- Display motor Amps or Volts
- Overload and Underload protection
- A single model covers all voltages 100 - 480VAC
- Operates at 50 or 60 Hz
- Real Time Clock
- Alarm logging with time/date stamping
- Certified to UL, cUL, and CE

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.



Specifications

There is one ProcessDefender model for all voltages (100-480VAC). However, the correct Current Transducer must be selected based on motor Full Load Amps (FLA).

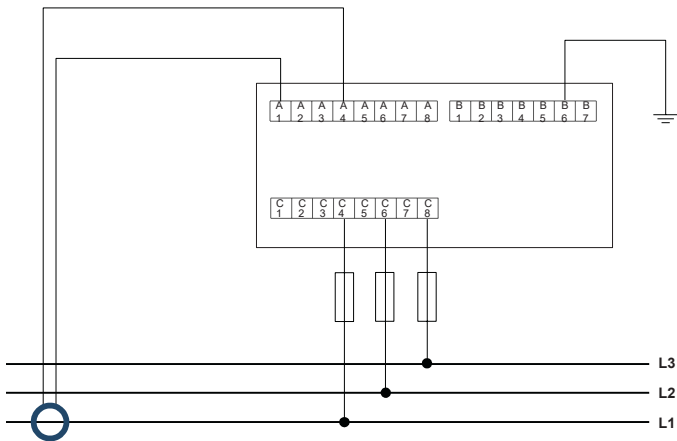
Part Number	Description
111851	ProcessDefender power monitor (HMI and sensor) for 100-480VAC
111828	Current Transducer for 0.1 - 10 FLA
111829	Current Transducer for 10 - 20 FLA
111830	Current Transducer for 20 - 50 FLA
111831	Current Transducer for 50 - 100 FLA

Note 1: refer to the motor nameplate for amperage data.

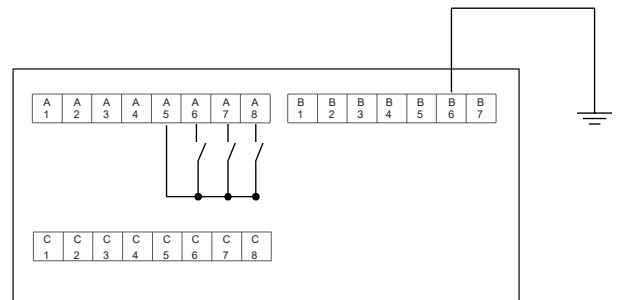
Note 2: It is critical that the Current Transducer is sized and installed correctly. Please refer to the ProcessDefender Instruction Manual for full details.

Wiring Diagrams

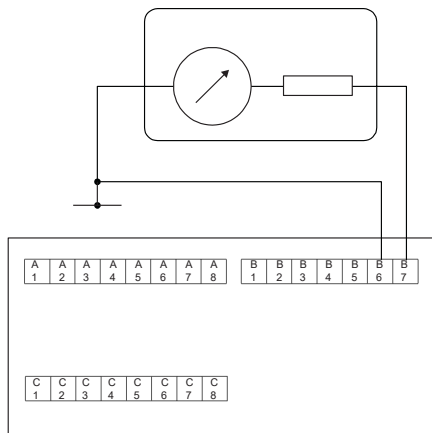
Power Wiring



Relays

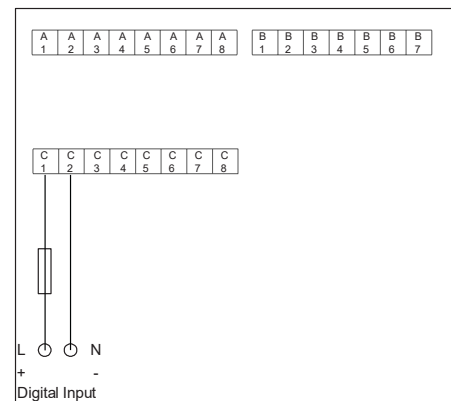


4-20mA Output



Note: Modbus, USB and Analog 0V lines are internally connected.

Digital Input



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