

Friesen Electric

NEWSLETTER

Focusing On Automation

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Explosion Proof Starters

Applying state-of-the-art electronic control solutions to industry specific applications.

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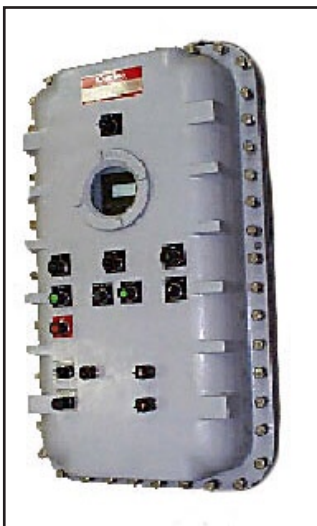
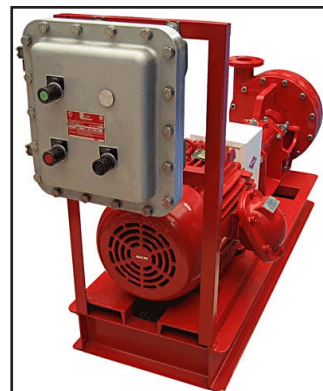
Automation

- Production Monitor
 - Set works
- Power Factor Monitoring & Correction
 - Wireless Remote Control
- Big Digit Production Displays
- Peak Power Monitoring & Control
- Energy Saving Vacuum Pump Controls
- Plate Cooler Energy Saver Controls
- HMI Touch Screen Interfaces
- Networked Motor Control
- Web Equipment Control

Explosion Proof Starters

Safe and Reliable Starting in Hazardous Applications

Type 7 enclosures are designed to provide protection against an internal explosion when operated in a hazardous gas environment. Type 9 enclosures protect from internal explosion in a hazardous dust environment. Both types must also prevent enclosed heat generating mechanisms from causing external surfaces to reach temperatures capable of igniting explosive gas-air mixtures in the surrounding atmosphere. These explosion-proof starters meet all requirements of both classifications.



Explosion-proof combination starters can include either a Motor Circuit Protector or non-fusible disconnect. The Motor Circuit Protector (MCP) is an adjustable “magnetic trip only” circuit breaker for precise protection of motor circuits. An MCP prevents single phasing by simultaneously opening all three phases when a fault occurs in any one phase. An MCP can also be quickly reset after the fault has been cleared. Interrupting capacity can be increased to 100,000 amperes by adding a current limiter (contact factory for this option). A molded case switch (MCS) is used in applications requiring a non-fused disconnect.

All explosion-proof starters are equipped with CAT7 and CAT6 line of motor starters. These starters are compact and offer intermediate sizes to better match specific motor requirements. This equates to generous wiring space and less wasted horsepower capacity.

Explosion Proof starters are equipped with an overload relay. Unlike traditional overload relays that indirectly sense motor current through heater elements, this solid state overload relay measures motor current directly through integrated current transformers and on board electronics. The electronics provide numerous advantages over electromechanical relays.