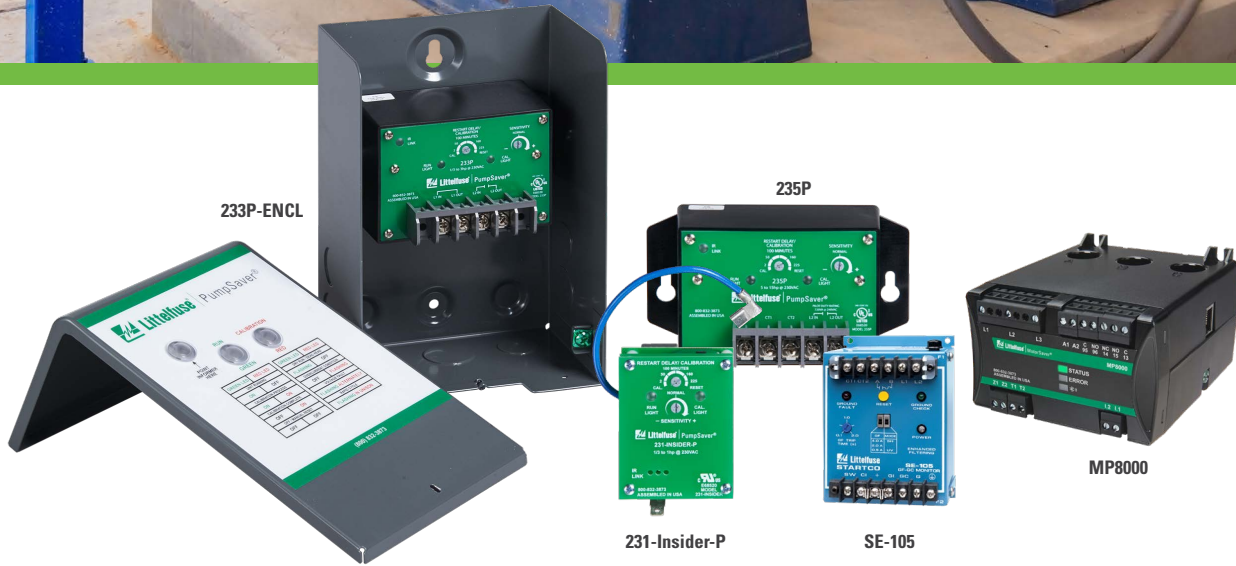


LITTELFUSE SINGLE & THREE-PHASE PUMP PROTECTION



Why Choose Littelfuse to Protect Your Pumps

Littelfuse is an industry leader in UL fuses, time delay relays, single and multifunction relays, liquid level controllers, and ground-fault monitors. With more than 200,000 pump protection relays installed globally, Littelfuse is proud to provide high-quality products, deep technical expertise, and superior customer support.

Contact us to speak to an application expert and find the best solution for your pump protection needs.

Key Markets

- Agriculture
- Residential
- Commercial
- Construction
- Industrial
- Mining
- Municipal
- Oil & Gas
- Solar

FEATURES	BENEFITS
Current-Based Protection	Protects pumps from dry-well, dead-head, jammed impeller, and overload conditions.
Voltage-Based Protection	Protects pumps from unhealthy power supply conditions such as over and under voltage, rapid cycling, and loss of phase.
Ground-Fault Ground-Check Protection	Ground-Fault protection detects phase-to-ground faults and Ground-Check protection ensures the pump body remains properly grounded to eliminate hazardous voltages during a ground fault.
Communications	Allows remote access to metering and time-and-date stamped fault records to assist in troubleshooting. Bluetooth communications (MP8000) provides a simple method for local communications with common handheld device.

Littelfuse Product	System Voltage	HP Range	Single Phase	Three Phase	Current Measurement Method	Current-Based Protection	Voltage-Based Protection	Ground Fault Protection	Ground Check Protection	Communications
111-Insider-P	115 V ac	1/3 –1/2 HP	•		In Series	•	•			Infrared
111P	115 V ac	1/3 –1 HP	•		In Series	•	•			Infrared
231-Insider-P	230 V ac	1/3 –1 HP	•		In Series	•	•			Infrared
233P/233P-ENCL	230 V ac	1/3 –3 HP	•		In Series	•	•			Infrared
235P/235P-ENCL	230 V ac	5 –15 HP	•		External CT	•	•			Infrared
MP8000	90–690 V ac	1/3 –100+ HP	•	•	Integrated CT	•	•	•		Bluetooth & Remote
SE-105	< 5 kV ac	1/3 –100+ HP	•	•	External CT			•	•	No

Accessories



Informer

A hand-held diagnostic tool that uses an infrared receiver to access information which can be helpful for troubleshooting the system. Includes the Informer IR Kit-12.



Informer IR Kit-12

12" infrared adapter cable that attaches to the face of the unit to provide remote diagnostics without opening the panel. Included with the Informer.

Disclaimer Notice—Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at www.littelfuse.com/product-disclaimer.