

234-P

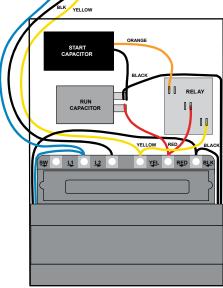
Single-Phase Pump Monitor



Wiring Diagram

234-P CONNECTIONS IN GRUNDFOS* CONTROL BOX





For installation instructions see the Fresh Water Pumping Catalog.

Description

The PumpSaver® Plus Model 234-P protects single-phase pumps from dry-well, dead-head, rapid-cycle, jammed-impeller, and over/undervoltage conditions. Typical applications include residential waterwells, commercial waterwells, irrigation wells, and golf course and other sprinkler systems.

The Model 234-P is designed to be mounted inside a Grundfos* control box to protect $\frac{1}{3}$ -3 hp, 2- or 3-wire, 230 V pumps.

An infrared LED communicates directly with a hand-held diagnostic tool called the Informer (sold separately).

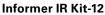
Features & Benefits

| FEATURES | BENEFITS |
|---|--|
| Proprietary microcontroller based circuitry | Constant monitoring of voltage and current protects pumps from dry-well, dead-head, jammed impeller, rapid cycling, and voltage faults |
| Onboard sensitivity adjustment | Allows user to adjust the current sensitivity for the dry-well / dead-head trip point from 70 % - 90 % of the full load. |
| Adjustable restart delay | Allows user to select well recovery time delay after a dry-well condition occurs, or to select manual reset |
| Built in IR communications link | Used with the Informer, allows user to see stored faults, run time, and also troubleshoot the pump while it's running |
| LED indication | Provides status and diagnostics for troubleshooting |

Accessories



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



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

234-P



Specifications

Functional Specifications Adjustments/Settings . Overcurrent Underload (dry-well) **Overvoltage** Undervoltage Number of restarts allowed in a 60-second period (rapid-cycling) **Trip Delay Times** Overcurrent Dry-well **Restart Delay Times** Over/undervoltage All other faults (dry-well recovery timer)

125 % of calibration point Adjustable (70 - 90 % of calibrated run power) 265 V ac 190 V ac

5 seconds 4 seconds

4

2 seconds

Manual, 2-225 minutes

Input Characteristics Supply Voltage

Load Range Frequency **Output Characteristics**

Dimensions

Mounting Methods

Standards Passed

Weight

General Characteristics

230 V ac 1⁄3 – 3 hp 50/60 Hz (Note: 50 Hz will increase all delay timers by 20 %)

Output Contact Rating (SPST) 3 hp @ 240 V ac (17 A max.)

Operating Temperature -40 °C to 70 °C (-40 °F to 158 °F) Maximum Input Power 5 W (max.) Fitted to Grundfos* Control Box 14 oz. Grundfos* Control Box

Electrostatic Discharge (ESD) IEC 61000-4-2, Level 2, 4 kV contact, 6 kV air

*Grundfos is a trademark of its respective owner.

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