234P

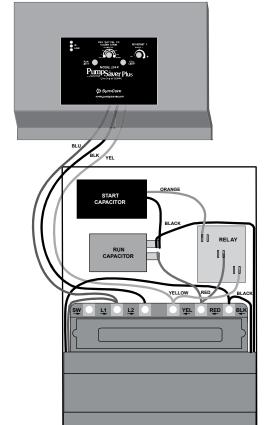
Single-Phase Pump Monitor





Wiring Diagram

234P CONNECTIONS IN GRUNDFOS® CONTROL BOX



For installation instructions see the Fresh Water Pumping Catalog.

Description

The PumpSaver® Plus Model 234P 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 234P is designed to be mounted inside a Grundfos® control box to protect 1/3-3hp, 2- or 3-wire, 230V 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 calibration 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



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

Protection RelaysMotor and Pump Protection



234P

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)

265VAC

190VAC

4

5 seconds 4 seconds

2 seconds

Manual, 2-225 Minutes

Input Characteristics

Supply Voltage230VACLoad Range1/3 - 3 hpFrequency50/60Hz

(Note: 50Hz will increase all delay timers by 20%)

Output Characteristics

Output Contact Rating (SPST) 3 hp@240VAC (17 amps max.)

General Characteristics

Operating Temperature -40° to 70° C (-40° to 158° F)

Maximum Input Power 5W (max.)

Dimensions Fitted to Grundfos® Control Box

Weight 14 oz.

Mounting Methods Grundfos® Control Box

Standards Passed

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