Model 231-Insider-P



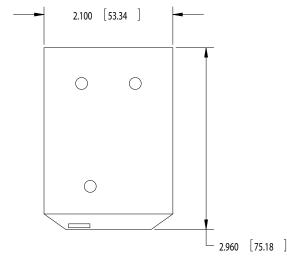
Picture may not be representative of actual product.

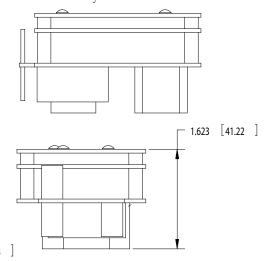
SymCom's Model 231-Insider-P single-phase PumpSaver®Plus fits inside ¼3, ½, ¾4, and 1hp 230V control boxes and is designed to protect single-phase pumps from dry-well, dead-head, jammed impeller, rapid-cycle, overvoltage, and undervoltage conditions.

A calibration adjustment allows the Insider-P to be calibrated to specific pumping applications, thereby reducing the possibility of false or nuisance tripping. A unique microcontroller-based voltage and current-sensing algorithm constantly monitors the incoming power for fluctuations. When an abnormality, such as a loss of load is detected, the PumpSaver®Plus deactivates its output relay directly disconnecting the pump motor. The PumpSaver®Plus then begins its user-selectable restart delay (dry-well recovery) timer. When the timer counts down to zero or power is removed and reapplied, the PumpSaver®Plus reactivates its output relay, allowing the pump to turn back on.

The 231-Insider-P communicates with a hand-held diagnostics tool called the Informer (sold separately). The Informer displays 15 parameters including calibration points, trip points, running points, and last faults. An IR Kit-12 (12" fiber optic kit) is included with each 231-Insider-P, allowing the Informer to access these parameters even when the 231-Insider-P is enclosed in a control box. This is valuable for troubleshooting the pump while it is running.

NOTE: The PumpSaver®Plus models have a sensitivity adjustment for the dry-well trip point. After calibration is done, you can adjust the sensitivity for the dry-well/dead-head trip point from 70-90% of the full load. This makes the unit even more adaptable to varying pumping applications. If you have a very low producing well, you increase the sensitivity closer to the 90% mark, or if you have a very heavy producing well, you would decrease the sensitivity around the 70% mark.





Functional Specifications	
Adjustments/Settings	
Overcurrent	125% of calibration point
Underload (dry-well)	Adjustable (70 to 90% of calibrated run power)
Overvoltage	265VAC
Undervoltage	190VAC
Number of restarts allowed in a 60-sec.	4
period (rapid-cycling)	
Trip Delay Times	
Overcurrent	5 seconds
Dry-well	4 seconds
Restart Delay Times	
Over/undervoltage	2 seconds
All other faults	Manual, 2-225 minutes
Input Characteristics	
Supply Voltage	230VAC
Load Range	¹ /3 - 1 hp
Frequency	50/60Hz (Note: 50Hz will increase all delay timers by 20%)
Output Characteristics	
Output Contact Rating-SPST	1hp @ 240VAC (17 amps max.)
General Characteristics	
Operating Temperature	-40° to 55° C (-40° to 131° F)
Maximum Input Power	5 W
Standards Passed	
Electrostatic Discharge (ESD)	IEC 61000-4-2, Level 2, 4kV contact, 6kV air
Surge Immunity	IEC 61000-4-5, Level 4, 4kV line-to-line and line-to-ground
Safety Marks	
cUR*	UL508, C22.2 No. 14
Weight	10 oz.
Mounting Methods	Inside a Franklin TM , Pentek TM , or CentriPro TM control box

^{*} The 231-Insider-P is approved by UL for use in the FranklinTM, PentekTM and CentriProTM type 3R control boxes when installed properly. It is not intended to provide overload protection and should be used with thermally or impedance protected motors only.

How to order:

Part Number: 231-Insider-P

