

## Rain Bird PSRP Pump Start Relay

The Rain Bird PSRP Pump Start Relay monitors an irrigation system to protect the pump from damage due to low pressure.

Pressure is produced in the volute case and discharge of a pump when it is working. If this pressure does not exist, there is a problem within the pumping system.

Rain Bird PSRP Pump Start Relay monitors this pressure through the use of a pressure sensor located on the discharge side of a pump. At the beginning, or anytime during a zone cycle, if water is not available the pressure will drop within the pump and the pressure sensor will signal a time delay to begin counting. If pressure has not recovered over the timer cycle, the pump shuts down to save itself before damage occurs.

The resetting of the pressure sensor is automatic. The next cycle after an electrical signal shut down will have the same opportunity to build pressure. Since the sensor measures lack of pressure, as long as the pump is able to rebuild and maintain pressure, the pump will be allowed to run normally.

### Features

- 40 AMP certified relay
- 4-wire color coded wiring for easy installation
- Grounding Provision
- Completely automatic pump protection
- Adjustable time delay
- Bridges the gap between 24 VAC lawn controllers and 110/220V pump motors
- One model works for all pumps from 3/4 hp to 5 hp\*
- Low pressure sensor protects the pump if the inlet water flow is restricted, reduced, or completely blocked
- Housed in NEMA 3R weathertight enclosures with "baked-on" powder coating for long life in difficult environments



### Enclosure

- UL Listed, Nema 3R
- Powder-coated steel – Grey
- Dimensions - 8" w x 8" h x 4" d

### UL Listed Components

- Power Relay
- Electrical Rating: 120v – 24 FLA, 240v – 28 FLA
- Largest Motor: 120v – 2 hp, 240v – 5 hp
- Short Circuit Rating: 120v – 5kA, 240v – 5kA
- Control voltage required: 24 VAC or Direct
- Hertz: Sixty (60)
- Inrush/run: 950mA/360mA

### Cube Relay

- Nominal Voltage: 24 VAC coil
- Hertz: Sixty (60)
- Resistive (cos.=1): 10A

### External Devices

- Low Pressure Sensor – fixed at 20 psi
- High Temperature Sensor (optional feature) – fixed at 105°

### Models

- RBLC24WG1: Rain Bird PSRP Pump Start Relay, U-110 volt
- RBLC24WG2: Rain Bird PSRP Pump Start Relay, U-220 volt

### How To Specify

<b>RBLC24WG 1</b>	
<b>Model</b> RBLC24WG	<b>Coil Voltage</b> 1: 110 volts 2: 220 volts

Rain Bird Description	Coil Voltage	hp	Rain Bird MODEL#
Rain Bird PSRP Pump Start Relay U-110 volt	110	3/4 THRU 2	RBLC24WG1
Rain Bird PSRP Pump Start Relay U-220 volt	220	3/4 THRU 5	RBLC24WG2

\* National electrical code (nec) states all motors will be thermally protected from excessive "amperage draw." Most motors under 2 hp are supplied with thermal protection from the motor manufacturer. For motors over 2 hp, code-compliant Rain Bird PSRP pump protection is recommended.

NOTE: Circuit breakers are never classified as motor protection

NOTE: Check with your local health department for regulations and requirements for backflow prevention.

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