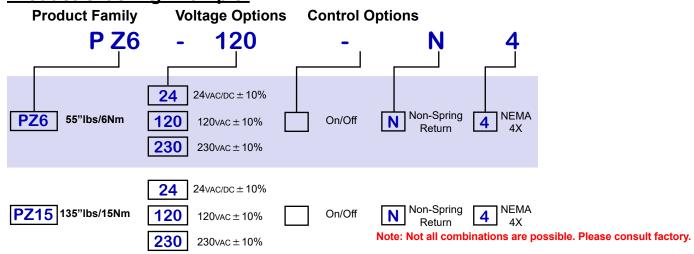
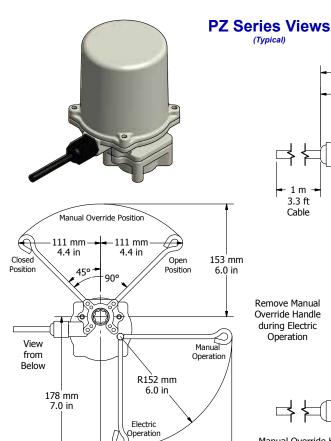


The PZ6 and PZ15 are compact electric actuators designed for load requirements up to **55''lbs** and **135''lbs** respectively. They are compact actuator designed for small space areas. The PZ series has a NEMA 4/4x environmental rating, comes standard with an ISO5211 F03/F05 mounting pattern and a 14mm double-square female drive shaft -- making either one an ideal actuator for small valve and damper applications. Available in 24vac, 120vac and 230vac supply voltages, the PZ6 and PZ15 are available ONLY as on/off (two position) models that can also be used in bump/jog applications. Available in this series.





# **PZ Series Dimensional Data**



Drive Coupling Fabrication Data

178 mm

7.0 in

14.00 +.00 mm

0.551

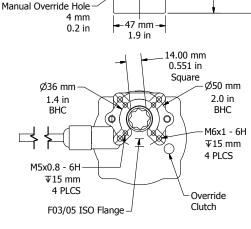
-0.000 in

14.00 <sup>+.00</sup> <sub>-.13</sub> mm

0.551 +0.000 - 0.005 in

### (Typical) 111 mm 4.4 in 69 mm 2.7 in 0 ഹ 85 mm 3.3 in 1 m 0 3.3 ft Cable 77 mm 3.0 in Remove Manual Override Handle during Electric

Operation



# **Application Notes:**

15.00 mm

0.591 in

Depth

- 1. These actuators are designed to be used in either a horizontal or upright position. Do NOT mount the actuator with the top below a horizontal position.
- 2. 1/4" PF conduit gland MUST be used to protect the NEMA 4X integrity of the housing.
- Use proper wire size to prevent actuator failure (see chart 3. on page 3 for proper wire sizing).
- There are no mechanical stops to set. 4.

Switch sequencing data is provided in the table below to show the changeof-state points during the rotation of the actuator from OPEN to CLOSED and back again. Switches for terminals 3 thru 6 are set at the factory and should NOT be changed.

156 mm

6.1 in

12/24v

Tall Cover

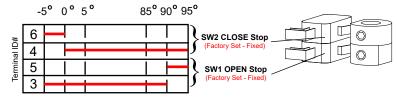
125 mm

4.9 in

120/230v

Short Cover

### Switch Logic Map and Switch/Cam Arrangement





# Wiring Diagrams for PZ Series

#### SAMPLE DIAGRAM

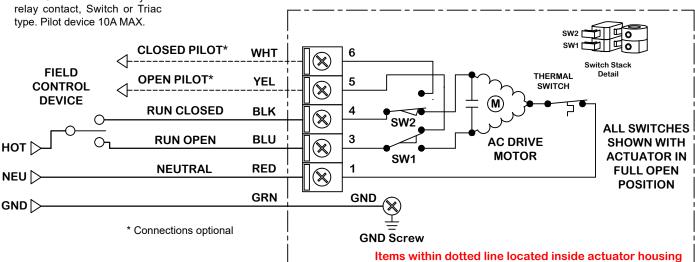
Refer to the proper IOM for your actuator for the correct wiring diagram or visit www.promationei.com.

## Field Control Device may be relay contact, Switch or Triac

### —— On/Off/Jog Control ———

PZ Series 120N4 Wiring Diagram

#### Please Note 24VDC is negative switched



### Wire Sizing Data

MAX distance between Actuator and Supply (feet)			
Actuator/ Voltage Amps	PZ6/P15 24VAC/ DC	PZ6/P15 120VAC	PZ6/P15 230VAC
Gage	1.5A	0.4A	0.3A
18	110	2066	5280
16	173	3247	8297
14	280	5245	13403
12	428	8021	20499

Wire sizing data is provided in the table above to assist in the selection of the proper wire size for ProMation PZ Series actuators using various wire sizes over distance. Please make sure to reference the correct voltage and do not exceed the indicated length of the wire run for each model.

Manual Release

Output Drive



The manual release protects the motor during manual override operations. The mounting system is ISO 5211 compliant with a 14mm double square drive.



The manual override tool in use (shown in the CLOSED position).

DO NOT operate the actuator under power with the override tool installed. Cams set at other than factory settings will damage the override tool if left in place while the motor is driving.



For sizing reference, the PZ6/PZ15 is shown mounted onto a 3/4" 3 piece SS body ball valve. The ISO5211 F03/F05 pattern provides for direct mounting onto ISO compliant valves, and the 14mm doublesquare drive socket easily adapts to various stem patterns through the use of available drive inserts.

# **ProMation Product Line**



ProMation Engineering follows a policy of continual product updates and enhancements. Our website is the best place to obtain the latest product documentation, including the wiring diagrams for these controllers.

Visit us at www.promationei.com or use the code to link to the site.



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