

# SINGLE PHASE DUPLEX GRINDER MODEL 123

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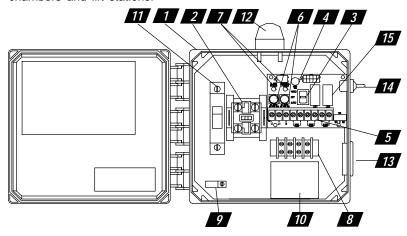
### **SUBMITTAL**

Job:	Representative:	Representative:	
	Order By:	Date:	
Engineer:	Submitted By:	Date:	
Contractor:	Approved By:	Date:	

## Single phase, duplex grinder capacitor start / run pump control.

The Model 123 control panels are designed to alternately control two 120, or 240 VAC single-phase pump in water and sewage installations. The alternating action equalizes pump wear. In addition to alternating pump control, these systems provide override control should either pump fail. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system. Common appliances include pump chambers and lift stations.





- Enclosure measures 14 x 14 x 6 inches (40.64 x 5.56 x 15.24 cm).
  NEMA 4X (ultraviolet stabilized thermoplastic with removable flanges for outdoor or indoor use).
  - $\bigstar$ Options selected may increase enclosure size and change component layout.
- 2. IEC Motor Contactor controls pump by switching electrical lines.
- 3. HOA Switch for manual pump control (mounted on circuit board).
- Alternating Circuit Board provides pump control and alternation (U.S. Patent 5,909,352).
- 5. Green Pump Run Indicator Light (mounted on circuit board).
- 6. Schematic Wiring Diagram
- 7. Incoming Pump Power Terminal Block / Pump Terminal Block
- 8. Circuit Breaker provides pump disconnect and branch circuit protection.
- 9. Control ON/OFF Switch (mounted on circuit board)
- 10. Ground Lugs
- 11. Float Status Indicator Lights (mounted on circuit board).
- 12. Control / Alarm Power Indicator Lights (mounted on circuit board).
- 13. Capacitator Start Module start/run capacitator kits.

## STANDARD ALARM PACKAGE

- 14. Red Alarm Beacon provides 360° visual check of alarm condition.
- **15. Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
- 16. Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested or horn to be silenced in an alarm condition. Horn automatically resets once alarm condition is cleared.

# **FEATURES**

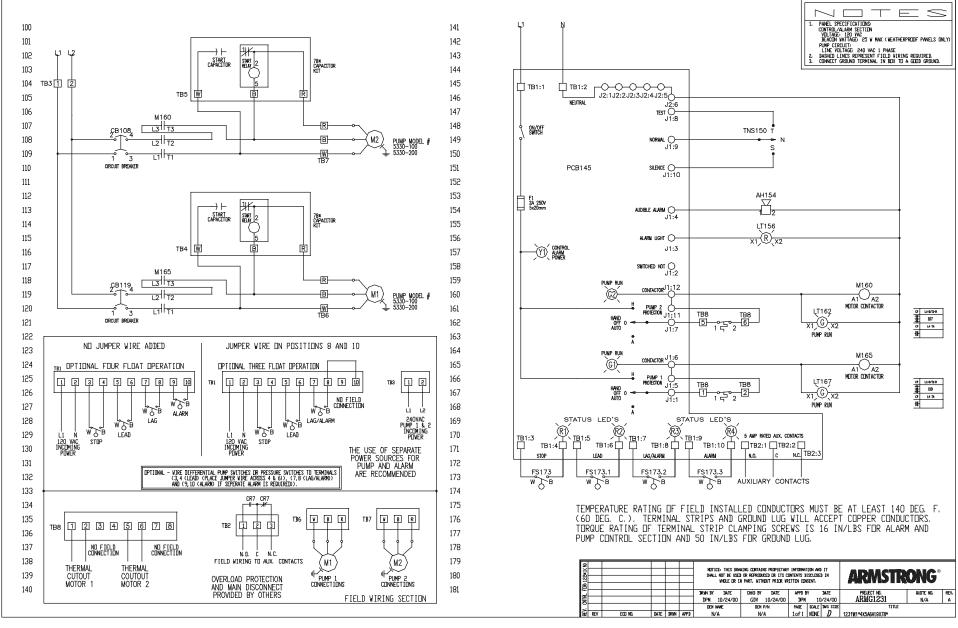
- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Complete with step-by-step installation instructions
- Three-year limited warranty
- Thermal cutout
- Auxiliary alarm contact, form C type
- Door mounted pump run indicator



#### **OPTIONS**

- 3A Alarm flasher
- $\star$  4A Low level cutout requires float
- ★ 4B Red low-level indicator & alarm must select 4A
- ★ 8A Elapsed time meter
- ★ 8C Event (cycle) counter
  - 9A Pump overload
  - 10E Lockable latch
- ★10F Lightning arrester
- ★10K Anti-condensation heater
- 19G Panel Wired for fourth control switch

# **SINGLE PHASE - DUPLEX GRINDER MODEL 123**



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