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### 11/17/22

## **AU Series** — Submittal/Technical Data

Industrial Electric Actuators — 21,300 in-lb to 70,800 in-lb

### **AU Series - Technical Specifications**

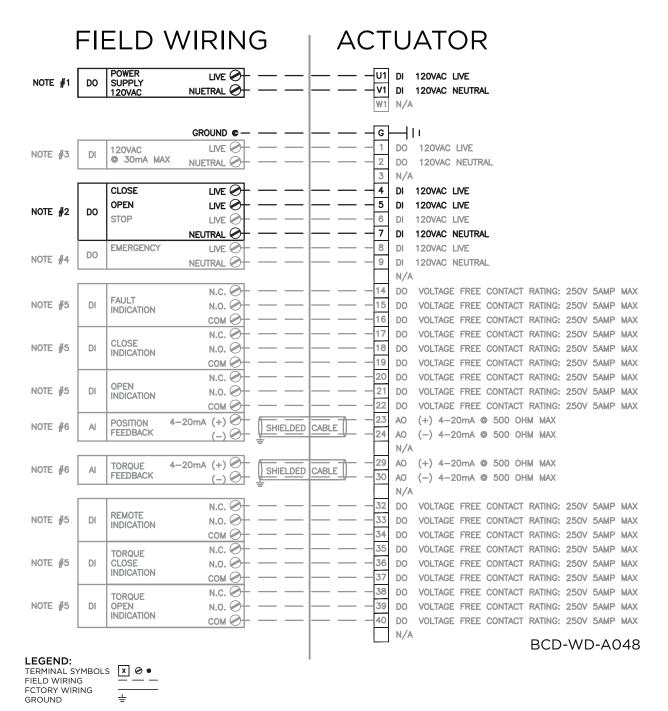
Technical Specifications - Actuator			
Control Type	AU-xxxx	On/Off or Floating	
	AU-xxxxSV	Modulating	
Power Supply	120 Vac, 60 Hz, +/- 10%, Single-Phase, Reversible, Permanent Split Capacitor Induction Motor		
Current Draw	Full Load	<b>AU-2130</b> 5.9 A	
		AU-4068 & AU-7080 6.4 A	
	Locked Rotor	14 A	
Motor Protection	1 Ph-1 thermal switch 284°F (140°C) Class F insulation, tropicalized winding		
Control Module Voltage	On/Off, Floating	110 - 120 VAC	
	Modulating	24 VDC	
Output Aux. Voltage	On/Off, Floating	115 VAC - 30 mA	
	Modulating	24 VDC - 100 mA	
Feedback Signal	4 to 20 mA		
Torque	21,300 in-lb to 70,800 in-lb (2,407 Nm to 8,000 Nm)		
Control Input Signal	Modulating	4 to 20 mA	
Output Contacts	6 Output contacts: 6 NO/NC without common 5A		
Output Signals	Default Setting - Fault, End pos. CLOSED End pos. OPEN, Selector sw. REMOTE, Torque fault CLOSE, Torque fault OPEN		
Terminal Strip	Power Terminals	8 to 10 AWG (6 to 10 mm <sup>2</sup> )	
	Controls Contacts	14 AWG (2.5 mm²)	
Enclosure	NEMA types 6P (IP68) Corrosion Protection: KS		
Heater	On/Off, Floating	120 V internal (12.5 W)	
	Modulating	24 V internal (12.5 W)	
Conduit Entries	Plug/socket 100 mm, 2 × 3/4" NPT; 1 × 1-1/4" NPT		
Operating Time	60 Seconds		
Angle of Rotation	92° maximum		
Manual Operation	Declutchable Override Handwheel	To close the valve, turn handwheel clockwise. Drive shaft (valve) turns clockwise in close direction.	
Dimensions	See Page AU-2		
Weights	AU-2130	158 lbs. (72 kg)	
	AU-4068	181 lbs. (82 kg)	
	AU-7080	278 lbs. (127 kg)	
Ambient Temperature	-13°F to 158°F (-25°C to 70°C)		
Fail Position	Loss of supply power - Fail-in-place		
Duty Cycle	On/Off, Floating	S2 -15 min continuous, max. six starts/minute	
	Modulating	S4 - 25% Intermittent duty	
Life Cycle	15,000 Full Stroke Cycles; 2,500,000 Repositions at Rated Running Torque		
Certifications	CE		
Warranty	3 Years limited from time of shipment.		
Disclaimer The performa	nce specifications are nominal and conform to accontable industry standards		

Disclaimer - The performance specifications are nominal and conform to acceptable industry standards.

For application at conditions beyond these specifications consult the local Bray office.

Bray, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

# **AU Series - Wiring (On/Off)**



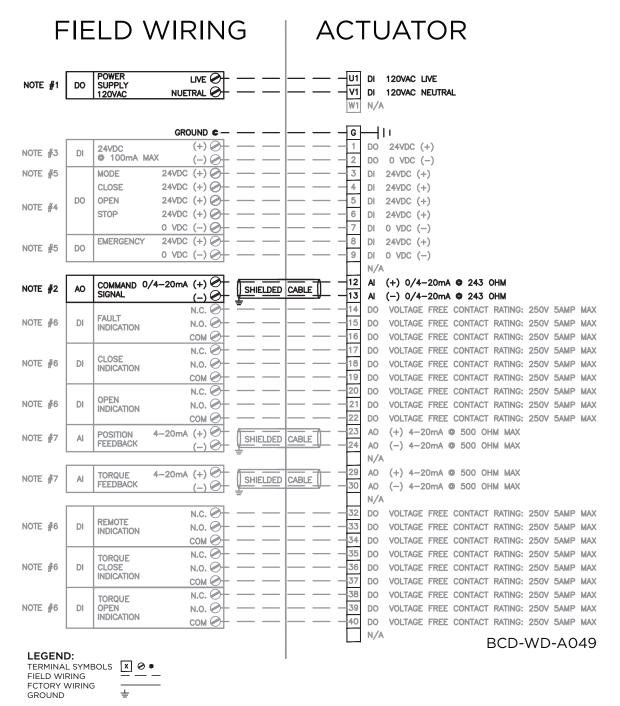
### CALIBRATION SEQUENCE:

ACTUATOR THAT WAS EACTORY MOUNTED TO VALVE WAS CALIBRATED BY THE FACTORY IN ACCORDANCE WITH THE APPLICABLE AUMA OPERATION MANUAL.

1. POWER INPUT FROM FIELD CONTROL PANEL TO ACTUATOR

- 2. 120VAC COMMAND SIGNAL INPUT FROM FIELD CONTROL PANEL TO ACTUATOR (LIVE AND NEUTRAL BOTH REQUIRED FOR OPERATION)
- 3. OPTIONAL: POWER OUTPUT FROM ACTUATOR TO BE USED BY FIELD CONTROL PANEL CONTACTS FOR ACTUATOR INPUTS
- 4. OPTIONAL: 120VAC COMMAND SIGNAL INPUT FROM FIELD CONTROL PANEL TO ACTUATOR (LIVE AND NEUTRAL BOTH REQUIRED FOR OPERATION). FUNCTIONAL PURPOSE IS DETERMINED BY PROGRAMMING SELECTION
- 5. OPTIONAL: DIGITAL OUTPUT FROM ACTUATOR, VOLTAGE FREE CONTACT. RATING: 250V 5AMP
- 6. OPTIONAL: ANALOG OUTPUT FROM ACTUATOR TO BE USED BY FIELD PLC FROM MONITORING. 4-20mA @ 500 OHM MAX

# **AU Series - Wiring (Modulating)**



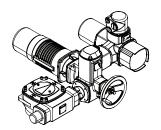
#### CALIBRATION SEQUENCE:

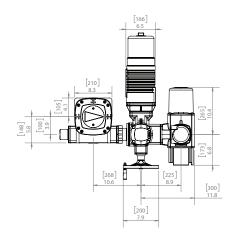
ACTUATOR THAT WAS FACTORY MOUNTED TO VALVE WAS CALIBRATED BY THE FACTORY IN ACCORDANCE WITH THE APPLICABLE AUMA OPERATION MANUAL

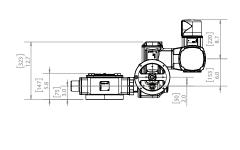
- 1. POWER INPUT FROM FIELD CONTROL PANEL TO ACTUATOR
- 2. 0/4-20mA COMMAND SIGNAL INPUT FROM FIELD CONTROL PANEL TO ACTUATOR
  3. OPTIONAL: POWER OUTPUT FROM ACTUATOR TO BE USED BY FIELD CONTROL PANEL CONTACTS FOR ACTUATOR INPUTS
- 4. OPTIONAL: 24VDC COMMAND SIGNAL INPUT FROM FIELD CONTROL PANEL TO ACTUATOR (POSITIVE (+) AND NEGATIVE (-) BOTH REQUIRED FOR OPERATION) 5. OPTIONAL: 24VDC COMMAND SIGNAL INPUT FROM FIELD CONTROL PANEL TO ACTUATOR (POSITIVE (+) AND NEGATIVE (-) BOTH REQUIRED FOR OPERATION). FUNCTIONAL PURPOSE IS DETERMINED BY PROGRAMMING SELECTION
- 6. OPTIONAL: DIGITAL OUTPUT FROM ACTUATOR, VOLTAGE FREE CONTACT. RATING: 250V 5AMP
- 7. OPTIONAL: ANALOG OUTPUT FROM ACTUATOR TO BE USED BY FIELD PLC FROM MONITORING. 4-20mA @ 500 OHM MAX

# **AU Series - Dimensions**

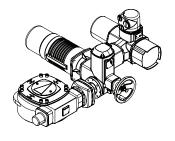
### AU-2130

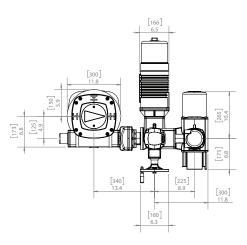


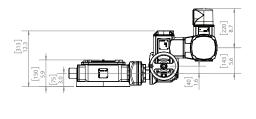




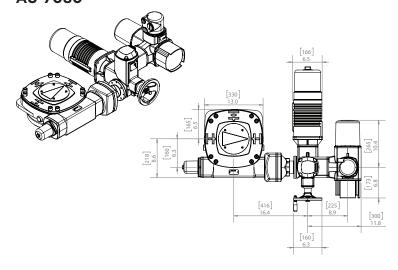
### AU-4068

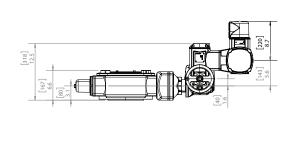






## AU-7080





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