



## VA(M)24-35 Series – Submittal/Technical Data

### Commercial Electric Actuators – 35 in-lbs (4Nm)

Technical Specifications - VA(M)24-35 Series Actuator			
Type	VA24-35-P	VA24-35-PTO	VAM24-35-P
Actuator Models	Non-Spring Return - Floating & On/Off (relay required)	Non-Spring Return - Floating with Time-Out & On/Off (relay required)	Non-Spring Return - Modulating
Torque	35 lb-in. (4 Nm)		
Operating Voltage	24 VAC +25%/-20% at 50/60 Hz		
Power Consumption	2.3 VA	3.0 VA	2.9 VA
Input Signal	24 VAC +25%/-20% at 50/60 Hz	24 VAC +25%/-20% at 50/60 Hz, with Time-Out	0(2) to 10 VDC or 0(4) to 20 mA with field-furnished 500 ohm resistor
Input Impedance	N/A		200k Ohms
Equipment Rating	Class 2 or Safety Extra-Low Voltage (SELV)		
Feedback Signal	N/A		0 to 10 VDC or 2 to 10 VDC for 90° (10 VDC at 1 mA), Corresponds to input signal span selection
Electrical Connection	48 in. (1.2 m) UL 444 Type CMP Plenum Rated cable with 19 AWG (0.75 mm <sup>2</sup> ) conductors and 1/4 in. (6 mm) ferrule ends and Connector for 3/8 in. (9.5 mm) Flexible Metal Conduit.		
Manual Override	External Push Button		
Time Out feature	N/A	Electronic stall detection ensures higher reliability by deactivating the actuator motor when a stall condition is detected	N/A
Runtime for 90° of Rotation	60 Seconds at 60 Hz / 72 Seconds at 50 Hz		
Rotation Range	93° ±3°, CW or CCW		
Cycle Life	100,000 Full Stroke Cycles; 2,500,000 repositions at rated running torque		
Mechanical Connections	<b>Round Shafts</b> - Up to 1/2 in. (13 mm) <b>Square Shafts</b> - Up to 3/8 in. (10 mm)		
Enclosure	NEMA 2 (IP42)		
Ambient Conditions (Non-Condensing)	<b>Operating</b> — -4 to 140°F (-20 to 60°C); 90% RH Max. <b>Storage</b> — -20 to 150°F (-29 to 66°C); 90% RH Max.		
Audible Noise Rating	35 dBA Nominal at 39-13/32 in. (1 meter)		
Dimensions	5.16 x 2.81 x 2.06 in. (131 x 71 x 52 mm)		
Weight	1.25 lb (0.55 kg)		
Agency Certifications	<b>United States/Canada</b> - United States UL Listed, File E27734, CCN XAPX (United States) and XAPX7 (Canada) Actuator Housing is Plenum Rated per CSA C22.2 No. 236/UL 1995, Heating and Cooling Equipment		
	<b>Europe</b> - CE Mark - Product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC and the Low Voltage Directive 2006/95/EC		
	<b>Australia/New Zealand</b> - C-Tick Mark Australia/NZ Emissions Compliant		
Warranty	5 Years limited from time of shipment.		

Warning - These actuators are designed for use only in conjunction with operating controls. Where an operating control failure would result in personal injury and/or loss of property, it is the responsibility of the installer to add safety devices or alarm systems that protect against, and/or warn of, control failure.

To avoid excessive wear or drive time on the motor, use a controller and/or software that provides a time-out function to remove the signal at the end of rotation (stall).

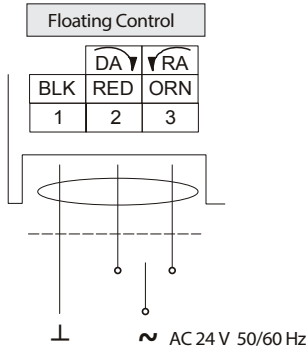
Disclaimer - The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the nearest Bray office. Bray controls shall not be liable for damages resulting from misapplication or misuse of its products.

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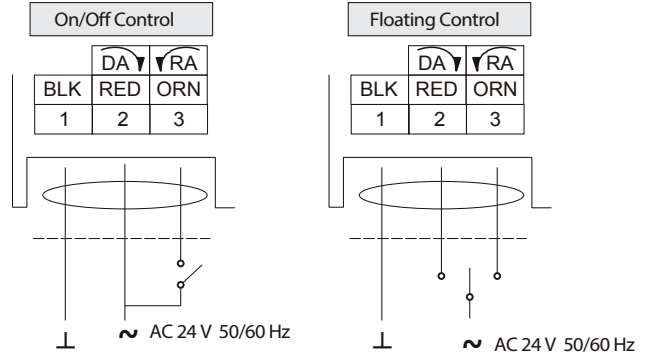
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### Wiring

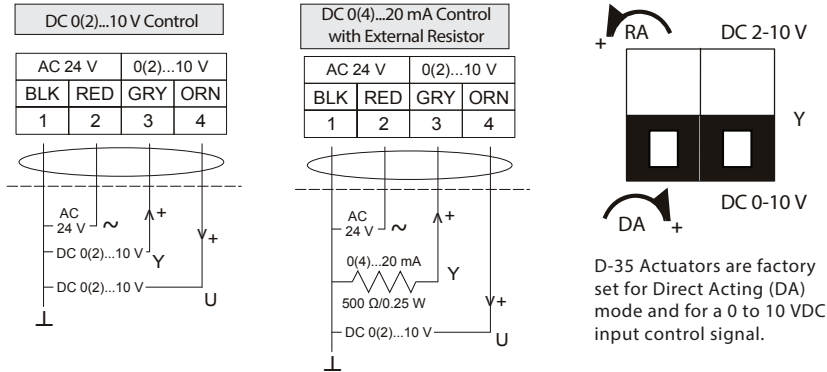
**VA24-35-P**  
PLENUM CABLE



**VA24-35-PTO**  
PLENUM CABLE



**VAM24-35-P**  
PLENUM CABLE



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### Dimensions

