5 Bray commercial

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VA(M)S-70 Series — Submittal/Technical Data

70 lb-in. — Spring Return —On/Off, Floating & Modulating — Auxiliary Switches

		VAS24-70-(A)	VAS24-70-T-(A)	VAMS24-70-(A)	VAS120-70-(A)	
Type	Actuator Models	Spring Return On/Off with optional Auxiliary Switches (-A)	Spring Return On/Off & Floating with optional Auxiliary Switches (-A)	Spring Return Modulating with optional Auxiliary Switches (-A)	Spring Return On/Off with optional Auxiliary Switches (-A)	
	Torque					
	Operating Voltage	24 VAC (18 to 30 V) at 50/60 Hz 24 VDC (21.6 to 28.8 V)	24 VAC (19.2 to 28.8 V) at 50/60 Hz 24 VDC (21.6 to 28.8 V)		AC 120 V (102 to 132 V) at 60 Hz	
	Power Consumption	VAC - 6.1 VA Running, 1.2 VA Holding	VAC - 7.9 VA Running, 5.5 VA Holding VDC - 3.5 W Running, 1.9 W Holding		0.05 A Running, 0.03 A Holding	
		VDC - 3.5 W Running, 0.5 W Holding				
	Input Signal	N/A	N/A	0(2) to 10 VDC 0(4) to 20 mA (with 500- ohm Resistor)	N/A	
	Min. Transformer Size	7 VA per Actuator	8 VA per Actuator		N/A	
Electrical	Input Signal Adjustments	N/A	AC 19.2 to 28.8 V at 50/60 Hz or DC 24 V +20%/-10%,Class 2 or SELV, Minimum Pulse Width: 500 ms	Factory Setting - DC 0 to 10 V, CW Rotation with Signal Increase Selectable DC 0 (2) to 10 V or 0 (4) to 20 mA with Field- Furnished 500 ohm 0.25 W Min. Resistor Switch Selectable - Direct or Reverse Action with Signal Increase	N/A	
	Control Input Impedance	N/A	3000 Ohms	100k Ohms, Current Input: 500 Ohms with Field Fur- nished 500 Ohm Resistor	N/A	
	Feedback Signal	N/A Desi up to Rota		DC 0 (2) to 10 V for Desired Rotation Range up to 95°. Corresponds to Rotation Limits, 0.5 mA at 10 V Maximum	N/A	
	Auxiliary Switch Rating	(-A) Models) Two Single-Pole, Double-Throw (SPDT), Double-Insulated Switches with Gold over Silver Contacts: AC 24 V, 50 VA Pilot Duty			(-A) Models) Two Sin- gle -Pole, Double-Throw (SPDT), Double-Insulated Switches with Gold over Silver Contacts: AC 120 V, 5.8 A Resistive, 1/4 hp, 275 VA Pilot Duty	
	Equipment Rating	Class 2 or Safety Extra-Low Voltage (SELV)			N/A	
	Electrical Connection	48 in. UL 758 Type AWM Halogen-Free Cable w/ 18 AWG (0.85 mm²) Conductors & 0.			25 in. (6 mm) Ferrule Ends	
	Conduit Connections	Integral Connectors for 3/8 in. (10 mm) Flexible Metal Condu			it	
	Manual Override					
Uperation	Spring Return		turn urn			
adr	Rotation Range	Maximum Full St	Iodulating Only))			
9	Electric Stall	Protects from overload at all angles of rotation				

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	VAS24-70-(A)	VAS24-70-T-(A)	VAMS24-70-(A)	VAS120-70-(A)	
Actuator Models	Spring Return On/Off with optional Auxiliary Switches (-A)	Spring Return On/Off & Floating with optional Auxiliary Switches (-A)	Spring Return Modulating with optional Auxiliary Switches (-A)	Spring Return On/Off with optional Auxiliary Switches (-A)	
Runtime for 90° of Rotation	Power On (Running) 55 to 71 Seconds for 0 to 70 Ib-in (8 N·m) Load, at All Operating Conditions 60 Seconds Nominal at Full Rated Load (0.25 rpm) Power Off (Spring Return- ing) 13 to 26 Seconds for 0 to 70 Ib-in (8 N·m) Load, at Room Temperature 21 Seconds Nominal at Full Rated Load, 39 Seconds Maximum with 70 Ib-in (8 N·m) Load at -4°F (-20°C) 108 Seconds Maximum with 53 Ib-in (6 N·m) Load at -40°F (-40°C)	Ib·in (8 N·m) Load, At A Power Off (Spring Running) Ib·in (8 N·m) Load, a 22 Seconds Nominal at Fu	econds Constant for 0 to 70 NI Operating Conditions 17 to 25 Seconds for 0 to 70 t Room Temperature III Rated Load, 94 Seconds I·m) Load, at -40°F (-40°C)	Power On (Running) 55 to 71 Seconds for 0 to 70 Ib in (8 N·m) Load, at All Operating Conditions 60 Seconds Nominal at Fu Rated Load (0.25 rpm) Power Off (Spring Return- ing) 13 to 26 Seconds for (to 70 Ib in (8 N·m) Load, a Room Temperature 21 Seconds Nominal at Ful Rated Load, 39 Seconds Maximum with 70 Ib in (8 N·m) Load at -4°F (-20°C) 108 Seconds Maximum wit 53 Ib in (6 N·m) Load at -40°F (-40°C)	
Cycle Life	60,000 Full Stroke Cycles with 70 lb·in. (8 N·m) Load, 1,500,000 Repositions with 70 lb·in. (8 N·m) Load				
Mechanical Connections	Round Shafts - 5/16 to 5/8 in. (8 to 16 mm) Square Shafts - 1/4 to 1/2 in. (6 to 12 mm)				
Enclosure	NEMA 2 (IP54) for all mounting orientations			N/A	
Ambient Conditions (Non-Condensing)	Operating — -40° to 140°F (-40° to 60°C); 90% RH Maximum, Non-co Storage — -40° to 185°F (-40° to 85°C); 95% RH Maximum, Non-co				
Audible Noise Rating	Running — < 47 dBA at 70	Distance of 39 Holding — < 20 dBA at a D Returning — <52 dBA a	0 lb·in (8 N·m) Load, at a I-13/32 in. (1 m) Distance of 39-13/32 in. (1 m) t 70 lb·in. (8 N·m) Load - f 39-13/32 in. (1 m))	Running — < 47 dBA at 70	
Dimensions	6.33" (L) x 3.90" (W) x 2.26" (H)				
	3.5 lb. (3.9 lb w/ Aux. Switches)			4.2 lb.	
Weight			o UL 60730-1A: 2003-08, Ed. 3.1, Automatic Electrical Controls for Household 730-2-14: Ed. 1, Part 2, Particular Requirements for Electric Actuators. to UL 60730-1:02-CAN/CSA: July 2002, 3rd Ed., Automatic Electrical Controls id CSA C22.2 No. 24-93 Temperature Indicating and Regulating Equipment ince with the essential requirements and other relevant provisions of the EMC 004/108/EC and Low Voltage Directive 2006/95/EC.		
Weight Agency Certifications	UL Listed, CCN XAPX, File and Similar Use; an UL Listed, CCN XAPX7, File for Household and Simil CE Mark - This product is i	nd UL 60730-2-14: Ed. 1, Part 2 E27734; to UL 60730-1:02-CA ar Use; and CSA C22.2 No. 24 n compliance with the essenti	2, Particular Requirements for AN/CSA: July 2002, 3rd Ed., A -93 Temperature Indicating an al requirements and other rele	Electric Actuators. utomatic Electrical Controls d Regulating Equipment want provisions of the EMC	
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IMPORTANT: Do not install multiple VAMS series actuators connected to the same mechanical load. Master-slave application of DMS or VAMS series actuators requires that each actuator be connected to independent loads.

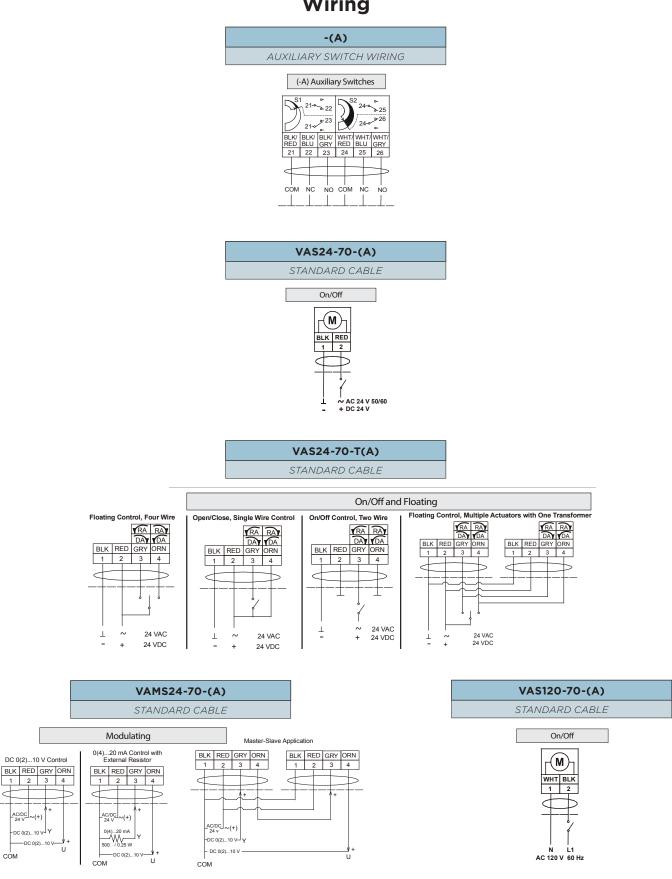
Warning - These actuators are designed for use only in conjunction with operating controls. Where an operating control failure would result in personal injury and/or loss of property, it is the responsibility of the installer to add safety devices or alarm systems that protect against, and/or warn of,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



Wiring



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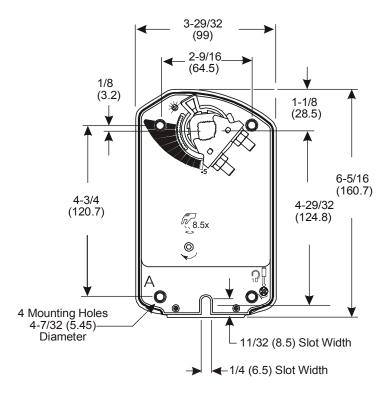
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AC/DC 24 V ~(+)

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Dimensions

