



## GA(M)24-67(-FS) Series — Submittal/Technical Data

### Commercial Electric Globe Valve Actuator — 67 lb. Force

Technical Specifications - Actuators				
Actuator Models	For CG Globe Valves Sizes 1/2" to 1"			
	GA24-67 <sup>1</sup>	GA24-67-FS <sup>1</sup>	GAM24-67	GAM24-67-FS
	Floating		Modulating	
	Non-Fail Safe	Fail Safe	Non-Fail Safe	Fail Safe
Positioning Force	67 lbf (300 N)			
Supply Voltage	24 VAC (+/- 20%)		24 VAC(+/-15%) or 24 VDC (+/-20%)	
Frequency	50/60 Hz			
Power Consumption	1.0 VAC	3.0 VAC	3.5 VAC; 1.5 W VDC	
Control Signal	3-Position Floating: (Terminal Y1, Y2)		Modulating: 0-10 VDC (Terminal Y)	
Input Impedance	N/A	100.0k Ω		
Feedback Signal	N/A		0-10VDC	
Parallel Operation (Number of Actuators)	10			
Operation Time	88 s ± 25%		27.5 s ± 25%	
Fail Safe Function	N/A	Capacitor Driven (30 sec.)	N/A	Capacitor Driven (30 sec.)
Stall Detection	Current Limit			
Enclosure Rating	NEMA 2/ (Equivalent to IP20) - Not intended for outdoor use without additional protection.			
Ambient Temperature	Operation Temp: 34° to 122°F (1° to 50°C) Storage Temp: -13° to 158°F (-25° to 70°C)			
Humidity Rating (Non Condensing)	5 to 95% R.H.			
Wire Size	18...20 AWG (0.5..0.75 mm2), <0.22 In.			
Electrical Connection	G 1/2" Flex Conduit			
Manual Override	3-mm Allen Wrench			
Dimensions	(L) 5.2" x (W) 1.9" x (H) 3.8"			
Weight	10.0 ounces. (283g)	10.5 ounces (298g)	9.7 ounces (276g)	10.5 ounces (298g)
Warranty	5 Years limited from time of shipment			
Agency Listing	UL60730-2-14; CSA- CAN E60730-1,E730-2-14 FCC CFR 47 Part 15 Class B; CAN ICES-3 (B)/NMB-3 (B)			

#### Disclaimer

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

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

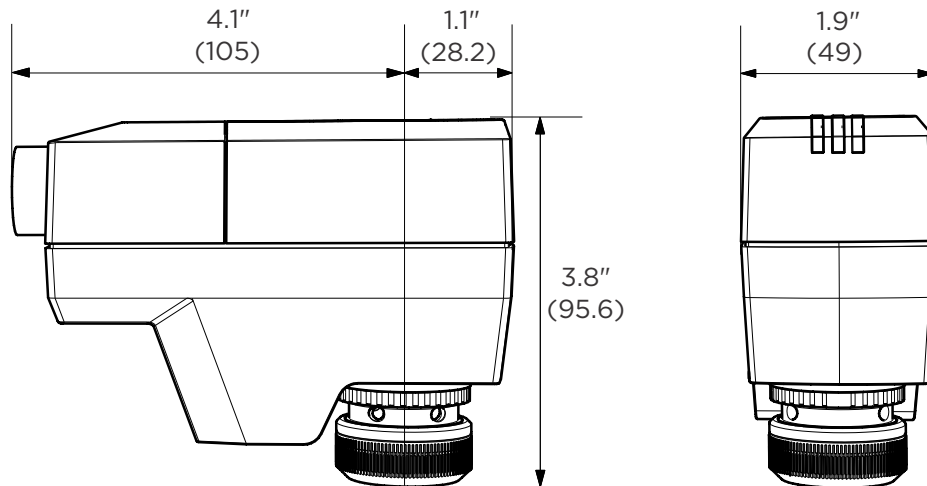
Bray, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

<sup>1</sup>GA24-67 & <sup>1</sup>GA24-67-FS: For parallel operation of floating fail-safe actuators all actuators in parallel must be the same part number.

## GA(M)24-67(-FS) Series Actuators - Model Number Matrix

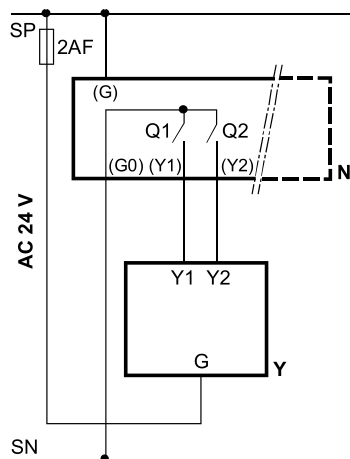
GA24-67	Non-Fail Safe, 24 VAC, Floating
GAM24-67	Non-Fail Safe, 24 VAC/DC, 0 to 10 VDC, Modulating
GA24-67-FS	Fail Safe, 24 VAC, Floating
GAM24-67-FS	Fail Safe, 24 VAC/DC, 0 to 10 VDC, Modulating

## GA(M)24-67(-FS) Series Actuators - Dimensions

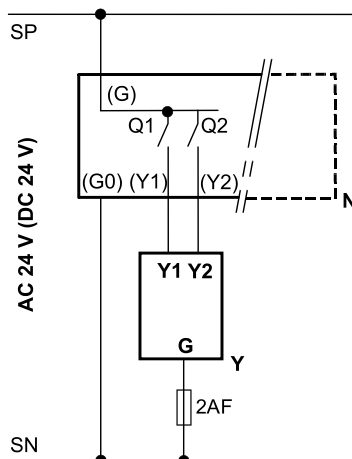


## GA24-67 Series Actuators - On/Off Wiring

### Neutral switch



### Hot switch



**N** = Controller

**Y** = Actuator

SP, G = System Potential AC 24 V

SN, G0 = System Neutral

Y1, Y2 = Control Signal OPEN, CLOSE

Q1, Q2 = Controller Contacts

2AF = Fuse Rated Current is 2A

### Connection Terminal

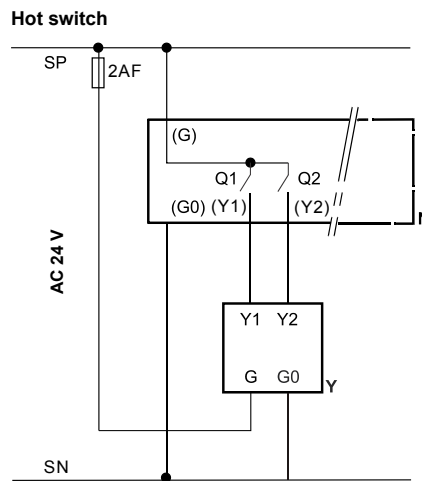
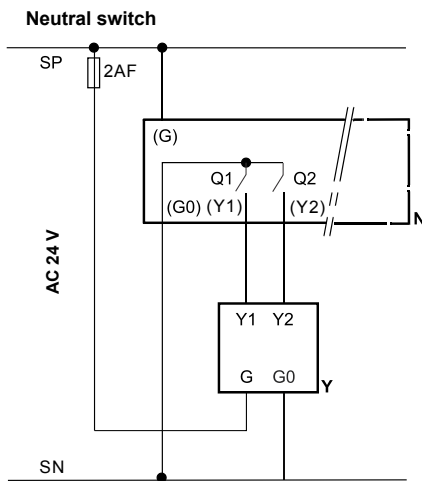


G System Potential (AC 24 V)

Y1 3-Position

Y2 3-Position

## GA24-67-FS Series Actuators - On/Off with Failsafe Wiring



**N** = Controller

**Y** = Actuator

SP, G = System Potential AC 24 V

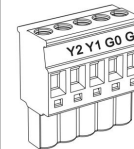
SN, G0 = System Neutral

Y1, Y2 = Control Signal OPEN, CLOSE

Q1, Q2 = Controller Contacts

2AF = Fuse Rated Current is 2A

### Connection Terminal



G System Potential  
(AC 24 V)

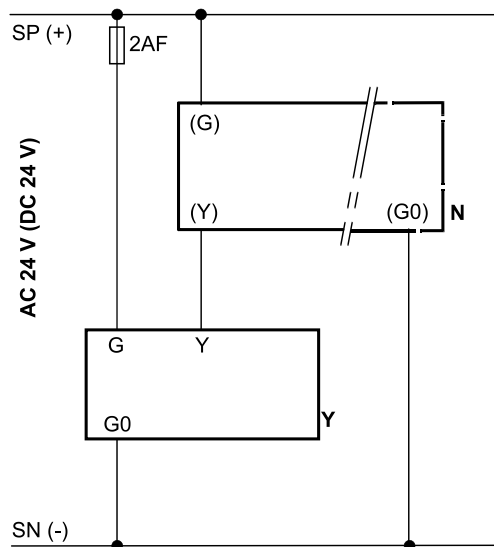
G0 System Neutral

Y1 Stem Extends

Y2 Stem Retracts

The GA24-67-FS floating fail-safe actuators cannot be run in parallel with legacy actuators.  
For parallel operation all actuators in parallel must be the same part number.

## GAM24-67 & GAM24-67-FS Series Actuators - Modulating Wiring



**N** = Controller

**Y** = Actuator

SP, G = System potential AC/DC 24 V

SN, G0 = System neutral

Y = Control signal

U = Feedback signal

M = Measurement reference

2AF = Fuse rated current is 2A

### Connection Terminal



G System Potential  
(AC 24 V)

G0 System Neutral

Y Control Signal DC...10 V

U Feedback Signal

M Measurement Reference