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CATALOG KỸ THUẬT · JOHNSON CONTROLS

Động cơ van gió M9104

4 Nm không lò xo hồi · bản VA9104 cho van bi

M9104 Johnson Controls – động cơ van gió 4 Nm không lò xo hồi, on/off, floating hoặc 0–10 V, êm 35 dBA, bản VA9104 lắp trực tiếp van bi VG1000.

Mã: M9104 · Hãng: Johnson Controls · Hotline: 093 797 2339

dlk.com.vn/m9104-johnson-controls-dong-co-van-gio.html



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M9104 Series Electric Non-Spring Return Actuators

Introduction

The M(VA)9104 series non-spring return electric actuators are compact and suitable for damper or water valve control in HVAC systems. This compact actuator offers an operating torque of 4Nm and is available in a variety of control modes such as on/off, floating, and proportional control.

The series M9104 damper actuators are suitable for diameters up to 13mm (1/2 in.) round damper shaft or up to 10mm (3/8 in.) diameter damper shafts. The VA9104 Series Ball Valve Actuator can be installed directly on Johnson Controls VG1000 Series ball valves without the need for additional mounting accessories.



Features

Characteristic	Benefit
The maximum audible noise level at a distance of 1 meter is 35 dBA	Silent operation
Synchronous drive (-AGA, -IGA, -GGA models)	Constant running time, independent of load
Electromagnetic clutch protection	Protects the actuator gear from damage due to over torque
100,000 cycles	Assure long time reliability
Direct mounting using a single screw	Save installation time and cost
Manual Override	Adjust the valve manually without power supply
Electrical connection of cable or screw terminals	Quick and easy for wiring
Optional field-mounted protective cover	Follow NEMA 4X, IP66 compliant



Electric Damper Actuator

Selection Chart

Code Number	Torque	Rotation Time for 90°	Power Requirement		Input Signal			Position Feedback	Electrical connection	
	N·m	Running (second)	24VAC, 50/60Hz	100 to 240VAC, 50/60Hz	Floating control (without timeout function).	On/off or floating control (with timeout function).	Proportional control	DC 0(2) to10V	1.2m PVC Cable	M3 screw terminals (Requires a flat-blade screwdriver)
M9104-AGA-1S M9104-AGA-2S	4	60 @60 Hz 72 @50 Hz	×		×				×	
VA9104-AGA-1S VA9104-AGA-2S	4	60 @60 Hz 72 @50 Hz	×		×				×	
M9104-IGA-1S	4	60 @60 Hz 72 @50 Hz	×			×			×	
VA9104-IGA-1S	4	60 @60 Hz 72 @50 Hz	×			×			×	
M9104-IUA-1S	4	60 @60 Hz 72 @50 Hz		×		×			×	
VA9104-IUA-1S	4	60 @60 Hz 72 @50 Hz		×		×			×	
M9104-GGA-1S	4	60 @60 Hz 72 @50 Hz	×				×	×	×	
VA9104-GGA-1S	4	60 @60 Hz 72 @50 Hz	×				×	×	×	
M9104-AGA-3S	4	60 @60 Hz 72 @50 Hz	×		×					×
VA9104-AGA-3S	4	60 @60 Hz 72 @50 Hz	×		×					×
M9104-IGA-3S	4	60 @60 Hz 72 @50 Hz	×			×				×
VA9104-IGA-3S	4	60 @60 Hz 72 @50 Hz	×			×				×
M9104-GGA-3S	4	60 @60 Hz 72 @50 Hz	×				×			×
VA9104-GGA-3S	4	60 @60 Hz 72 @50 Hz	×				×			×

Technical Specifications

Power Requirements	M(VA)9104-AGA-xS	AC 24 V +25%/-20%, 50/60 Hz, 2.1 VA, Class 2, SELV
	M(VA)9104-IGA-xS	AC 24 V +25%/-20%, 50/60 Hz, 3.0 VA, Class 2, SELV
	M(VA)9104-GGA-xS	AC 24 V +25%/-20%, 50/60 Hz, 2.9 VA, Class 2, SELV
	M(VA)9104-IUA-xS	AC 100 to 240 V (-15%+10%), 50/60 Hz, 0.07A, 7.5 VA
Control Type	M(VA)9104-AGA-xS	Floating control without timeout
	M(VA)9104-IGA-xS	On/off or floating control with timeout
	M(VA)9104-GGA-xS	Proportional control
	M(VA)9104-IUA-xS	On/off or floating control with timeout
Input Signal	M(VA)9104-AGA-xS	AC 24 V +25%/-20%, 50/60 Hz, Class 2, SELV, without timeout
	M(VA)9104-IGA-xS	AC 24 V +25%/-20%, 50/60 Hz, Class 2, SELV, with timeout
	M(VA)9104-GGA-xS	DC 0 (2) to 10 V or 0 (4) to 20 mA with field furnished 500 ohm resistor
	M(VA)9104-IUA-xS	AC 100 to 240 V (-15%+10%), 50/60 Hz, 0.07A, 7.5 VA
Feedback signal	M(VA)9104-GGA-1S	0 to 10 VDC or 2 to 10 VDC for 90° , Corresponds to input signal span selection
Rotation range	M (VA) 9104 series	93° ±3° , CW or CCW
Cycles	M (VA) 9104 series	100,000 Full Stroke Cycles; 2,500,000 Repositions at Rated Running Torque
Audible noise	M (VA) 9104 series	35 dBA Nominal at 1 m
Electrical connections	M(VA)9104-xGA-3S	M3 screw terminal block (requires a flat blade screwdriver).
	M(VA)9104-xGA-1S	48 in. (1.2 m) UL 444 Type CMP Plenum Rated Cable with 19 AWG (0.75 mm ²) conductors and .25 in. (6 mm) ferrule ends
	M(VA)9104-IUA-1S	1.2m (48 in.) Cable, with 18 AWG (1.02 mm) conductor and 10mm (3/8 in.).Flexible metal conduit fittings
Mechanical connections	M9104 series	Up to 1/2 in. (13 mm) Diameter Round Damper Shaft or 3/8 in. (10 mm) Square Damper Shaft
IP rating	M(VA)9104-xxA-1S/2S	NEMA 1, IP42
	M(VA)9104-xxA-3S	NEMA 1, IP40
Operation conditions	M (VA) 9104 series	-4 to 140° F (-20 to 60° C); 90% RH Maximum, Noncondensing
Storage conditions	M (VA) 9104 series	-20 to 150° F (-29 to 66° C); 90% RH Maximum, Noncondensing
Shipping Weight	M9104 series	0.5 kg (1.0 lb)
	VA9104 series	0.55 kg (1.25 lb)
Compliance	M (VA) 9104 series	USA: UL Listed, CCN XAPX, File 27734 Plenum rated, UL2043, suitable for use in other environmental spaces (plenums) in accordance with section 300.22.(c) of the National Electrical Code
		Canada: cUL Listed, CCN XAPX7, File 27734 Plenum Rated Per CSA 22.2 No. 236/UL 1995, Heating and Cooling Equipment
		Europe: Johnson Controls, Inc. declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive and the Low Voltage Directive.
		Australia & New Zealand: C-Tick, Australian/New Zealand Emission Compliant
		United Kingdom: UKCA DoC, UK compliant

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



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