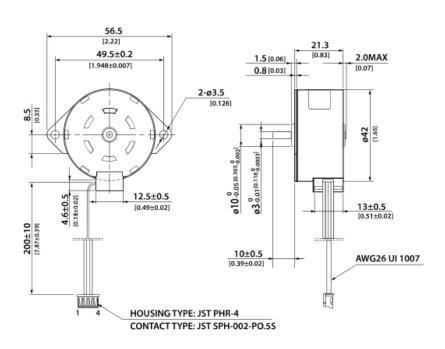


MOTOR SPECIFICATIONS



Part Number PM42L-075-042 Rate Voltage 24 **Constant Current** 0.55A/Phase Phase Number 2 7.5° Step Angle **Excitation Method** Bipolar Full-Step **Insulation Class** Class B Resistance per Phase $70 \pm 10\%$ 11.8± 20% Inductance per Phase A/B **Holding Torque** 950g-cm Min **Detent Torque** 140 g-cm Max $100M\Omega$ min. Insulation Resistance

DIMENSIONS



CONNECTOR PIN LOCATION								
PIN NO.	COLOR	CCW CW CW (Seen from flange side)			PHASE			
1	BLACK	ON			ON	ON	Α	
2	BROWN		ON	ON			A	
3	ORANGE	ON	ON			ON	В	
4	YELLOW			ON	ON		В	

PERFORMANCE CURVE

PM42L-075-042 24VDC, 0.55 Amps Peak, Bipolar Series, Full Stepping 90 PULL-OUT PULL-IN 80 Pull-in & Pull-out Torque (g-cm) 70 60 50 40 30 20 10 1000 1200 1400 1600 0 200 400 800

OPERATING CONDITIONS

Operating Temperature	-20C - +50C			
Operating Humidity	15 - 85% RH			
Storage Temperature	-30C - +70			
Storage Humidity	15 - 85% RH			

MECHANICAL SPECIFICATIONS

Radial Shaft Loading	7.5N Max			
Axial Shaft Loading	1N Max			
Radial Shaft Play	0.05 mm Max			
Axial Shaft Play	0.6 mm Max			
Mass	Approximate 120g			
Rotor Inertia	Approximate 11.57 g-cm²			

OPERATION & USAGE TIPS

Pulse Rate (pps)



Do not disassemble motors; a significant reduction in motor performance will occur.



Do not machine shafts; this will have a negative effect on shaft run out and perpendicularity



motor from drive while in operation.



Do not use holding torque/detent torque of motor as a fail safe brake



Do not hold motor by lead wires.



Do not exceed the rated current; this wil burn the motor.

FAILURE TO COMPLY WITH THESE RECOMMENDATIONS WILL VOID ALL WARRANTY TERMS

RECOMMENDED



Microstepping Driver R208



Single Axis Controller + Driver **R256-RO**

Motion Control, Solved.

MOTOR ENGINEERING & MANUFACTURING







Small Batch to OEM Volume Production

