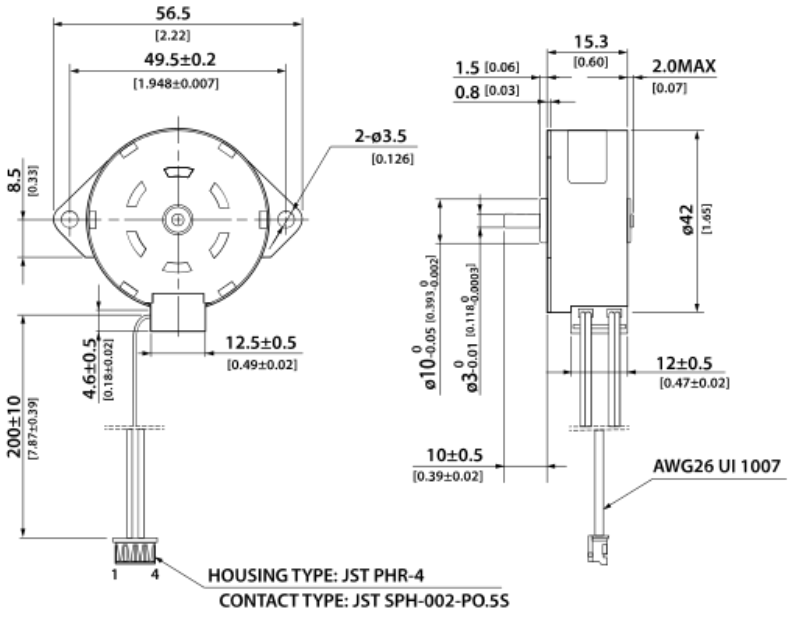
LIN ENGINEERING
MOTOR SPECIALISTS IN MOTION
A MOONS' COMPANY

16245 Vineyard Blvd., Morgan Hill, CA 95037
Phone: (408) 919-0200 Fax: (408) 919-0201
Email: sales@linengineering.com | techsupport@linengineering.com
www.linengineering.com

MOTOR SPECIFICATIONS

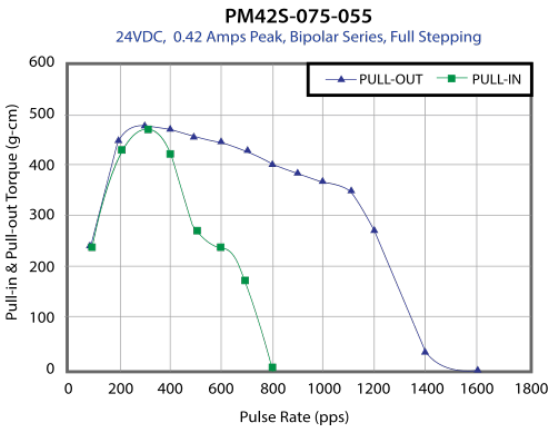
Part Number	**PM42S-075-055**
Rate Voltage	24
Constant Current	0.42A/Phase
Phase Number	2
Step Angle	7.5°
Excitation Method	Bipolar Full-Step
Insulation Class	Class B
Resistance per Phase	11.5Ω ± 10%
Inductance per Phase A/B	12± 20%
Holding Torque	640g-cm Min
Detent Torque	85 g-cm Max
Insulation Resistance	100MΩ min.

DIMENSIONS



CONNECTOR PIN LOCATION							
PIN NO.	COLOR	CCW ◄——► CW (Seen from flange side)					PHASE
1	BLACK	ON			ON	ON	A
2	BROWN		ON	ON			$\overline{A}$
3	ORANGE	ON	ON			ON	B
4	YELLOW			ON	ON		$\overline{B}$

PERFORMANCE CURVE



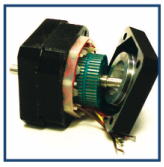
OPERATING CONDITIONS

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

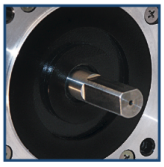
MECHANICAL SPECIFICATIONS

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 90g
Rotor Inertia	Approximate 7.26 g-cm^2

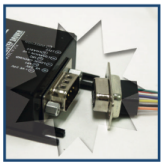
OPERATION & USAGE TIPS



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

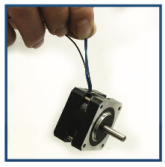


Do not machine shafts; this will have a negative effect on shaft run out and perpendicularity.



Do not disconnect 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