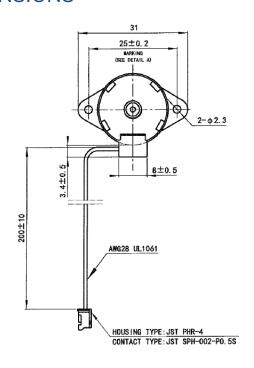


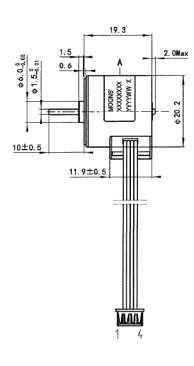


DIMENSIONS



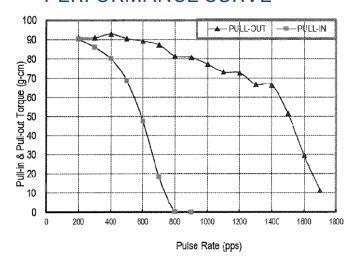
MOTOR SPECIFICATIONS

Part Number	PM20L-180-043
Rate Voltage	12
Constant Current	0.43A/Phase
Phase Number	2
Step Angle	18°°
Excitation Method	Bipolar Full-Step
Insulation Class	Class B
Resistance per Phase	7Ω ± ? ± 10%
Inductance per Phase A/B	5.6± 20%
Holding Torque	120g-cm Min
Detent Torque	25 g-cm Max
Insulation Resistance	100M? min.Ω min.



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

PERFORMANCE CURVE



OPERATING CONDITIONS

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

MECHANICAL SPECIFICATIONS

Radial Shaft Loading	5N Max
Axial Shaft Loading	1N Max
Radial Shaft Play	0.05 mm Max
Axial Shaft Play	0.6 mm Max
Mass	Approximate 27g
Rotor Inertia	Approximate 0.41 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

Motion Control, Solved.

MOTOR ENGINEERING & MANUFACTURING







Small Batch to OEM Volume Production

