

2 Phase Stepper Motor

- Six leads for various wiring configurations
- Wide selection range to suit various applications
- 1.1~66 Kgcm Max. Holding Torque
- Highly cost effective



2 Phase Stepper Motor

Type	Motor Size (NEMA)	Motor Model	Max. Holding Torque (kgcm)	Rotor Inertia (gcm ²)	Step Angle Half/Full	Phase Current (Amps)	Voltage (Vdc)	Phase Resistance (Ohms)	Phase Inductance (mH@1KHz)	Motor Weight (kg)
STANDARD (PS Series)	17	PS 443-01A (B)	1.1	17	1.8°/0.9°	0.95	4.0	4.2	3.1	0.20
		PS 444-02A (B)	1.6	25	1.8°/0.9°	0.80	6.0	7.5	3.2	0.22
		PS 445-01A (B)	2.2	36	1.8°/0.9°	1.20	4.0	3.3	3.3	0.26
	23	PS 464-01A (B)	2.9	60	1.8°/0.9°	1.10	4.0	3.6	4.0	0.34
		PS 466-01A (B)	6.0	125	1.8°/0.9°	1.20	6.0	5.0	9.0	0.55
		PS 468-21A (B)	9.0	220	1.8°/0.9°	1.50	5.4	3.6	7.5	0.85
		PS 4610-01A (B)	10.8	350	1.8°/0.9°	1.88	6.0	3.2	8.0	1.40
	34	PS 496-02A (B)	12.5	560	1.8°/0.9°	1.25	5.5	4.4	16	1.45
		PS 499-02A (B)	22.0	1100	1.8°/0.9°	2.00	6.0	3.0	16	2.16
		PS 4913-02A (B)	35.0	1800	1.8°/0.9°	1.80	12.0	6.7	40	3.60
		PS 496M-02A (B)	12.5	560	0.9°/0.45°	1.25	5.5	4.4	16	1.45
		PS 499M-02A (B)	22.0	1100	0.9°/0.45°	2.00	6.0	3.0	16	2.60
	PS 4913M-02A (B)	35.0	1800	0.9°/0.45°	1.80	12.0	6.7	40	3.60	
HI-TORQUE (PF Series)	17	PF 445-01 A (B)	3.2	68	1.8°/0.9°	1.2	4.0	3.3	2.8	0.35
	23	PF 464-02A (B)	4.3	120	1.8°/0.9°	2.0	2.8	1.4	1.5	0.47
		PF 466-02A (B)	8.5	280	1.8°/0.9°	2.0	3.6	1.8	3.0	0.70
		PF 468-02A (B)	13.5	480	1.8°/0.9°	2.0	4.5	2.25	3.8	1.00
	34	PF 496-01A (B)	20.0	1400	1.8°/0.9°	2.0	4.4	2.2	10.5	1.75
		PF 499-01A (B)	44.0	2700	1.8°/0.9°	2.0	6.4	3.2	20	2.80
		PF 4913-01A (B)	66.0	4000	1.8°/0.9°	2.0	7.6	3.8	19.2	3.93

(A) after the unit # denotes single shaft configuration. (B) after the unit # denotes thru-shaft configuration.

Other Specifications

Electrical Specifications

Dielectric Strength	No abnormality detected after the application of 0.5KV at 50 Hz between motor windings and frame for duration of one minute
Insulation Resistance	100 Mohms or better with 500V potential applied between motor windings and frame at normal ambient temperature and humidity
Insulation Class	Class B
Operating Environment Temperature	0°C ~ + 40°C

Mechanical Specifications

Shaft Radial Play	NEMA 17 motor	0.0006 in. (max) at 15.87 oz. force 0.015mm (max) at 450g
	NEMA 23/34 motor	0.0008 in. (max) at 15.87 oz. force 0.020mm (max) at 450g
Shaft Axial Play	NEMA 17 motor	0.0008 in. (max) at 15.87 oz. force 0.020mm (max) at 450g
	NEMA 23/34 motor	0.00031 in. (max) at 15.87 oz. force 0.080mm (max) at 450g
Shaft Runout	0.0005 T.I.R. (inches) (at shaft end)	
Step Angle Accuracy	± 5% (max)	
Bearing Type	ABEC 5P Deep Groove Permanently Sealed & Lubricated	

Applicable Driver Range

The above motors can be used on the following MYCOM stepping drivers. Selection is generally based on applicable speed range and supply input as indicated below :-

Low Speed Range (24Vdc supply input)

UPS200
IMS200 (New)
INS200 (New NanoDrive)
SND100 (New NanoDrive)

Standard Speed Range (110Vac supply input)

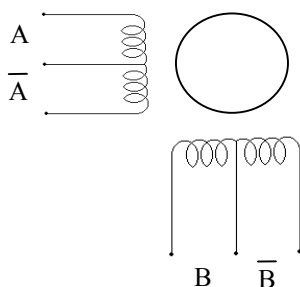
SD 45-230
IMS20-210 (New)
INS20-210 (New NanoDrive)

Standard Speed Range (220Vac supply input)

IMS21-220 (New)

2 Phase Motor Connection Diagram

Motor Colour Code :



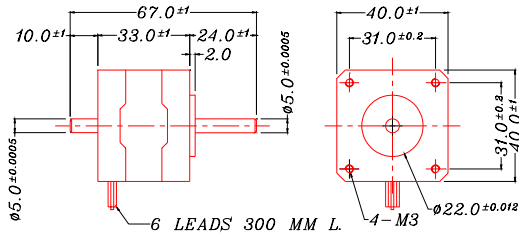
	PS44x	PS46x/PS49x	PF 44x	PF 46x	PF 49x
A	Red	Red	Red	Red	Red
/A	White	Red/White	Blue	Red/White	Blue
B	Yellow	Green	Green	Green	Green
/B	Blue	Green/White	Black	Green/White	Black
A COM	Brown	Black	White	Black	White
B COM	Brown	White	Yellow	White	Yellow

* NC : no connection, tape and isolate individually

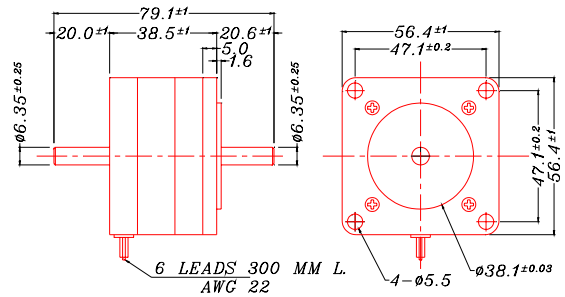
2 Phase Stepper Motor Dimensions – PS44x / PS46x

All dimensions are in millimeters. To obtain inch equivalent, divide given number by 25.4

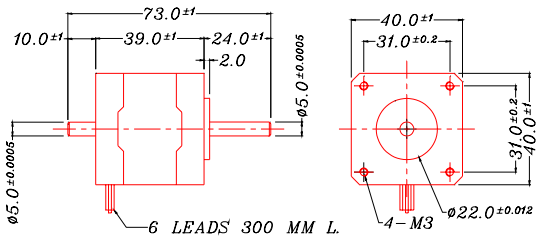
PS443-01B



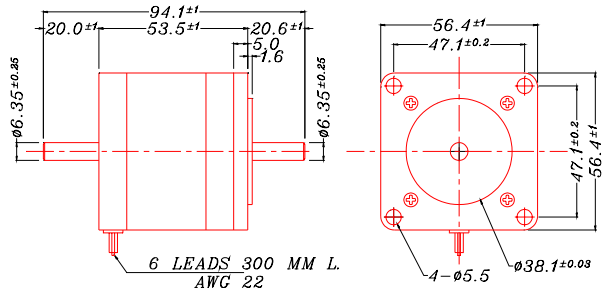
PS464-01B



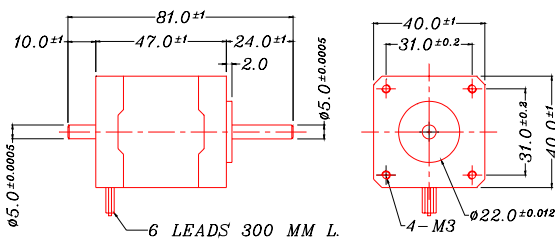
PS444-02B



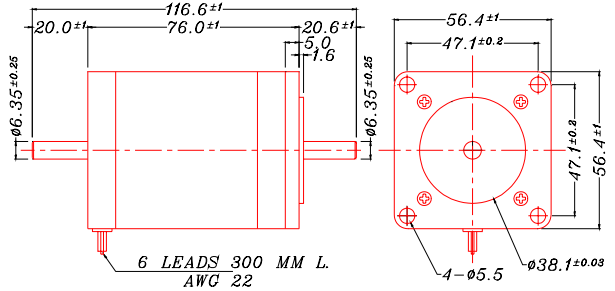
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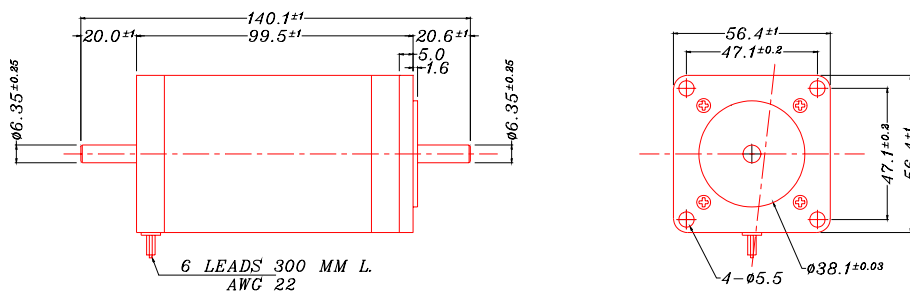
PS445-01B



PS468-21B



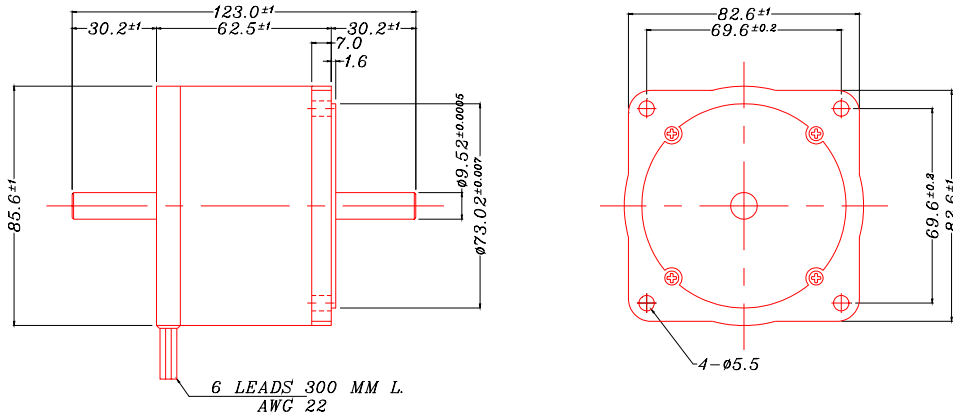
PS4610-01B



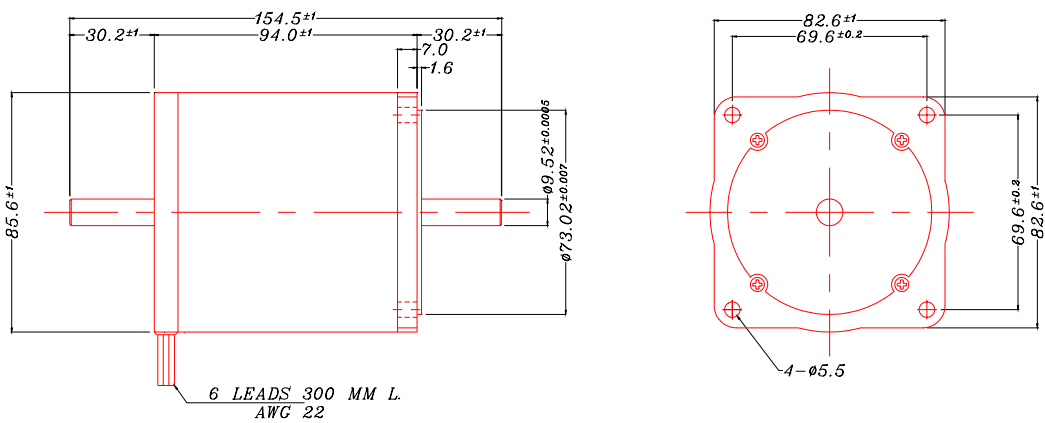
2 Phase Stepper Motor Dimensions – PS49x

All dimensions are in millimeters. To obtain inch equivalent, divide given number by 25.4

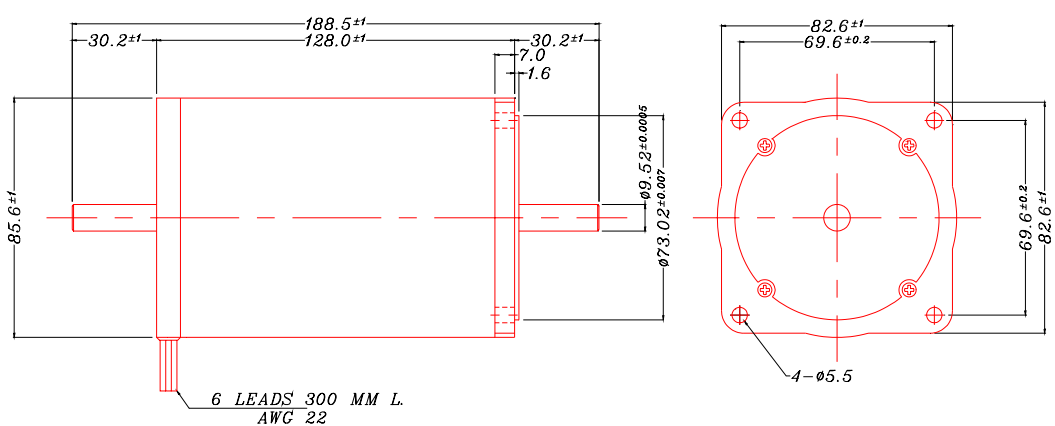
PS496-02B / PS 496M-02B



PS499-02B / PS499M-02B



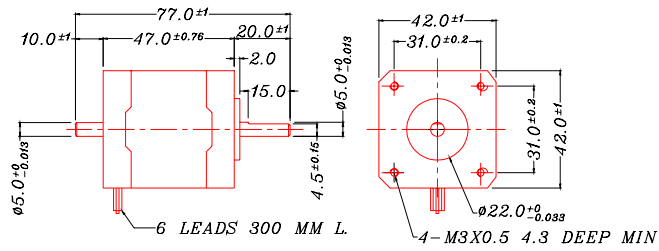
PS4913-02B / PS 4913M-02B



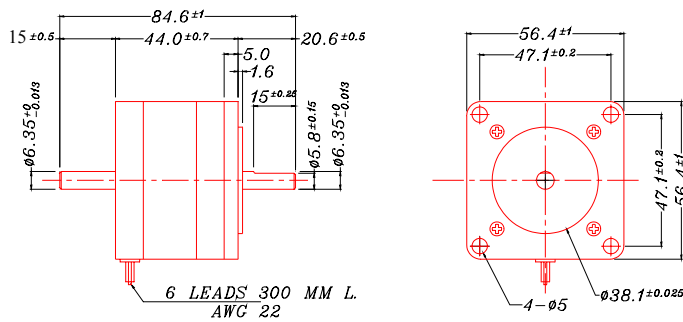
2 Phase Stepper Motor Dimensions – PF44x / PF46x

All dimensions are in millimeters. To obtain inch equivalent, divide given number by 25.4

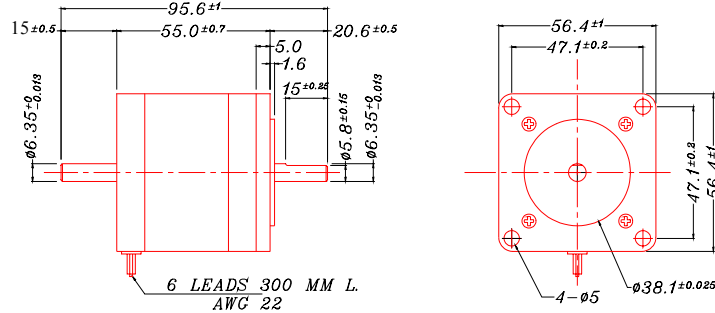
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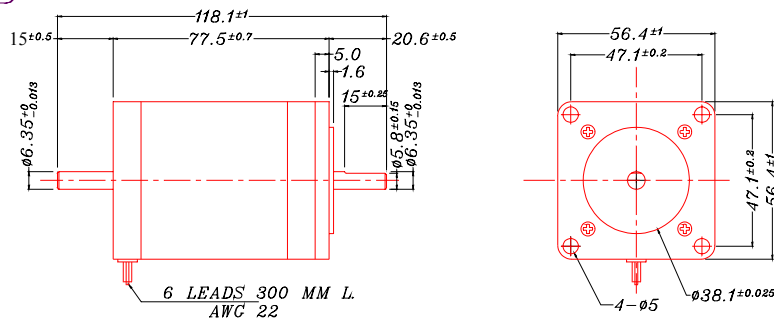
PF464-02B



PF466-02B



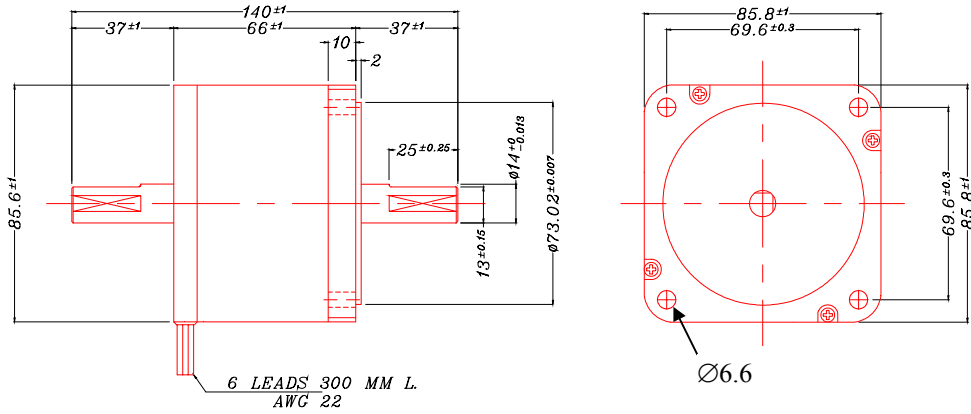
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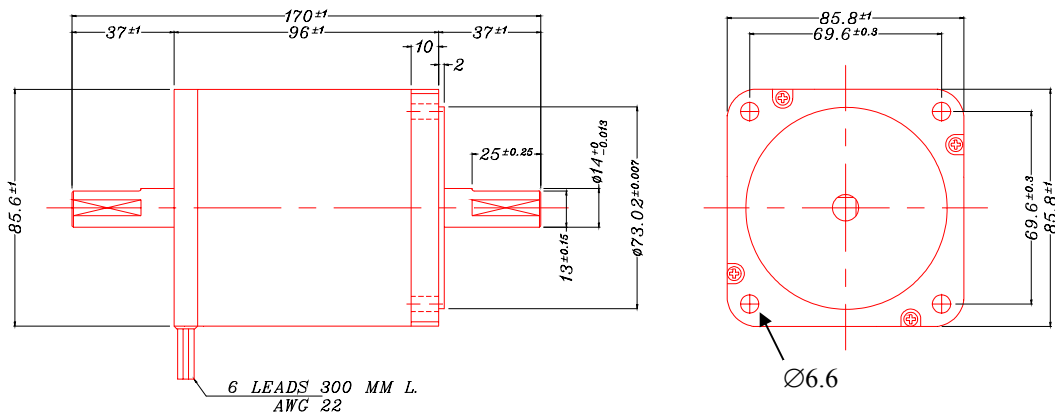
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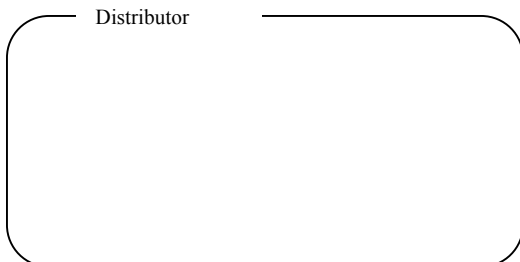
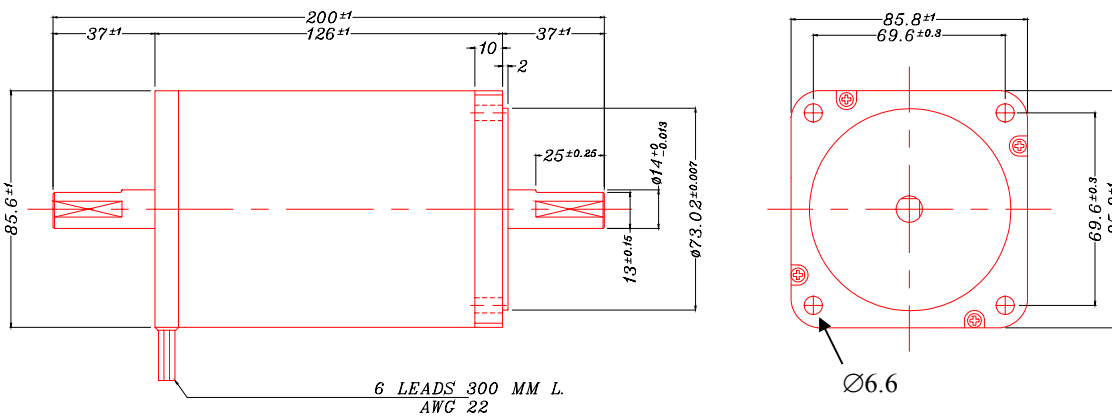
PF496-01B



PF499-01B



PF4913-01B



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