

5 Phase Stepper Motor (PS Series)

- Five leads for easy wiring configurations
- Wide selection range to suit various applications
- 0.3~63 Kgcm Max. Holding Torque
- Compact size for high Torque performance
- Highly cost effective



5 Phase Stepper Motor

Type	Motor Size (mm)	Motor Model	Max. Holding Torque (kgcm)	Rotor Inertia (gcm ²)	Basic Step Angle***	Phase Current (Amps)	Motor Weight (kg)
STANDARD (PS Series)	42	PS 533 MA (B)	0.75	9	0.36°	0.75	0.11
		PS 534 MA (B)	1.1	24	0.36°	0.75	0.2
		PS 535 MA (B)	1.4	80	0.36°	0.75	0.32
	60	PS 564A (B)	2.3	100	0.72°	0.75	0.5
		PS 566A (B)	3.7	200	0.72°	0.75	0.75
		PS 569A (B)	7.6	400	0.72°	1.4	1.3
	85	PS 596A (B)	11.8	700	0.72°	1.4	1.5
		PS 599A (B)	20.9	1200	0.72°	1.4	2.5
		PS 5913A (B)	38.0	1800	0.72°	1.4	3.5
BRAKE TYPE (PS Series)	60	PS 566AM	3.7	200	0.72°	0.75	0.75
		PS 569AM	7.6	400	0.72°	1.4	1.3
	85	PS 596AM	11.8	700	0.72°	1.4	1.5
		PS 599AM	20.9	1200	0.72°	1.4	2.5
		PS 5913AM	38.0	1800	0.72°	1.4	3.5

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

Other Specifications

Motor 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 ~ + 50°C

Motor Mechanical Specifications

Shaft Radial Play	0.025 mm (max) at load 0.5 Kg
Shaft Axial Play	0.075mm (max) at load 1 Kg
Step Angle Accuracy	± 5 min (PS Series)

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)

UPS503 series
IMS500 series(New)

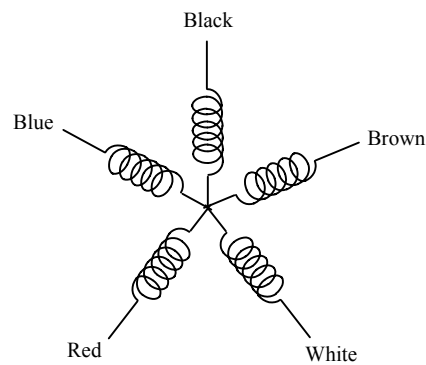
Standard Speed Range (110Vac supply input)

UPS50 series
PSU50 series
IMS50-x1x series (New)
INS50-x1x series (New NanoDrive)

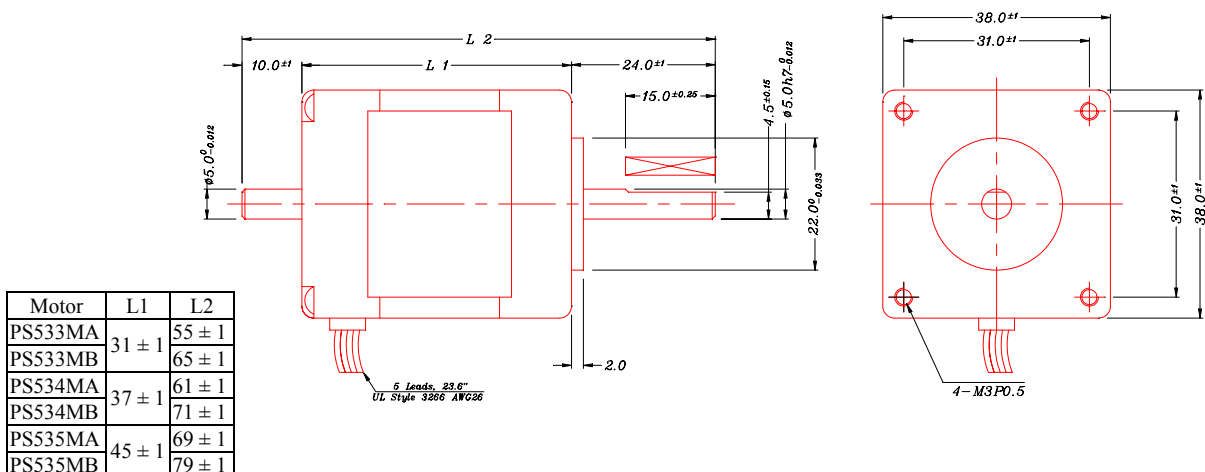
Standard Speed Range (220Vac supply input)

IMS50-x2x series (New)
INS50-x2x series (New NanoDrive)

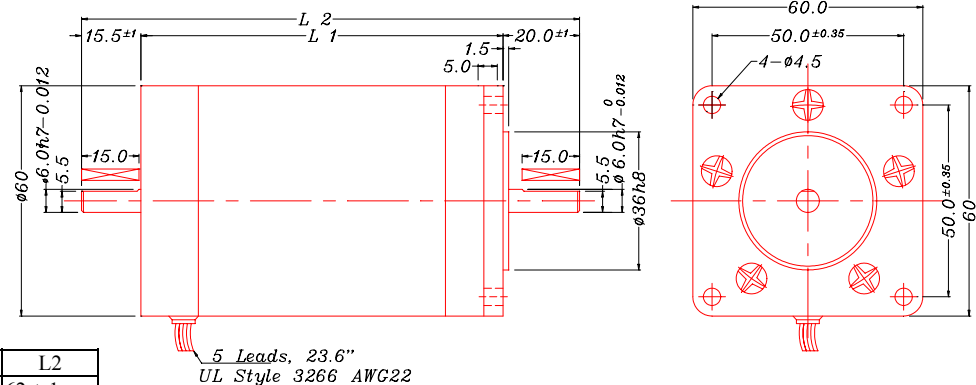
5 Phase Motor Connection Diagram



5 Phase Stepper Motor Dimensions – PS 533 M / PS 534 M / PS 535 M

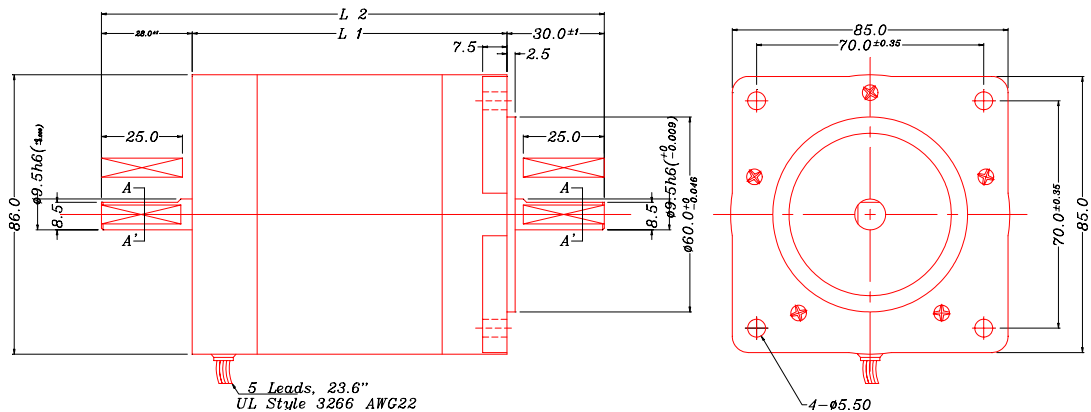


5 Phase Stepper Motor Dimensions – PS 564 / PS 566 / PS 569



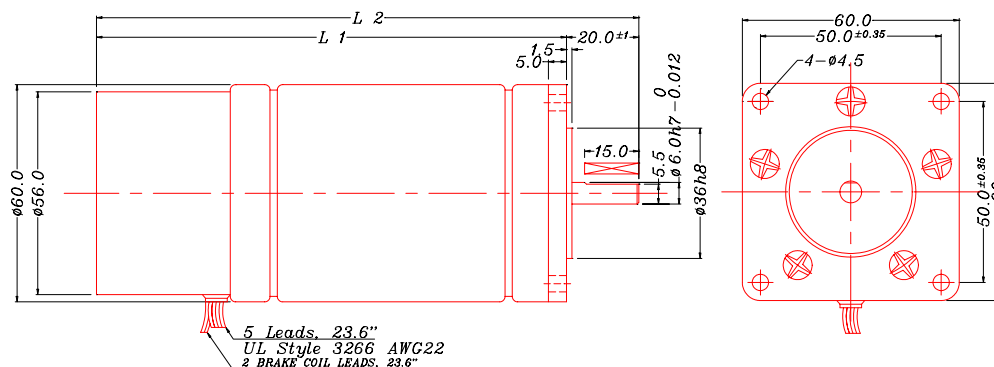
Motor	L1	L2
PS564A	42 ± 1	62 ± 1
PS564B		77.5 ± 1
PS566A	59 ± 1	79 ± 1
PS566B		94.5 ± 1
PS569A	94.5 ± 1	114.5 ± 1
PS569B		130 ± 1

5 Phase Stepper Motor Dimensions – PS 596 / PS 599 / PS 5913



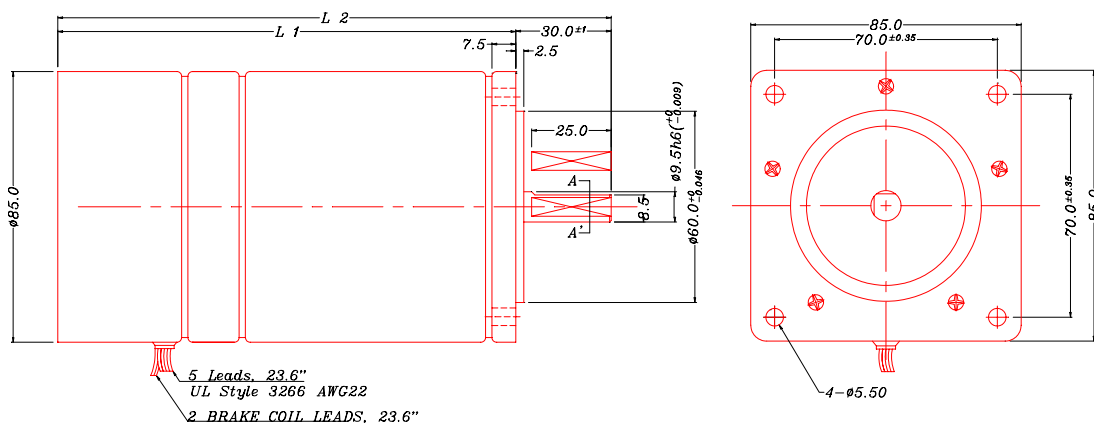
Motor	L1	L2
PS596A	64 ± 1	94 ± 1
PS596B		122 ± 1
PS599A	97 ± 1	127 ± 1
PS599B		155 ± 1
PS5913A	130 ± 1	160 ± 1
PS5913B		188 ± 1

Brake Type Stepper Motor Dimensions – PS 56xAM



Motor	L1	L2
PS566AM	95 ± 1	115 ± 2
PS569AM	130 ± 1	150 ± 2

Brake Type Stepper Motor Dimensions – PS 59xAM



Motor	L1	L2
PS596AM	111 ± 1	141 ± 2
PS599AM	144 ± 1	174 ± 2
PS5913AM	177 ± 1	207 ± 2

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