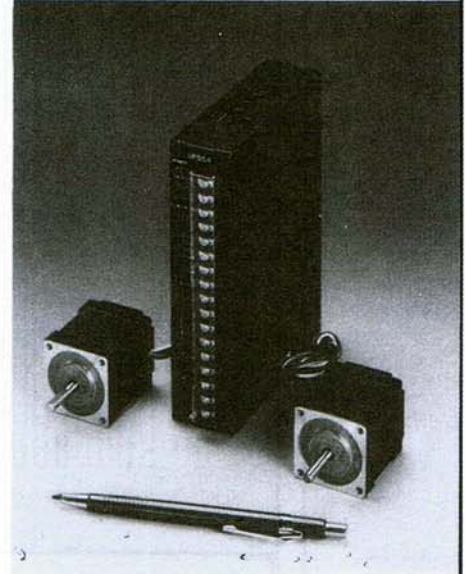


UPS 54 Series Standard/High Speed Type 5-Phase, 5-Lead Stepping Motor and Driver Units*

- High resolution.
 - 0.36°/half step (1000 steps/rev)
 - 0.72°/full step (500 steps/rev)
- High speed output in a compact package.
- Extremely smooth operation.
 - Virtually no low rpm resonance problem.
- Motor and driver are a matched pair.
 - No current adjustment needed.
- Easy hookup with only 5 leads.
- Highly cost effective.



* Protected by US/Intl. Patents

UPS 54 Series

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

MOTOR SIZE (mm)	MOTOR AND DRIVER COMBINATION UNIT #	MAX. HOLDING TORQUE oz-in (kg-cm)	ROTOR INERTIA oz-in ² (g cm ²)	STEP ANGLE FULL/HALF	PHASE CURRENT (A)	MOTOR WEIGHT oz (kg)	DRIVER TYPE	MOTOR TYPE
1.3 (33)	UPS54-533A (B)	3.61 (0.26)	0.05 (9)	0.72°/0.36°	0.75	3.82 (0.11)	UPS54-030	PS 533A (B)
1.65 (42)	UPS54-544A (B)	15.28 (1.1)	0.12 (24)	0.72°/0.36°	0.75	6.94 (0.19)	UPS54-030	PS 544A (B)
1.97 (50)	UPS54-554A (B)	31.95 (2.3)	0.4 (80)	0.72°/0.36°	0.75	11.1 (0.32)	UPS54-030	PS 554A (B)

Other Specifications

Motor Section

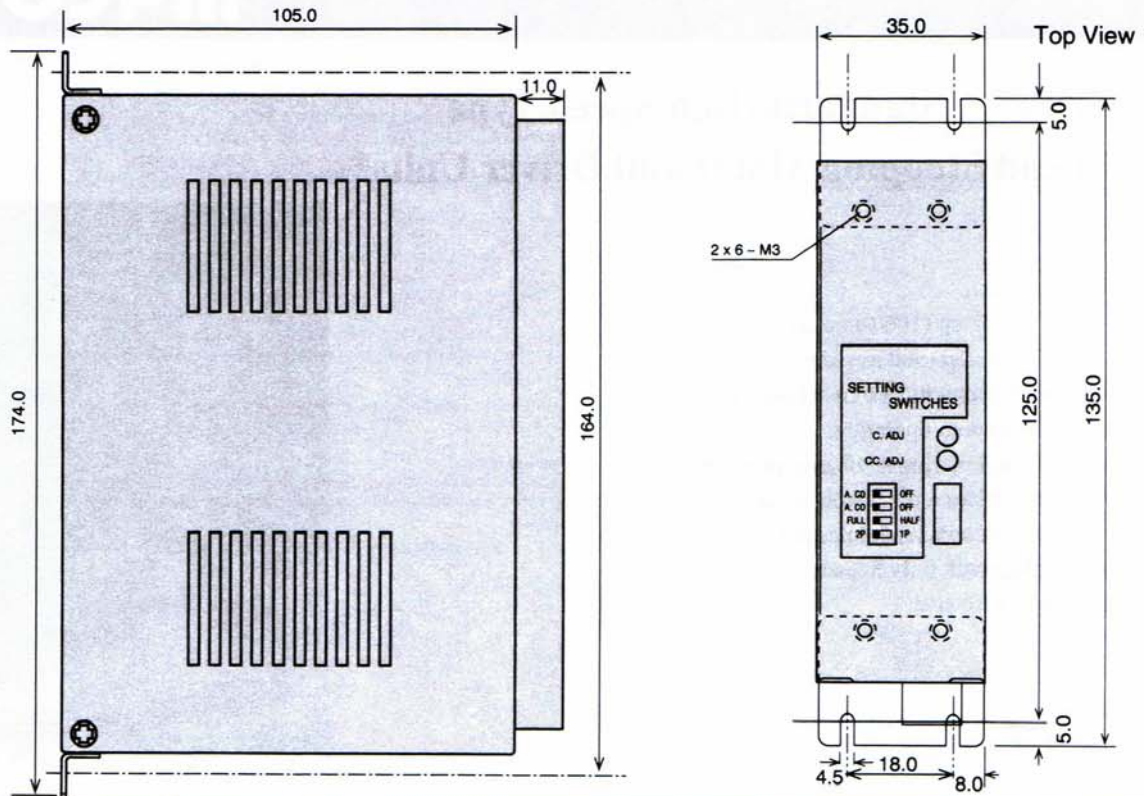
Step Angle Accuracy	± 3 min.
Shaft Radial Play	0.00098 in. max. / 1.1 lbs load
Shaft Axial Play	0.00295 in. max. / 2.2 lbs load
Dielectric Strength	No abnormality detected after the application of 0.5KV at 50Hz between motor windings and frame for duration of one minute.
Insulation Class	Class B
Insulation Resistance	100M ohms or better with 500V potential applied between motor windings and frame at normal ambient temperature and humidity.
Operating Environment Temperature	0°C ~ +50°C

Driver Section

UPS54-030	
Drive Type	Star Bi-Polar, Constant Current Chopper
Power Requirements	85V ~ 132V AC 50 ~ 60 Hz
Power Consumption	1.5 A Max.
Built in Functions	Auto current down at stand still. Current off. Excitation timing signal output.
Input Pulse Types	STEP and DIRECTION or CW/CCW pulse (selectable). All opto-isolated. Voltage H = 4 ~ 5V, L = 0 ~ 0.5V. Resistance 330 ohms.
Dielectric Strength	No abnormality detected after the application of AC 1KV between case and power input terminals, case and signal I/O terminals, signal I/O terminals and power input terminals for duration of one minute.
Insulation Resistance	100M ohms or better with 500V potential applied between case and power input terminals and signal I/O terminals.
Operating Environment Temperature	0°C ~ +40°C

UPS54 Series Driver External Dimensions

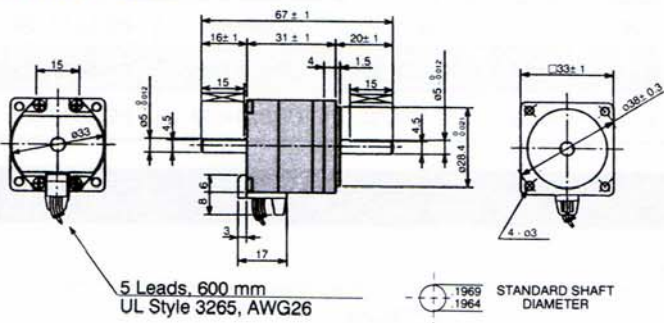
Unit: (mm)



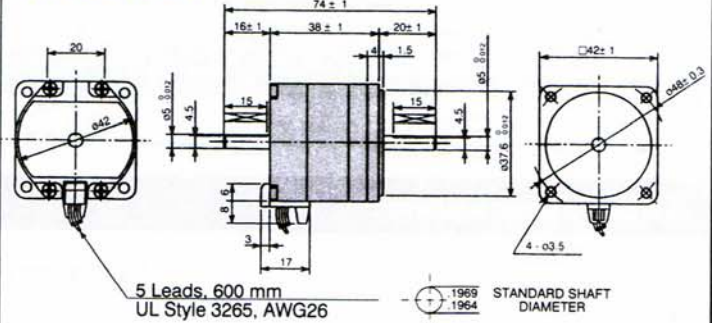
UPS54 Series Motor Dimensions

All dimensions are shown in millimeters. To obtain inch equivalent, divide given number by 25.4 (ex. 85mm ÷ 25.4 = 3.346 in.)

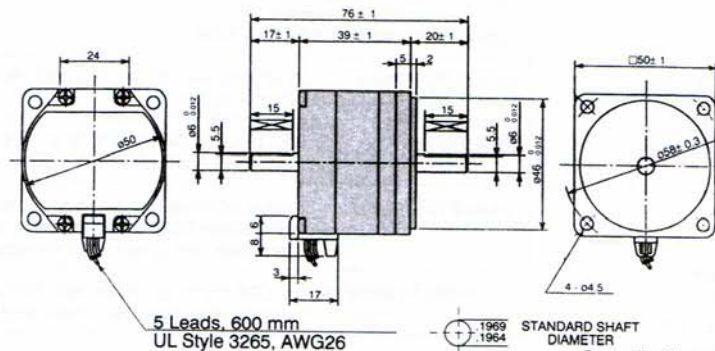
UPS54 - 533



UPS54 - 544



UPS54 - 554



Specifications are subject to change without notice.

Standard shafts available for all 5-phase motors.