



1.8° Size 86mm Hybrid Stepping Motor

General Specification for Hybrid Stepping Motor

Item	Specifications
Step Angle	1.8°
Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80°C Max.(rated current,2 phase on)
Ambient Temperature	-20°C~+50°C
Insulation Resistance	100M Ω Min. ,500VDC
Dielectric Strength	500VAC for one minute
Shaft Radial Play	0.02Max. (450 g-load)
Shaft Axial Play	0.08Max. (450 g-load)
Max. radial force	220N (20mm from the flange)
Max. axial force	60N
Rotation	CW(See from Front Flange)

Size 86mm Hybrid Stepping Motor Specifications

Model No.		Rated Voltage	Current /Phase	Resistance /Phase	Inductance /Phase	Holding Torque	# of Leads	Rotor Inertia	Weight	Detent Torque	Length
Single Shaft	Double Shaft	V	A	Ω	mH	kg-cm		g-cm ²	kg	kg-cm	mm
SY86ST62-4506A	SY86ST62-4506B	1.8	4.5	0.4	1.4	13	6	560	1.5	0.8	62
SY86ST62-1256A	SY86ST62-1256B	5.5	1.25	4.4	14	13	6				
SY86ST62-1406A	SY86ST62-1406B	0.7	14	20	60	13	6				
SY86ST62-5904A	SY86ST62-5904B	1.33	5.9	0.23	1.5	18	4				
SY86ST94-4006A	SY86ST94-4006B	3.0	4.0	0.75	4.5	26	6	1100	2.6	2.4	94
SY86ST94-2006A	SY86ST94-2006B	6.0	2.0	3.0	18	26	6				
SY86ST94-1006A	SY86ST94-1006B	12	1	12	72	26	6				
SY86ST94-5604A	SY86ST94-5604B	2.1	5.6	0.38	3.9	35	4				
SY86ST134-6706A	SY86ST134-6706B	3.0	6.7	0.45	2	36	6	1800	3.6	3.6	134
SY86ST134-4006A	SY86ST134-4006B	5.0	4.0	1.25	6.6	36	6				
SY86ST134-1806A	SY86ST134-1806B	12	1.8	6.5	41	36	6				

Dimension