

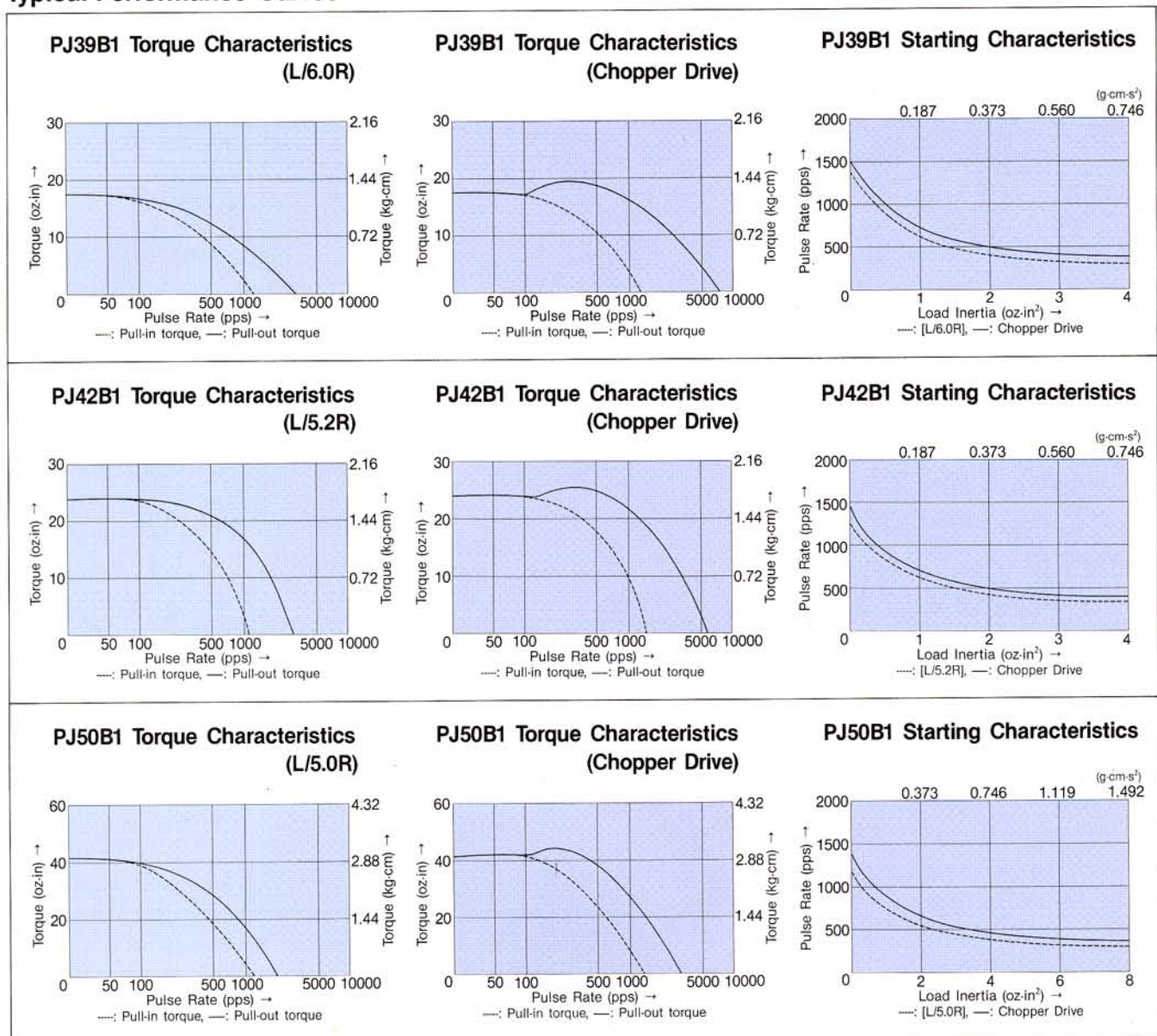
HB TYPE STEPPER MOTORS

PJ SERIES

Specifications

Items	Models	PJ39			PJ42			PJ50			PJ55		
		A1	B1	C1	A1	B1	C1	A1	B1	C1	A1	B1	C1
Excitation Mode		2-2											
Step Angle (°)		1.8											
Step Angle Tolerance (%)		±5											
Steps per Revolution		200											
DC Operating Voltage (V)		2	4	8	2.3	4.6	9.2	3	6	12	3.4	6.8	13.6
Operating Current (A/φ)		2	1	0.5	2	1	0.5	2	1	0.5	2	1	0.5
Winding Resistance (Ω/φ)		1	4	16	1.15	4.6	18.4	1.5	6	24	1.7	6.8	27.2
Winding Inductance (mH/φ)		0.6	2.0	8.9	0.6	2.8	12.4	1.3	5.6	19.5	1.7	7.6	27.6
Holding Torque (oz·in/kg·cm)		27.8/2			34.7/2.5			69.4/5			83.3/6		
Rotor Inertia (oz·in ² /g·cm·s ²)		29x10 ⁻² /5.4x10 ⁻²			33.3x10 ⁻² /6.2x10 ⁻²			56.4x10 ⁻² /10.5x10 ⁻²			70.3x10 ⁻² /13.1x10 ⁻²		
Ambient Temp. Range, Operating (°C)		-10 ~ +60											
Temperature Rise (°C)		70											
Weight (oz/g)		11.3/320			12/340			15.9/450			18.3/520		

Typical Performance Curves



HB TYPE STEPPER MOTORS

PJ SERIES

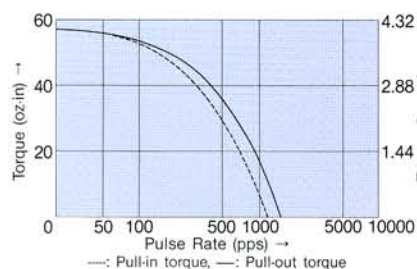
Specifications

Items	Models	PJ80	
		A1	B1
Excitation Mode		2-2	
Step Angle	(°)	1.8	
Step Angle Tolerance	(%)	± 5	
Steps per Revolution		200	
DC Operating Voltage	(V)	3.36	6.7
Operating Current	(A/φ)	2	1
Winding Resistance	(Ω/φ)	1.68	6.7
Winding Inductance	(mH/φ)	2.2	9.4
Holding Torque	(oz·in/kg·cm)	11.1/8	
Rotor Inertia	(oz·in ² /g·cm·s ²)	132.6x10 ⁻² /24.7x10 ⁻²	
Ambient Temp. Range, Operating	(°C)	- 10 ~ + 60	
Temperature Rise	(°C)	70	
Weight	(oz/g)	29.3/830	

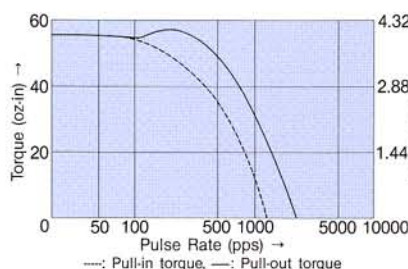


Typical Performance Curves

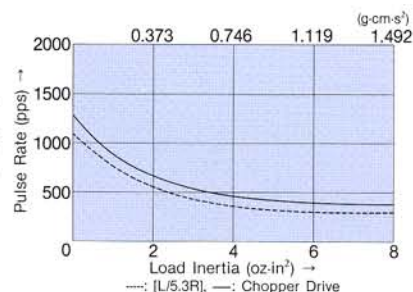
PJ55B1 Torque Characteristics (L/5.3R)



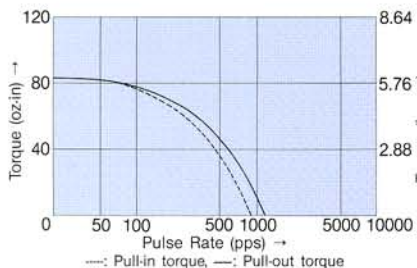
PJ55B1 Torque Characteristics (Chopper Drive)



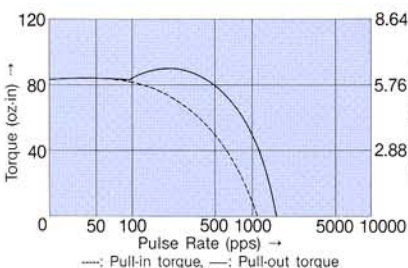
PJ55B1 Starting Characteristics



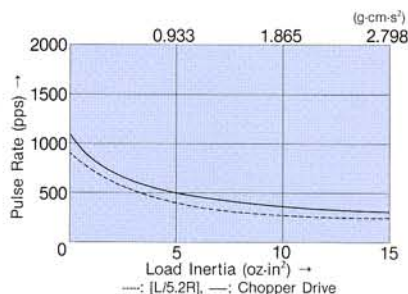
PJ80B1 Torque Characteristics (L/5.2R)



PJ80B1 Torque Characteristics (Chopper Drive)

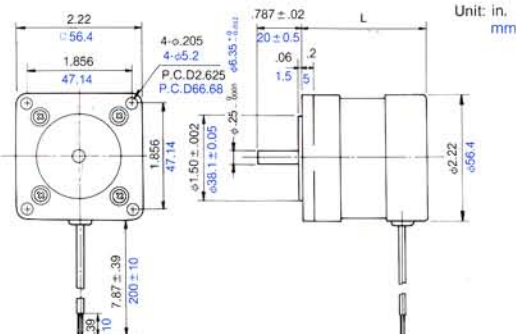


PJ80B1 Starting Characteristics



PJ SERIES

	L	
	in	mm
PJ39	1.54	39
PJ42	1.65	42
PJ50	1.97	50
PJ55	2.17	55
PJ80	3.15	80

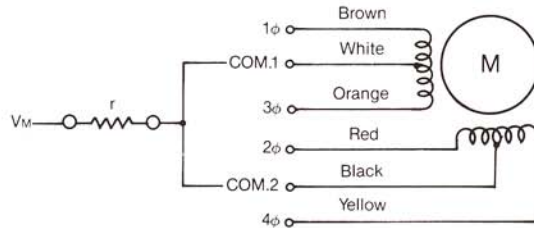


PH SERIES

	L	
	in	mm
PH42	1.65	42
PH55	2.17	55
PH80	3.15	80

Color codes of standard leads on 4-phase stepper motors

PH•PJ•PQ



Dimensions of PH series are same as those of PJ series in page 11.