

PHG42S/PTP36E Series

Hybrid Stepper Planetary Gearmotors

NEMA 17 (□42mm)
Hybrid Stepper Motor

Ø36mm Planetary Gearhead
Enhanced Type

Rated Admissible Torque
1.8 N.m ~ 6.0 N.m



Motor Specifications

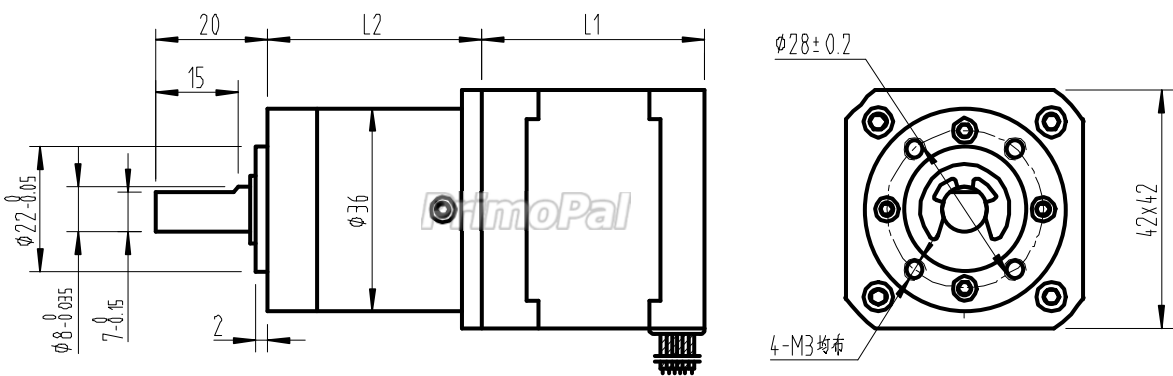
Model	Current	Resistance	Inductance	Holding Torque	Detent Torque	Rotor Inertia	Bi/Unipolar	Weight	Length (L1)	Applicable Ratio
	A/Ø	Ω/Ø	mH/Ø	N.cm	N.cm	g.cm ²	# of Leads	g	mm	≤
PHG42S28-406	0.6	8.0	10	12	1.2	30	Bi (4)	150	28	1:100
PHG42S34-401	1.3	2.4	2.8	28	1.6	34	Bi (4)	220	34	1:71
PHG42S34-402	1.7	1.2	1.8	28	1.6	34	Bi (4)	220	34	1:71
PHG42S34-630	0.4	30	18	21	1.6	34	Uni (6)	220	34	1:100

Gearhead Specifications

Model	PTP36ES60-□□□-D8F20 (Output shaft: Ø8mm, Len/20mm, Flat 1X15mm)												
Reduction Ratio	3.7	5.2	14	19	27	51	71	100	139	189	264	369	
Exact Reduction Ratio	3.71	5.18	13.76	19.22	26.83	51.06	71.30	99.55	138.99	189.45	264.52	369.32	
Transmission Stage	Stage 1		Stage 2			Stage 3				Stage 4			
Transmission Efficiency	90%		81%			73%				66%			
Rated Admissible Torque	1.8N.m		3.0N.m			4.8N.m				6.0N.m			
Max Momentary Admissible Torque	5.4N.m		9.0N.m			14.4N.m				18.0N.m			
Gearhead's Housing Length (L2)	31.0mm		38.5mm			48.2mm				55.4mm			
Weight	195g		210g			290g				315g			
Housing Material	Metal												
Bearing at Output	Sleeve Bearings												
Backlash	≤ 1.5°, at no-load												
Max Radial Load	35N (10 mm from the flange)												
Max Axial Load	25N												
Shaft Radial Play	≤ 0.04mm												
Shaft Axial Play	≤ 0.3mm												

Note: Please specify the required gear ratio with the blank box when ordering models.

Mechanical Dimension



Wiring Diagram

