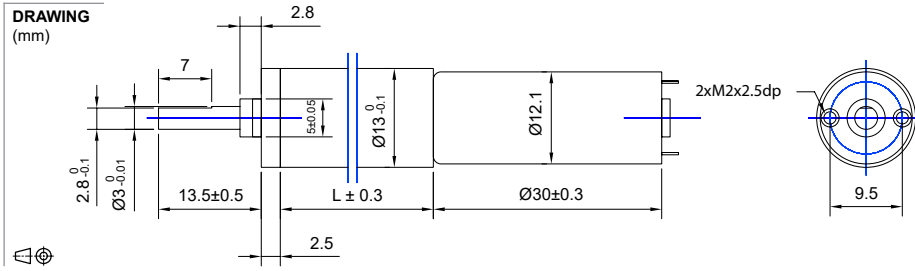
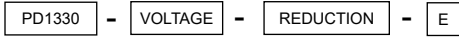


# PD1330 / Ø 13mm / 0.6W / 0.6W



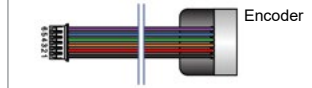
## MODEL NO. DESIGNATION



Example: PD1330-2.4-4-E

E = Encoder

## ADDITIONAL



GEAR MOTOR DATA						
Reduction	4:1	16:1	64:1	256:1	1024:1	4096:1
Nominal torque 2.4 V (mNm) *	2.0	6.9	24.5	82.4	196	196
Nominal speed 2.4 V (rpm) *	2400	600	150	38	10	2.8
Nominal torque 3 V (mNm) *	1.9	6.4	22.6	76.5	196	196
Nominal speed 3 V (rpm) *	2400	610	150	39	10	2.8
Length (mm)	40.2	43.5	46.8	50.1	53.4	56.7
Weight (g)	24	26	28	30	32	34

\* Nominal speed and nominal torque have a tolerance of  $\pm 15\%$

GEAR HEAD DATA						
Reduction	4:1	16:1	64:1	256:1	1024:1	4096:1
Max. continuous torque (mNm)	78	118	157	177	196	196
Intermittently permissible torque (mNm)	235	353	471	530	588	588
Efficiency %	85	75	65	55	45	40
Length L (mm)	10.2	13.5	16.8	20.1	23.4	26.7
Weight (g)	10.7	12.8	14.9	17	19.1	21.2

GEAR MOTOR FEATURES AND STANDARD DATA		
	STANDARD	CUSTOMIZATION OPTIONS
Type	Planetary brush dc gear motor	
Motor type	Iron core, brush commutation	Winding parameters
Motor brush type	Carbon brushes	
Motor terminals	Soldering ears	Wiring harnesses, cables and connectors
EMC filter	No	
Gears	Straight teeth metal gears produced by	Plastic
Motor pinion gear	Bakelite	Metal
Bearing	Sleeve bearing	
Shaft	Hardened stainless steel	Dimensions
Encoder option	Magetic encoder (to order as option)	Through shaft dimensions and screw holes
Operating temperature	-10-...+60 °C	- 40-...+60 °C
Backlash no load	$\leq 3^\circ$	
Radial load 8 mm from gear flange	$\leq 4.9$ N	
Shaft axial load	$\leq 4.9$ N	
Shaft press fit force	$\leq 14.7$ N	
Radial play	$\leq 0.08$ mm	
Thrust play	$\leq 0.2$ mm	
Manufacturing quality standards	ISO 9001	
RoHS compliance	Yes	

MOTOR DATA		
Nominal voltage (V)	2.4	3
No load speed (rpm)	12500	12500
No load current (mA)	$\leq 130$	$\leq 80$
Nominal speed (rpm)	10000	10000
Nominal torque (mNm)	0.59	0.55
Nominal current (mA)	$\leq 450$	$\leq 340$
Stall torque (mNm)	2.7	2.9
Starting current (A)	1.5	1.5
Output (W)	0.6	0.6
Length (mm)	30	30
Weight (g)	13	13