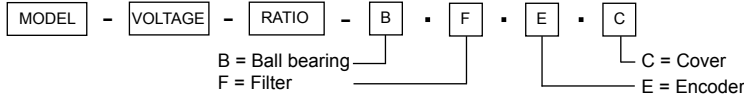


## PD2232 GEARED MOTOR SERIES 12 AND 24V TYPE

Brush commutator planetary dc gear motors with strong metal gears of straight type manufactured by milling machine process. Only the motor shaft gear pinion is made of bakelite for noise reduction purpose. The output shaft is made in hardened stainless steel and has a ball bearing output as standard. This is marked as a B in the part description. For electric noise suppression the dc motors have as standard and if available integral filters as either with varistor and / or capacitor. This is marked as a F in the part description. There are options for encoder assembly and special adaptations. All motors are produced under strict high quality production standards and are tested and inspected prior to delivery.

### MODEL NO. DESIGNATIONS



Example: PD3046-12-14-BFEC

### GEAR HEAD DATA

- Ball bearing
- Planetary gear
- Backlash at no load  $\leq 2.5^\circ$
- Radial (8 mm from flange) load  $\leq 1\text{kg}$
- Axial load  $\leq 0.6\text{kg}$
- Press fit max.  $\leq 5\text{kg}$
- Radial play  $\leq 0.04\text{mm}$
- Thrust play  $\leq 0.2\text{mm}$

### ENCODER VERSION

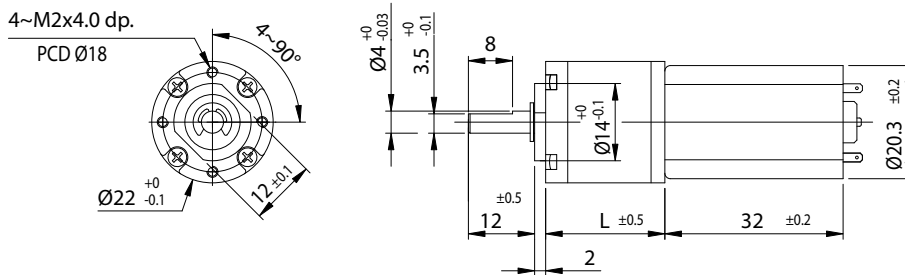
SEE SEPARATE DATA SHEET



### GEARED MOTOR DATA - 24V

Reduction	4:1	14:1	16:1	19:1	53:1	62:1	72:1	84:1	104:1	198:1	231:1	270:1	316:1	370:1	455:1	742:1	1014:1	1249:1	1621:1	1996:1
Number of stages	1	2	2	2	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5
Rated torque (g-cm)	77	215	250	295	695	810	950	1100	1370	2100	2500	2500	2500	2500	2500	3000	3000	3000	3000	3000
Rated speed (rpm)	1650	518	450	384	140	120	103	88	71	37	32	28	23.5	21	17.5	10.5	8.0	6.6	5.0	4.2
Length L1 (mm)	14.40	18.05	18.05	18.05	21.70	21.70	21.70	21.70	21.70	25.35	25.35	25.35	25.35	25.35	25.35	29.00	29.00	29.00	29.00	29.00
Weight (g)	58	62	62	62	66	66	66	66	66	71	71	71	71	71	71	75	75	75	75	75

### APPEARANCE SIZE



### MOTOR FEATURES

- Precious metal brush commutator dc motors
- Gears in steel manufactured by milling process
- Ball bearing supported gear shaft if (B)
- Integrated electric noise suppression filter if (F)
- Custom adaptations are possible
- Encoder version is available
- Operating temp. range -10...+60 °C

### MOTOR DATA

Rated volt (V)	Rated torque (g-cm)	Rated speed (rpm)	Rated Current (mA)	No load speed (rpm)	No load current (mA)	Rated output (W)
12	22	6700	$\leq 200$	8000	$\leq 70$	1.5
24	22	7400	$\leq 110$	9000	$\leq 40$	1.7

