

## PC2230 GEARED CORELESS DC MOTORS SERIES

Brush coreless planetary dc gear motors with ironless rotor. Excellent servo features and ideal for precision control applications. High efficiency, rapid dynamic response, low detent torque, low noise, no cogging and high power density. Gear box 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.



TRANSMOTEC SWEDEN AB

### MODEL NO. DESIGNATIONS



Example: PC2230-9-4

### GEAR DATA

- Gears in steel manufactured by milling process
- Planetary gear
- Ball bearing shaft
- Backlash at no load  $\leq 2.5^\circ$
- Radial (8mm from flange) load  $\leq 1\text{kg}$
- Axial load  $\leq 0.6\text{kg}$
- Radial play  $\leq 0.04\text{mm}$
- Thrust play  $\leq 0.2\text{mm}$

### GEARED MOTOR DATA

Ratio	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 (mNm)	16	50	58	68	163	191	222	259	321	509	593	694	812	950	1169	1906	2084	2567	3331	4102
Rated speed (rpm)	1483	424	371	312	112	96	82	71	57	30	26	22	19	16	13	8	5.85	4.75	3.66	2.97
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)	71	75	75	75	79	79	79	79	79	84	84	84	84	84	84	88	88	88	88	88

### MOTOR DATA

Rated volt (V)	Rated torque (mNm)	Rated speed (rpm)	Rated Current (mA)	No load speed (rpm)	No load current (mA)	Rated input (W)
9	5.14	5930	470	7810	13	3.2
24	4.51	6195	164	8260	6	2.9

### MOTOR FEATURES

- Coreless DC motor
- Excellent servo features
- Rapid response
- High power density
- High efficiency
- Long life time
- Low detent torque
- No cogging
- Low noise
- Operating temp. range  $-10\text{..}+65^\circ\text{C}$
- Customizations are welcome

### APPEARANCE SIZE

