

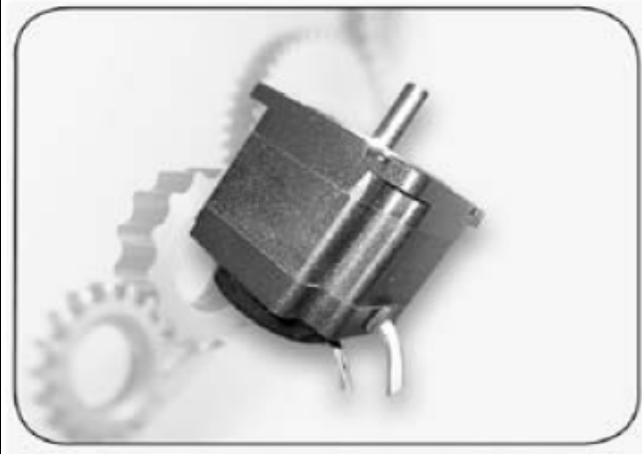
86mm Brushless DC Motor



Specifications:

General Specifications

Number of phases	3
Number of poles	8
Hall-Effect Angle	120 degree electrical angle
Shaft Run-out	0.05mm
Shaft Radial Play	0.02mm @ 450g
Shaft End Play	0.08mm @ 450g
Max. Radial Load	220N @ 20mm from the flange
Max. Axial Load	60N
Winding Insulation	Class B
Dielectric strength	500VDC for one minute
Insulation resistance	100M Ω Min., 500 VDC



Model		DN8658-48-110	DN8671-48-220	DN8698-48-440	DN86125-48-660	
Rated Voltage	V	48	48	48	48	
Rated Torque	Nm	0.35	0.7	1.4	2.1	
Peak Torque (10% duty cycle)	Nm	1.05	2.1	4.2	6.3	
Rated Speed	RPM	3000	3000	3000	3000	
Rated Output power	W	110	220	440	660	
Rotor Inertia	Kg-m ²	400	800	1600	2400	
Torque constant	mNm/A	0.10	0.1100	0.13	0.11	
Resistance (Line to Line)	Ω	1.1	0.36	0.20	0.16	
Inductance (Line to Line)	mH	2.2	1.05	0.48	0.3	
Back EMF @ Rated Speed	V/KRPM	10.5	11.5	13.5	11.5	
Peek Current	A	11.00	19.00	33.00	55.00	
Body Length (Dim. "L")	mm	58	71	98	125	
Motor Weight	Kg	1.5	1.85	2.6	4	

OUTLINE DRAWING

(DIMENSIONS: mm)

