



Brushless Servo Motors

ULTRA COMPACT SERVO MOTORS

- Up to 30% increased power density
- Up to 20% reduced dimensions
- Sophisticated design, intended for extreme torque stability and precision



TECHNICAL DATA

Motor Type B56.I5U 5.5 Nm - 6000 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B56.I5U
Stall torque (Deltat=105°C) Mo Nm	5.5
Rated speed n rpm	6000
Rated power P_n kW	2.0
Rated torque (Deltat=105°C) Mn Nm	3.2
Peak torque M_{pk} Nm	18.7
Max speed n_{max} rpm	6600
Moment of inertia J 10?? Kgm²	1.8
Thermal time constant T_{th} min	22
Voltage constant k_e V_s	0.42
Torque constant k_t Nm/A	0.73
Resistance phase to phase (20°C) R_w ?	1.06
Inductance phase to phase L_w mH	5.70
B.E.M.F. @ rated speed E_n Vrms	264

Stall current I_o Arms	7.6
Rated current I_n Arms	4.4
Peak current I_{pk} Arms	34.7
Connection type/size	7/1
Weight kg	5.5

Mechanical Data

Design	Aluminium
Degree of protection	IP 65
Bearings DE	6204
Bearings NDE	6003
Lubrication grease	low & high temperature grease
Regreasing device	permanent lubrication
Cooling	radiation and natural convection
Vibration Level	A (normal)

Electrical Data

Voltage	400V
Poles	10
Thermal protection threshold θ_{max} °C	140