



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 - 3000 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B56.I5U
Stall torque (Deltat=105°C) Mo Nm	5.5
Rated speed n rpm	3000
Rated power P _n kW	1.4
Rated torque (Deltat=105°C) Mn Nm	4.6
Peak torque M _{pk} Nm	18.7
Max speed n _{max} rpm	6600
Moment of inertia J 10?? Kgm ²	1.8
Thermal time constant T _{th} min	22
Voltage constant k _e V _s	0.84
Torque constant k _t Nm/A	1.45
Resistance phase to phase (20°C) R _w ?	4.25
Inductance phase to phase L _w mH	22.9
B.E.M.F. @ rated speed E _n Vrms	264

Stall current I_o Arms	3.8
Rated current I_n Arms	3.2
Peak current I_{pk} Arms	17.4
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