



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

B63.06U 8.3 Nm - 6000 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B63.06U
Stall torque (Deltat=105°C) Mo Nm	8.3
Rated speed n rpm	6000
Rated power P _n kW	3.2
Rated torque (Deltat=105°C) Mn Nm	5.1
Peak torque M _{pk} Nm	20.3
Max speed n _{max} rpm	6600
Moment of inertia J 10?? Kgm ²	2.6
Thermal time constant T _{th} min	10
Voltage constant k _e V _s	0.47
Torque constant k _t Nm/A	0.81
Resistance phase to phase (20°C) R _w ?	0.96
Inductance phase to phase L _w mH	7.50
B.E.M.F. @ rated speed E _n Vrms	296

Stall current I_o Arms	10.2
Rated current I_n Arms	6.2
Peak current I_{pk} Arms	37.2
Connection type/size	7/1
Weight kg	6.4

Mechanical Data

Design	Aluminium
Degree of protection	IP 65
Bearings DE	6204
Bearings NDE	6204
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