



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 B63.12U 11.7 Nm - 3000 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B63.12U
Stall torque (Deltat=105°C) Mo Nm	11.7
Rated speed n rpm	3000
Rated power P_n kW	2.6
Rated torque (Deltat=105°C) Mn Nm	8.3
Peak torque M_{pk} Nm	42.9
Max speed n_{max} rpm	6600
Moment of inertia J 10?? Kgm²	4.8
Thermal time constant T_{th} min	27
Voltage constant k_e V_s	0.94
Torque constant k_t Nm/A	1.63
Resistance phase to phase (20°C) R_w ?	1.66
Inductance phase to phase L_w mH	14.1
B.E.M.F. @ rated speed E_n Vrms	296

Stall current I_o Arms	7.2
Rated current I_n Arms	5.1
Peak current I_{pk} Arms	37.4
Connection type/size	7/1
Weight kg	9.2

Mechanical Data

Design	Aluminium
Degree of protection	IP 65
Bearings DE	6205
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