



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 - 6000 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B63.12U
Stall torque (Deltat=105°C) Mo Nm	11.7
Rated speed n rpm	6000
Rated power P _n kW	2.8
Rated torque (Deltat=105°C) Mn Nm	4.4
Peak torque M _{pk} Nm	42.9
Max speed n _{max} rpm	6600
Moment of inertia J 10?? Kgm ²	4.8
Thermal time constant T _{th} min	27
Voltage constant k _e V _s	0.47
Torque constant k _t Nm/A	0.81
Resistance phase to phase (20°C) R _w ?	0.43
Inductance phase to phase L _w mH	3.50
B.E.M.F. @ rated speed E _n Vrms	296

Stall current I_o Arms	14.4
Rated current I_n Arms	5.4
Peak current I_{pk} Arms	74.8
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