



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.G5U 3.5 Nm - 6000 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B56.G5U
Stall torque (Deltat=105°C) Mo Nm	3.5
Rated speed n rpm	6000
Rated power P _n kW	1.6
Rated torque (Deltat=105°C) Mn Nm	2.6
Peak torque M _{pk} Nm	11.3
Max speed n _{max} rpm	6600
Moment of inertia J 10?? Kgm ²	1.1
Thermal time constant T _{th} min	20
Voltage constant k _e V _s	0.42
Torque constant k _t Nm/A	0.73
Resistance phase to phase (20°C) R _w ?	1.95
Inductance phase to phase L _w mH	10.20
B.E.M.F. @ rated speed E _n Vrms	264

Stall current I_o Arms	4.8
Rated current I_n Arms	3.6
Peak current I_{pk} Arms	22.1
Connection type/size	7/1
Weight kg	3.8

Mechanical Data

Design	Aluminium
Degree of protection	IP 65
Bearings DE	6003
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