



Brushless Servo Motors

SERVO MOTORS - PREFERRED

- Speed, precision, control for top performance
- Application oriented: tailor-made service, from design to assistance
- Preferred series: for minimum delivery times



TECHNICAL DATA

Motor Type

B56.G5Q 3.5 Nm - 3000 rpm - 8 poles - 400V

PERFORMANCE DATA

Type	B56.G5Q
Stall torque (Deltat=105°C) Mo Nm	3.5
Rated speed n rpm	3000
Rated power P _n kW	1
Rated torque (Deltat=105°C) Mn Nm	3.1
Peak torque M _{pk} Nm	14
Max speed n _{max} rpm	6600
Moment of inertia J 10 ⁻⁴ Kgm ²	1.09
Peack torque acceleration a _{pk} rad/sec ²	128440
Thermal time constant T _{th} min	36
Voltage constant k _e V _s	0.94
Torque constant k _t Nm/A	1.63
Resistance phase to phase (20°C) R _w ?	10.7
Inductance phase to phase L _w mH	54.7

B.E.M.F. @ rated speed E_n Vrms	296
Stall current I_o Arms	2.1
Rated current I_n Arms	1.9
Peak current I_{pk} Arms	10.7
Power connector size	7/1
Weight kg	5.6

Mechanical Data

Design	Aluminium
Degree of protection	IP 65
Bearings DE	6202 2ZC3WT
Bearings NDE	6202 2ZC3WT
Lubrication grease	low & high temperature grease
Regreasing device	permanent lubrication
Cooling	radiation and natural convection
Vibration Level	A (normal)

Electrical Data

Poles	8
Voltage	400V
Thermal protection threshold θ_{max} °C	140