



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

B40.F7J 2.7 Nm - 6000 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B40.F7J
Stall torque (Deltat=105°C) Mo Nm	2.7
Rated speed n rpm	6000
Rated power P _n kW	1200
Rated torque (Deltat=105°C) Mn Nm	1.9
Peak torque M _{pk} Nm	8.5
Max speed n _{max} rpm	6600
Moment of inertia J 10?? Kgm ²	1.73
Peack torque acceleration a _{pk} rad/sec ²	49133
Thermal time constant T _{th} min	20
Voltage constant k _e V _s	0.47
Torque constant k _t Nm/A	0.81
Resistance phase to phase (20°C) R _w ?	2.9
Inductance phase to phase L _w mH	5.1

B.E.M.F. @ rated speed E_n Vrms	296
Stall current I_o Arms	2.46
Rated current I_n Arms	2.33
Peak current I_{pk} Arms	11.6
Power connector size	7/1
Weight kg	2.6

Mechanical Data

Design	Aluminium
Degree of protection	IP 65 except A side flange
Bearings DE	6004 2ZC3WT
Bearings NDE	6002 2ZC3WT
Lubrication grease	low & high temperature grease
Regreasing device	permanent lubrication
Cooling	radiation and natural convection
Vibration Level	A (normal)

Electrical Data

Poles	10
Voltage	400V
Thermal protection threshold θ_{max} °C	140