



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

B10.42J 55.4 Nm - 3000 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B10.42J
Stall torque (Deltat=105°C) Mo Nm	55.4
Rated speed n rpm	3000
Rated power P _n kW	14.3
Rated torque (Deltat=105°C) Mn Nm	45.5
Peak torque M _{pk} Nm	180
Max speed n _{max} rpm	4000
Moment of inertia J 10?? Kgm ²	74
Peack torque acceleration a _{pk} rad/sec ²	24324
Thermal time constant T _{th} min	46
Voltage constant k _e V _s	0.94
Torque constant k _t Nm/A	1.63
Resistance phase to phase (20°C) R _w ?	0.22
Inductance phase to phase L _w mH	3.9

B.E.M.F. @ rated speed E_n Vrms	296
Stall current I_o Arms	34
Rated current I_n Arms	27.9
Peak current I_{pk} Arms	158
Power connector size	7/1.5
Weight kg	30

Mechanical Data

Design	Aluminium
Degree of protection	IP 65
Bearings DE	6208 2ZC3WT
Bearings NDE	6206 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