



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

B16.300Q 390 Nm - 2500 rpm - 8 poles - 400V

PERFORMANCE DATA

Type	B16.300Q
Stall torque (Deltat=105°C) Mo Nm	390
Rated speed n rpm	2500
Rated power P _n kW	79
Rated torque (Deltat=105°C) Mn Nm	300
Peak torque M _{pk} Nm	1150
Max speed n _{max} rpm	3800
Moment of inertia J 10 ⁻⁴ Kgm ²	622
Peack torque acceleration a _{pk} rad/sec ²	18489
Thermal time constant T _{th} min	69
Voltage constant k _e V _s	1.13
Torque constant k _t Nm/A	1.96
Resistance phase to phase (20°C) R _w ?	0.016
Inductance phase to phase L _w mH	0.65

B.E.M.F. @ rated speed E_n Vrms	296
Stall current I_o Arms	199
Rated current I_n Arms	153
Peak current I_{pk} Arms	752
Power connector size	3/M12
Weight kg	216.5

Mechanical Data

Design	Aluminium
Degree of protection	IP 65 except A side flange
Bearings DE	6314 2ZC3WT
Bearings NDE	6309 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