



Brushless Servo Motors

TORQUE MOTORS

- Performance = speed + accuracy + efficiency
- Design and support to match your needs
- Designed for compatibility with most drives for maximum flexibility



TECHNICAL DATA

Motor Type

B16.50P 50 Nm - 500 rpm - 24 poles - 400V

PERFORMANCE DATA

Type	B16.50P
Stall torque (Deltat=105°C) Mo Nm	50
Rated speed n rpm	500
Rated power P _n kW	2.4
Rated torque (Deltat=105°C) Mn Nm	45
Peak torque M _{pk} Nm	173
Max speed n _{max} rpm	1200
Moment of inertia J 10 ⁻⁴ Kgm ²	409
Peack torque acceleration a _{pk} rad/sec ²	4230
Thermal time constant T _{th} min	50
Thermal protection threshold ?max °C	140
Voltage constant k _e V _s	5.8
Torque constant k _t Nm/A	10.05
Resistance phase to phase (20°C) R _w ?	3.72

Inductance phase to phase L_w mH	29
B.E.M.F. @ rated speed E_n Vrms	305
Stall current I_o Arms	5
Rated current I_n Arms	4.5
Weight kg	33

Mechanical Data

Design	Aluminium
Degree of protection	IP 65 except A side flange
Bearings DE	6216 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

Voltage	400V
Poles	24
Thermal protection	On-Off PTO switch
Insulation class	F
Ambient temperature	-15°C / +40 °C
Altitude	1000 m.a.s.l.