



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 18.510P 510 Nm - 300 rpm - 30 poles - 400V

PERFORMANCE DATA

Type	B18.510P
Stall torque (Deltat=105°C) Mo Nm	510
Rated speed n rpm	300
Rated power P_n kW	9.9
Rated torque (Deltat=105°C) Mn Nm	315
Peak torque M_{pk} Nm	1750
Max speed n_{max} rpm	700
Moment of inertia J 10?? Kgm²	7200
Peack torque acceleration a_{pk} rad/sec²	2431
Thermal time constant T_{th} min	177
Thermal protection threshold ?max °C	140
Voltage constant k_e V_s	9.4
Torque constant k_t Nm/A	16.3
Resistance phase to phase (20°C) R_w ?	0.33

Inductance phase to phase L_w mH	7.1
B.E.M.F. @ rated speed E_n Vrms	295
Stall current I_o Arms	31.3
Rated current I_n Arms	19.3
Weight kg	167

Mechanical Data

Design	Aluminium
Degree of protection	IP 65 except A side flange
Bearings DE	6224 2ZC3WT
Bearings NDE	6212 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	30
Thermal protection	On-Off PTO switch
Insulation class	F
Ambient temperature	-15°C / +40 °C
Altitude	1000 m.a.s.l.