



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

B18.420P 420 Nm - 300 rpm - 30 poles - 400V

PERFORMANCE DATA

Type	B18.420P
Stall torque (Deltat=105°C) Mo Nm	420
Rated speed n rpm	300
Rated power P _n kW	9.1
Rated torque (Deltat=105°C) Mn Nm	290
Peak torque M _{pk} Nm	1405
Max speed n _{max} rpm	700
Moment of inertia J 10?? Kgm ²	5800
Peack torque acceleration a _{pk} rad/sec ²	2422
Thermal time constant T _{th} min	150
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 ?	0.38

Inductance phase to phase L_w mH	8.7
B.E.M.F. @ rated speed E_n Vrms	295
Stall current I_o Arms	25.8
Rated current I_n Arms	17.8
Weight kg	141

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.