



Brushless Servo Motors

ULTRA COMPACT SERVO MOTORS

- Up to 30% increased power density
- Up to 20% reduced dimensions
- Sophisticated design, intended for extreme torque stability and precision



TECHNICAL DATA

Motor Type

B71.30U 30 Nm - 3000 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B71.30U
Stall torque (Deltat=105°C) Mo Nm	30
Rated speed n rpm	3000
Rated power P _n kW	6.2
Rated torque (Deltat=105°C) Mn Nm	19.60
Peak torque M _{pk} Nm	94.5
Max speed n _{max} rpm	5000
Moment of inertia J 10?? Kgm ²	20.9
Thermal time constant T _{th} min	45
Voltage constant k _e V _s	0.94
Torque constant k _t Nm/A	1.63
Resistance phase to phase (20°C) R _w ?	0.36
Inductance phase to phase L _w mH	5.1
B.E.M.F. @ rated speed E _n Vrms	296

Stall current I_o Arms	18.4
Rated current I_n Arms	12.0
Peak current I_{pk} Arms	75.6
Connection type/size	7/1
Weight kg	15

Mechanical Data

Design	Aluminium
Degree of protection	IP 65
Bearings DE	6208
Bearings NDE	6304
Lubrication grease	low & high temperature grease
Regreasing device	permanent lubrication
Cooling	radiation and natural convection
Vibration Level	A (normal)

Electrical Data

Voltage	400V
Poles	10
Thermal protection threshold θ_{max} °C	140