



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 - 2200 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B71.30U
Stall torque (Deltat=105°C) Mo Nm	30
Rated speed n rpm	2200
Rated power P_n kW	5.1
Rated torque (Deltat=105°C) Mn Nm	22.30
Peak torque M_{pk} Nm	94.5
Max speed n_{max} rpm	5000
Moment of inertia J 10?? Kgm²	20.9
Thermal time constant T_{th} min	45
Voltage constant k_e V_s	1.28
Torque constant k_t Nm/A	2.22
Resistance phase to phase (20°C) R_w ?	0.56
Inductance phase to phase L_w mH	8.1
B.E.M.F. @ rated speed E_n Vrms	296

Stall current I_o Arms	13.5
Rated current I_n Arms	10.1
Peak current I_{pk} Arms	55.6
Connection type/size	7/1
Weight kg	18.5

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