



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

B71.21U 21.5 Nm - 2200 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B71.21U
Stall torque (Deltat=105°C) Mo Nm	21.5
Rated speed n rpm	2200
Rated power P _n kW	3.8
Rated torque (Deltat=105°C) Mn Nm	16.50
Peak torque M _{pk} Nm	63.0
Max speed n _{max} rpm	5000
Moment of inertia J 10?? Kgm ²	12.9
Thermal time constant T _{th} min	42
Voltage constant k _e V _s	1.28
Torque constant k _t Nm/A	2.22
Resistance phase to phase (20°C) R _w ?	0.99
Inductance phase to phase L _w mH	13.1
B.E.M.F. @ rated speed E _n Vrms	296

Stall current I_o Arms	9.7
Rated current I_n Arms	7.4
Peak current I_{pk} Arms	38.2
Connection type/size	7/1
Weight kg	15.2

Mechanical Data

Design	Aluminium
Degree of protection	IP 65
Bearings DE	6205
Bearings NDE	6203
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