



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 28 Nm - 4500 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B71.21U
Stall torque (Deltat=105°C) Mo Nm	28
Rated speed n rpm	4500
Rated power P _n kW	8.5
Rated torque (Deltat=105°C) Mn Nm	17.0
Peak torque M _{pk} Nm	63.0
Max speed n _{max} rpm	5000
Moment of inertia J 10?? Kgm ²	12.90
Thermal time constant T _{th} min	17
Voltage constant k _e V _s	0.63
Torque constant k _t Nm/A	1.09
Resistance phase to phase (20°C) R _w ?	0.26
Inductance phase to phase L _w mH	3.4
B.E.M.F. @ rated speed E _n Vrms	296

Stall current I_o Arms	25.6
Rated current I_n Arms	15.6
Peak current I_{pk} Arms	77.6
Connection type/size	7/1
Weight kg	11.7

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