



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

B28.01U 0.95 Nm - 6000 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B28.01U
Stall torque (Deltat=105°C) Mo Nm	0.95
Rated speed n rpm	6000
Rated power P _n kW	503
Rated torque (Deltat=105°C) Mn Nm	0.80
Peak torque M _{pk} Nm	3.8
Max speed n _{max} rpm	9000
Moment of inertia J 10?? Kgm ²	0.15
Thermal time constant T _{th} min	13
Voltage constant k _e V _s	0.42
Torque constant k _t Nm/A	0.73
Resistance phase to phase (20°C) R _w ?	18.6
Inductance phase to phase L _w mH	28.5
B.E.M.F. @ rated speed E _n Vrms	264

Stall current I_o Arms	1.31
Rated current I_n Arms	1.10
Peak current I_{pk} Arms	6.9
Connection type/size	8/-
Weight kg	1.48

Mechanical Data

Design	Aluminium
Degree of protection	IP 65 except A side flange
Bearings DE	6000
Bearings NDE	6000
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	na