



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.E4U 1.4 Nm - 4500 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B28.E4U
Stall torque (Deltat=105°C) Mo Nm	1.4
Rated speed n rpm	4500
Rated power P _n kW	613
Rated torque (Deltat=105°C) Mn Nm	1.30
Peak torque M _{pk} Nm	5.6
Max speed n _{max} rpm	9000
Moment of inertia J 10?? Kgm ²	0.23
Thermal time constant T _{th} min	17
Voltage constant k _e V _s	0.56
Torque constant k _t Nm/A	0.97
Resistance phase to phase (20°C) R _w ?	16.9
Inductance phase to phase L _w mH	29.2
B.E.M.F. @ rated speed E _n Vrms	264

Stall current I_o Arms	1.44
Rated current I_n Arms	1.34
Peak current I_{pk} Arms	7.0
Connection type/size	8/-
Weight kg	1.83

Mechanical Data

Design	Aluminium
Degree of protection	IP 65 except A side flange
Bearings DE	6001
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