



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 B64.19U 27 Nm - 4500 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B64.19U
Stall torque (Deltat=105°C) Mo Nm	27
Rated speed n rpm	4500
Rated power P_n kW	8.2
Rated torque (Deltat=105°C) Mn Nm	17.5
Peak torque M_{pk} Nm	68
Max speed n_{max} rpm	6000
Moment of inertia J 10?? Kgm²	9.5
Thermal time constant T_{th} min	13
Voltage constant k_e V_s	0.63
Torque constant k_t Nm/A	1.09
Resistance phase to phase (20°C) R_w ?	0.29
Inductance phase to phase L_w mH	3.3
B.E.M.F. @ rated speed E_n Vrms	296

Stall current I_o Arms	24.8
Rated current I_n Arms	16.1
Peak current I_{pk} Arms	89.5
Connection type/size	7/1
Weight kg	12.5

Mechanical Data

Design	Aluminium
Degree of protection	IP 65
Bearings DE	6205
Bearings NDE	6303
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