



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 B64.11U 11.5 Nm - 3000 rpm - 10 poles - 400V

PERFORMANCE DATA

| | |
|---|---------|
| Type | B64.11U |
| Stall torque (Deltat=105°C) Mo Nm | 11.5 |
| Rated speed n rpm | 3000 |
| Rated power P_n kW | 2.8 |
| Rated torque (Deltat=105°C) Mn Nm | 9.0 |
| Peak torque M_{pk} Nm | 34 |
| Max speed n_{max} rpm | 6000 |
| Moment of inertia J 10?? Kgm² | 5.1 |
| Thermal time constant T_{th} min | 30 |
| Voltage constant k_e V_s | 0.94 |
| Torque constant k_t Nm/A | 1.63 |
| Resistance phase to phase (20°C) R_w ? | 1.55 |
| Inductance phase to phase L_w mH | 15.1 |
| B.E.M.F. @ rated speed E_n Vrms | 296 |

| | |
|--|------|
| Stall current I_o Arms | 7.1 |
| Rated current I_n Arms | 5.5 |
| Peak current I_{pk} Arms | 31.3 |
| Connection type/size | 7/1 |
| Weight kg | 7.2 |

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 |