



Brushless Servo Motors

SERVO MOTORS - PREFERRED

- Speed, precision, control for top performance
- Application oriented: tailor-made service, from design to assistance
- Preferred series: for minimum delivery times



TECHNICAL DATA

Motor Type

B13.81I 81 Nm - 2000 rpm - 6 poles - 400V

PERFORMANCE DATA

| | |
|--|---------|
| Type | B13.81I |
| Stall torque (Deltat=105°C) Mo Nm | 81 |
| Rated speed n rpm | 2000 |
| Rated power P _n kW | 12.6 |
| Rated torque (Deltat=105°C) Mn Nm | 60 |
| Peak torque M _{pk} Nm | 231 |
| Max speed n _{max} rpm | 3600 |
| Moment of inertia J 10?? Kgm ² | 126 |
| Peack torque acceleration a _{pk} rad/sec ² | 18333 |
| Thermal time constant T _{th} min | 70 |
| Voltage constant k _e V _s | 1.41 |
| Torque constant k _t Nm/A | 2.44 |
| Resistance phase to phase (20°C) R _w ? | 0.22 |
| Inductance phase to phase L _w mH | 6.5 |

| | |
|---|-------|
| B.E.M.F. @ rated speed E_n Vrms | 296 |
| Stall current I_o Arms | 33.1 |
| Rated current I_n Arms | 24.6 |
| Peak current I_{pk} Arms | 121 |
| Power connector size | 7.1.5 |
| Weight kg | 74 |

Mechanical Data

| | |
|-----------------------------|----------------------------------|
| Design | Aluminium |
| Degree of protection | IP 65 except A side flange |
| Bearings DE | 6309 2ZC3WT |
| Bearings NDE | 6208 2ZC3WT |
| Lubrication grease | low & high temperature grease |
| Regreasing device | permanent lubrication |
| Cooling | radiation and natural convection |
| Vibration Level | A (normal) |

Electrical Data

| | |
|--|------|
| Poles | 6 |
| Voltage | 400V |
| Thermal protection threshold θ_{max} °C | 140 |