



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

B10.54Q 81 Nm - 3000 rpm - 8 poles - 400V

PERFORMANCE DATA

| | |
|--|---------|
| Type | B10.54Q |
| Stall torque (Deltat=105°C) Mo Nm | 81 |
| Rated speed n rpm | 3000 |
| Rated power P _n kW | 21.0 |
| Rated torque (Deltat=105°C) Mn Nm | 66.8 |
| Peak torque M _{pk} Nm | 230 |
| Max speed n _{max} rpm | 4000 |
| Moment of inertia J 10?? Kgm ² | 63 |
| Peack torque acceleration a _{pk} rad/sec ² | 36508 |
| Thermal time constant T _{th} min | 54 |
| Voltage constant k _e V _s | 0.94 |
| Torque constant k _t Nm/A | 1.63 |
| Resistance phase to phase (20°C) R _w ? | 0.17 |
| Inductance phase to phase L _w mH | 2.5 |

| | |
|---|-------|
| B.E.M.F. @ rated speed E_n Vrms | 296 |
| Stall current I_o Arms | 50.4 |
| Rated current I_n Arms | 41 |
| Peak current I_{pk} Arms | 187 |
| Power connector size | 7/1.5 |
| Weight kg | 50 |

Mechanical Data

| | |
|-----------------------------|----------------------------------|
| Design | Aluminium |
| Degree of protection | IP 65 |
| Bearings DE | 6309 2ZC3WT |
| Bearings NDE | 6207 2ZC3WT |
| Lubrication grease | low & high temperature grease |
| Regreasing device | permanent lubrication |
| Cooling | radiation and natural convection |
| Vibration Level | A (normal) |

Electrical Data

| | |
|--|------|
| Poles | 8 |
| Voltage | 400V |
| Thermal protection threshold θ_{max} °C | 140 |