



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

B71.12Q 12.5 Nm - 2000 rpm - 8 poles - 400V

PERFORMANCE DATA

| | |
|--|---------|
| Type | B71.12Q |
| Stall torque (Deltat=105°C) Mo Nm | 12.5 |
| Rated speed n rpm | 2000 |
| Rated power P _n kW | 2.5 |
| Rated torque (Deltat=105°C) Mn Nm | 11.8 |
| Peak torque M _{pk} Nm | 41.4 |
| Max speed n _{max} rpm | 6600 |
| Moment of inertia J 10?? Kgm ² | 8.2 |
| Peack torque acceleration a _{pk} rad/sec ² | 50488 |
| Thermal time constant T _{th} min | 40 |
| Voltage constant k _e V _s | 1.41 |
| Torque constant k _t Nm/A | 2.44 |
| Resistance phase to phase (20°C) R _w ? | 2.51 |
| Inductance phase to phase L _w mH | 24.5 |

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|---|------|
| B.E.M.F. @ rated speed E_n Vrms | 296 |
| Stall current I_o Arms | 5.1 |
| Rated current I_n Arms | 4.8 |
| Peak current I_{pk} Arms | 21.1 |
| Power connector size | 7/1 |
| Weight kg | 13.5 |

Mechanical Data

| | |
|-----------------------------|----------------------------------|
| Design | Aluminium |
| Degree of protection | IP 65 |
| Bearings DE | 6205 2ZC3WT |
| Bearings NDE | 6203 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 |