



Brushless Servo Motors

ATEX SERVO MOTORS - ZONE 2-22

- Zone 2- 22 – category 3G (gas) and 3D (dust)



TECHNICAL DATA

Motor Type

B10.80J 80 Nm - 2000 rpm - 10 poles - 400V

PERFORMANCE DATA

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|--|---------|
| Type | B10.80J |
| Stall torque (Deltat=105°C) Mo Nm | 80 |
| Rated speed n rpm | 2000 |
| Rated power P _n kW | 12.1 |
| Rated torque (Deltat=105°C) Mn Nm | 57.8 |
| Peak torque M _{pk} Nm | 396 |
| Max speed n _{max} rpm | 4000 |
| Moment of inertia J 10?? Kgm ² | 158 |
| Peack torque acceleration a _{pk} rad/sec ² | 25068 |
| Thermal time constant T _{th} min | 74 |
| Thermal protection threshold ?max °C | 140 |
| Voltage constant k _e V _s | 1.41 |
| Torque constant k _t Nm/A | 2.45 |
| Resistance phase to phase (20°C) R _w ? | 0.18 |

| | |
|--|-------|
| Inductance phase to phase L_w mH | 4.1 |
| B.E.M.F. @ rated speed E_n Vrms | 296 |
| Stall current I_o Arms | 32.7 |
| Rated current I_n Arms | 23.6 |
| Peak current I_{pk} Arms | |
| Power connector size | 7/1.5 |

Electrical Data

| | |
|------------------|------|
| Weight kg | 60 |
| Poles | 10 |
| Voltage | 400V |