



Brushless Servo Motors

ATEX SERVO MOTORS - ZONE 2-22

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



TECHNICAL DATA

Motor Type

B10.54Q 54 Nm - 1500 rpm - 8 poles - 400V

PERFORMANCE DATA

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|--|---------|
| Type | B10.54Q |
| Stall torque (Deltat=105°C) Mo Nm | 54 |
| Rated speed n rpm | 1500 |
| Rated power P _n kW | 6.6 |
| Rated torque (Deltat=105°C) Mn Nm | 42 |
| 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 |
| Thermal protection threshold ?max °C | 140 |
| Voltage constant k _e V _s | 1.88 |
| Torque constant k _t Nm/A | 3.26 |
| Resistance phase to phase (20°C) R _w ? | 0.66 |

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|--|------|
| Inductance phase to phase L_w mH | 9.8 |
| B.E.M.F. @ rated speed E_n Vrms | 296 |
| Stall current I_o Arms | 16.6 |
| Rated current I_n Arms | 12.9 |
| Peak current I_{pk} Arms | 94 |
| Power connector size | 7/1 |

Electrical Data

| | |
|------------------|------|
| Weight kg | 57 |
| Poles | 8 |
| Voltage | 400V |