



Brushless Servo Motors

ATEX SERVO MOTORS - ZONE 2-22

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



TECHNICAL DATA

Motor Type

B28.D5Q 0.5 Nm - 6000 rpm - 8 poles - 400V

PERFORMANCE DATA

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|----------------------------------------------------------------|---------|
| Type | B28.D5Q |
| Stall torque (Deltat=105°C) Mo Nm | 0.5 |
| Rated speed n rpm | 6000 |
| Rated power P _n kW | 295 |
| Rated torque (Deltat=105°C) Mn Nm | 0.47 |
| Peak torque M _{pk} Nm | 2 |
| Max speed n _{max} rpm | 6600 |
| Moment of inertia J 10?? Kgm ² | 0.13 |
| Peack torque acceleration a _{pk} rad/sec ² | 153846 |
| Thermal time constant T _{th} min | 34 |
| Thermal protection threshold ?max °C | 140 |
| Voltage constant k _e V _s | 0.42 |
| Torque constant k _t Nm/A | 0.73 |
| Resistance phase to phase (20°C) R _w ? | 38.9 |

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|------------------------------------|------|
| Inductance phase to phase L_w mH | 55.9 |
| B.E.M.F. @ rated speed E_n Vrms | 264 |
| Stall current I_o Arms | 0.69 |
| Rated current I_n Arms | 0.65 |
| Peak current I_{pk} Arms | 3.2 |
| Power connector size | 7/1 |

Electrical Data

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|-----------|------|
| Weight kg | 1.7 |
| Poles | 8 |
| Voltage | 400V |