



### Brushless Servo Motors

### ATEX SERVO MOTORS - ZONE 2-22

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



## TECHNICAL DATA

Motor Type

B36.D6Q 0.6 Nm - 3000 rpm - 8 poles - 400V

## PERFORMANCE DATA

|  |         |
|--|---------|
| Type   | B36.D6Q |
| Stall torque (Deltat=105°C) Mo Nm                              | 0.6     |
| Rated speed n rpm  | 3000    |
| Rated power P <sub>n</sub> kW                                  | 172.8   |
| Rated torque (Deltat=105°C) Mn Nm                              | 0.55    |
| Peak torque M <sub>pk</sub> Nm                                 | 2.1     |
| Max speed n <sub>max</sub> rpm                                 | 6600    |
| Moment of inertia J 10?? Kgm <sup>2</sup>                      | 0.25    |
| Peack torque acceleration a <sub>pk</sub> rad/sec <sup>2</sup> | 84000   |
| Thermal time constant T <sub>th</sub> min                      | 30      |
| Thermal protection threshold ?max °C                           | 140     |
| Voltage constant k <sub>e</sub> V <sub>s</sub>                 | 0.84    |
| Torque constant k <sub>t</sub> Nm/A                            | 1.45    |
| Resistance phase to phase (20°C) R <sub>w</sub> ?              | 105     |

|                                    |     |
|------------------------------------|-----|
| Inductance phase to phase $L_w$ mH | 144 |
| B.E.M.F. @ rated speed $E_n$ Vrms  | 264 |
| Stall current $I_o$ Arms           | 0.4 |
| Rated current $I_n$ Arms           | 0.4 |
| Peak current $I_{pk}$ Arms         | 1.8 |
| Power connector size               | 7/1 |

## Electrical Data

|           |      |
|-----------|------|
| Weight kg | 2    |
| Poles     | 8    |
| Voltage   | 400V |