



**Brushless Servo Motors**

**ATEX SERVO MOTORS - ZONE 2-22**

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



**TECHNICAL DATA**

**Motor Type**

B63.04Q 4 Nm - 6000 rpm - 8 poles - 400V

**PERFORMANCE DATA**

|  |         |
|--|---------|
| Type   | B63.04Q |
| Stall torque (Deltat=105°C) Mo Nm                              | 4       |
| Rated speed n rpm  | 6000    |
| Rated power P <sub>n</sub> kW                                  | 1.5     |
| Rated torque (Deltat=105°C) Mn Nm                              | 2.4     |
| Peak torque M <sub>pk</sub> Nm                                 | 12      |
| Max speed n <sub>max</sub> rpm                                 | 6600    |
| Moment of inertia J 10?? Kgm <sup>2</sup>                      | 1.87    |
| Peack torque acceleration a <sub>pk</sub> rad/sec <sup>2</sup> | 64171   |
| Thermal time constant T <sub>th</sub> min                      | 25      |
| Thermal protection threshold ?max °C                           | 140     |
| Voltage constant k <sub>e</sub> V <sub>s</sub>                 | 0.47    |
| Torque constant k <sub>t</sub> Nm/A                            | 0.81    |
| Resistance phase to phase (20°C) R <sub>w</sub> ?              | 1.35    |

|                                    |      |
|------------------------------------|------|
| Inductance phase to phase $L_w$ mH | 9.13 |
| B.E.M.F. @ rated speed $E_n$ Vrms  | 296  |
| Stall current $I_o$ Arms           | 4.9  |
| Rated current $I_n$ Arms           | 2.9  |
| Peak current $I_{pk}$ Arms         | 22.1 |
| Power connector size               | 7/1  |

## Electrical Data

|           |      |
|-----------|------|
| Weight kg | 4.7  |
| Poles     | 8    |
| Voltage   | 400V |