



**Brushless Servo Motors**

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

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



**TECHNICAL DATA**

Motor Type

B36.F4Q 2.4 Nm - 6000 rpm - 8 poles - 400V

**PERFORMANCE DATA**

Type	B36.F4Q
Stall torque (Deltat=105°C) Mo Nm	2.4
Rated speed n rpm	6000
Rated power P <sub>n</sub> kW	1225
Rated torque (Deltat=105°C) Mn Nm	2
Peak torque M <sub>pk</sub> Nm	8.5
Max speed n <sub>max</sub> rpm	6600
Moment of inertia J 10?? Kgm <sup>2</sup>	1.05
Peack torque acceleration a <sub>pk</sub> rad/sec <sup>2</sup>	80952
Thermal time constant T <sub>th</sub> min	36
Thermal protection threshold ?max °C	140
Voltage constant k <sub>e</sub> V <sub>s</sub>	0.42
Torque constant k <sub>t</sub> Nm/A	0.73
Resistance phase to phase (20°C) R <sub>w</sub> ?	3.75

Inductance phase to phase $L_w$ mH	9
B.E.M.F. @ rated speed $E_n$ Vrms	264
Stall current $I_o$ Arms	3.3
Rated current $I_n$ Arms	2.7
Peak current $I_{pk}$ Arms	14.8
Power connector size	7/1

## Electrical Data

Weight kg	4.2
Poles	8
Voltage	400V