



**Brushless Servo Motors**

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

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



**TECHNICAL DATA**

**Motor Type**

B16.B4Q 240 Nm - 2000 rpm - 8 poles - 400V

**PERFORMANCE DATA**

<b>Type</b>	B16.B4Q
<b>Stall torque (Deltat=105°C) Mo Nm</b>	240
<b>Rated speed n rpm</b>	2000
<b>Rated power P<sub>n</sub> kW</b>	31
<b>Rated torque (Deltat=105°C) Mn Nm</b>	148
<b>Peak torque M<sub>pk</sub> Nm</b>	900
<b>Max speed n<sub>max</sub> rpm</b>	3800
<b>Moment of inertia J 10?? Kgm<sup>2</sup></b>	497
<b>Peack torque acceleration a<sub>pk</sub> rad/sec<sup>2</sup></b>	18109
<b>Thermal time constant T<sub>th</sub> min</b>	67
<b>Thermal protection threshold ?max °C</b>	140
<b>Voltage constant k<sub>e</sub> V<sub>s</sub></b>	1.41
<b>Torque constant k<sub>t</sub> Nm/A</b>	2.44
<b>Resistance phase to phase (20°C) R<sub>w</sub> ?</b>	0.037

Inductance phase to phase $L_w$ mH	1.40
B.E.M.F. @ rated speed $E_n$ Vrms	296
Stall current $I_o$ Arms	98
Rated current $I_n$ Arms	61
Peak current $I_{pk}$ Arms	
Power connector size	3/M10

## Electrical Data

Weight kg	173
Poles	8
Voltage	400V