



**Brushless Servo Motors**

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

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



**TECHNICAL DATA**

**Motor Type**

B10.68J 68 Nm - 2000 rpm - 10 poles - 400V

**PERFORMANCE DATA**

Type	B10.68J
Stall torque (Deltat=105°C) Mo Nm	68
Rated speed n rpm	2000
Rated power P <sub>n</sub> kW	10.7
Rated torque (Deltat=105°C) Mn Nm	50.9
Peak torque M <sub>pk</sub> Nm	322
Max speed n <sub>max</sub> rpm	4000
Moment of inertia J 10?? Kgm <sup>2</sup>	130
Peack torque acceleration a <sub>pk</sub> rad/sec <sup>2</sup>	24769
Thermal time constant T <sub>th</sub> min	65
Thermal protection threshold ?max °C	140
Voltage constant k <sub>e</sub> V <sub>s</sub>	1.41
Torque constant k <sub>t</sub> Nm/A	2.45
Resistance phase to phase (20°C) R <sub>w</sub> ?	0.23

<b>Inductance phase to phase <math>L_w</math> mH</b>	4.7
<b>B.E.M.F. @ rated speed <math>E_n</math> Vrms</b>	296
<b>Stall current <math>I_o</math> Arms</b>	27.8
<b>Rated current <math>I_n</math> Arms</b>	20.8
<b>Peak current <math>I_{pk}</math> Arms</b>	
<b>Power connector size</b>	7/1.5

## Electrical Data

<b>Weight kg</b>	47
<b>Poles</b>	10
<b>Voltage</b>	400V