



**Brushless Servo Motors**

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

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



**TECHNICAL DATA**

**Motor Type**

B56.H5Q 4.5 Nm - 3000 rpm - 8 poles - 400V

**PERFORMANCE DATA**

<b>Type</b>	B56.H5Q
<b>Stall torque (Deltat=105°C) Mo Nm</b>	4.5
<b>Rated speed n rpm</b>	3000
<b>Rated power P<sub>n</sub> kW</b>	1.2
<b>Rated torque (Deltat=105°C) Mn Nm</b>	3.9
<b>Peak torque M<sub>pk</sub> Nm</b>	18
<b>Max speed n<sub>max</sub> rpm</b>	6600
<b>Moment of inertia J 10?? Kgm<sup>2</sup></b>	1.4
<b>Peack torque acceleration a<sub>pk</sub> rad/sec<sup>2</sup></b>	128571
<b>Thermal time constant T<sub>th</sub> min</b>	39
<b>Thermal protection threshold ?max °C</b>	140
<b>Voltage constant k<sub>e</sub> V<sub>s</sub></b>	0.94
<b>Torque constant k<sub>t</sub> Nm/A</b>	1.63
<b>Resistance phase to phase (20°C) R<sub>w</sub> ?</b>	6.9

<b>Inductance phase to phase <math>L_w</math> mH</b>	43.7
<b>B.E.M.F. @ rated speed <math>E_n</math> Vrms</b>	296
<b>Stall current <math>I_o</math> Arms</b>	2.8
<b>Rated current <math>I_n</math> Arms</b>	2.4
<b>Peak current <math>I_{pk}</math> Arms</b>	13.6
<b>Power connector size</b>	7/1

## Electrical Data

<b>Weight kg</b>	5.8
<b>Poles</b>	8
<b>Voltage</b>	400V