



### Brushless Servo Motors

### ATEX SERVO MOTORS - ZONE 2-22

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



## TECHNICAL DATA

Motor Type

B13.81I 81 Nm - 3000 rpm - 6 poles - 400V

## PERFORMANCE DATA

Type	B13.81I
Stall torque (Deltat=105°C) Mo Nm	81
Rated speed n rpm	3000
Rated power P <sub>n</sub> kW	16.8
Rated torque (Deltat=105°C) Mn Nm	53.5
Peak torque M <sub>pk</sub> Nm	231
Max speed n <sub>max</sub> rpm	3600
Moment of inertia J 10?? Kgm <sup>2</sup>	126
Peack torque acceleration a <sub>pk</sub> rad/sec <sup>2</sup>	18333
Thermal time constant T <sub>th</sub> min	70
Thermal protection threshold ?max °C	140
Voltage constant k <sub>e</sub> V <sub>s</sub>	0.94
Torque constant k <sub>t</sub> Nm/A	1.63
Resistance phase to phase (20°C) R <sub>w</sub> ?	0.1

<b>Inductance phase to phase <math>L_w</math> mH</b>	2.9
<b>B.E.M.F. @ rated speed <math>E_n</math> Vrms</b>	296
<b>Stall current <math>I_o</math> Arms</b>	49.7
<b>Rated current <math>I_n</math> Arms</b>	32.8
<b>Peak current <math>I_{pk}</math> Arms</b>	
<b>Power connector size</b>	7/1.5

## Electrical Data

<b>Weight kg</b>	67
<b>Poles</b>	6
<b>Voltage</b>	400V