



### 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

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

## Electrical Data

Weight kg	74
Poles	6
Voltage	400V