



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 - 1500 rpm - 6 poles - 400V

PERFORMANCE DATA

Type	B13.81I
Stall torque (Deltat=105°C) Mo Nm	81
Rated speed n rpm	1500
Rated power P _n kW	10.2
Rated torque (Deltat=105°C) Mn Nm	65
Peak torque M _{pk} Nm	231
Max speed n _{max} rpm	3600
Moment of inertia J 10?? Kgm ²	126
Peack torque acceleration a _{pk} rad/sec ²	18333
Thermal time constant T _{th} min	70
Thermal protection threshold ?max °C	140
Voltage constant k _e V _s	1.88
Torque constant k _t Nm/A	3.26
Resistance phase to phase (20°C) R _w ?	0.39

Inductance phase to phase L_w mH	11.5
B.E.M.F. @ rated speed E_n Vrms	296
Stall current I_o Arms	24.8
Rated current I_n Arms	19.9
Peak current I_{pk} Arms	
Power connector size	7/1

Electrical Data

Weight kg	67
Poles	6
Voltage	400V