



Brushless Servo Motors

ATEX SERVO MOTORS - ZONE 2-22

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



TECHNICAL DATA

Motor Type

B13.42I 42 Nm - 3000 rpm - 6 poles - 400V

PERFORMANCE DATA

Type	B13.42I
Stall torque (Deltat=105°C) Mo Nm	42
Rated speed n rpm	3000
Rated power P _n kW	8.6
Rated torque (Deltat=105°C) Mn Nm	27.5
Peak torque M _{pk} Nm	120
Max speed n _{max} rpm	3600
Moment of inertia J 10?? Kgm ²	65
Peack torque acceleration a _{pk} rad/sec ²	18462
Thermal time constant T _{th} min	50
Thermal protection threshold ?max °C	140
Voltage constant k _e V _s	0.94
Torque constant k _t Nm/A	1.63
Resistance phase to phase (20°C) R _w ?	0.23

Inductance phase to phase L_w mH	5.4
B.E.M.F. @ rated speed E_n Vrms	296
Stall current I_o Arms	25.8
Rated current I_n Arms	16.9
Peak current I_{pk} Arms	
Power connector size	7/1

Electrical Data

Weight kg	55
Poles	6
Voltage	400V