



Brushless Servo Motors

ATEX SERVO MOTORS - ZONE 2-22

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



TECHNICAL DATA

Motor Type

B10.42J 42 Nm - 2000 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B10.42J
Stall torque (Deltat=105°C) Mo Nm	42
Rated speed n rpm	2000
Rated power P _n kW	7.6
Rated torque (Deltat=105°C) Mn Nm	36.1
Peak torque M _{pk} Nm	180
Max speed n _{max} rpm	4000
Moment of inertia J 10?? Kgm ²	74
Peack torque acceleration a _{pk} rad/sec ²	24324
Thermal time constant T _{th} min	46
Thermal protection threshold ?max °C	140
Voltage constant k _e V _s	1.41
Torque constant k _t Nm/A	2.45
Resistance phase to phase (20°C) R _w ?	0.45

Inductance phase to phase L_w mH	8.8
B.E.M.F. @ rated speed E_n Vrms	296
Stall current I_o Arms	17.2
Rated current I_n Arms	14.8
Peak current I_{pk} Arms	
Power connector size	7/1

Electrical Data

Weight kg	35
Poles	10
Voltage	400V