



Brushless Servo Motors

ATEX SERVO MOTORS - ZONE 2-22

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



TECHNICAL DATA

Motor Type

B10.90Q 90 Nm - 1500 rpm - 8 poles - 400V

PERFORMANCE DATA

Type	B10.90Q
Stall torque (Deltat=105°C) Mo Nm	90
Rated speed n rpm	1500
Rated power P _n kW	10
Rated torque (Deltat=105°C) Mn Nm	63.7
Peak torque M _{pk} Nm	380
Max speed n _{max} rpm	4000
Moment of inertia J 10?? Kgm ²	98
Peack torque acceleration a _{pk} rad/sec ²	38776
Thermal time constant T _{th} min	58
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 ?	0.33

Inductance phase to phase L_w mH	5.7
B.E.M.F. @ rated speed E_n Vrms	296
Stall current I_o Arms	27.6
Rated current I_n Arms	19.6
Peak current I_{pk} Arms	150
Power connector size	7/1.5

Electrical Data

Weight kg	72
Poles	8
Voltage	400V