



Brushless Servo Motors

ATEX SERVO MOTORS - ZONE 2-22

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



TECHNICAL DATA

Motor Type

B10.54Q 54 Nm - 3000 rpm - 8 poles - 400V

PERFORMANCE DATA

Type	B10.54Q
Stall torque (Deltat=105°C) Mo Nm	54
Rated speed n rpm	3000
Rated power P _n kW	9.7
Rated torque (Deltat=105°C) Mn Nm	31
Peak torque M _{pk} Nm	230
Max speed n _{max} rpm	4000
Moment of inertia J 10?? Kgm ²	63
Peack torque acceleration a _{pk} rad/sec ²	36508
Thermal time constant T _{th} min	54
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 ?	0.17

Inductance phase to phase L_w mH	2.5
B.E.M.F. @ rated speed E_n Vrms	296
Stall current I_o Arms	33.2
Rated current I_n Arms	19.0
Peak current I_{pk} Arms	187
Power connector size	7/1.5

Electrical Data

Weight kg	57
Poles	8
Voltage	400V