



Brushless Servo Motors

ATEX SERVO MOTORS - ZONE 2-22

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



TECHNICAL DATA

Motor Type

B40.F7J 2.7 Nm - 3000 rpm - 10 poles - 400V

PERFORMANCE DATA

Type	B40.F7J
Stall torque (Deltat=105°C) Mo Nm	2.7
Rated speed n rpm	3000
Rated power P _n kW	700
Rated torque (Deltat=105°C) Mn Nm	2.4
Peak torque M _{pk} Nm	8.5
Max speed n _{max} rpm	6600
Moment of inertia J 10?? Kgm ²	1.73
Peack torque acceleration a _{pk} rad/sec ²	49133
Thermal time constant T _{th} min	20
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 ?	11.2

Inductance phase to phase L_w mH	19.8
B.E.M.F. @ rated speed E_n Vrms	296
Stall current I_o Arms	1.66
Rated current I_n Arms	1.47
Peak current I_{pk} Arms	5.8
Power connector size	7/1

Electrical Data

Weight kg	2.6
Poles	10
Voltage	400V