



## Brushless Servo Motors

### ATEX SERVO MOTORS - ZONE 2-22

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



## TECHNICAL DATA

Motor Type

B16.300Q 300 Nm - 1500 rpm - 8 poles - 400V

## PERFORMANCE DATA

Type	B16.300Q
Stall torque (Deltat=105°C) Mo Nm	300
Rated speed n rpm	1500
Rated power P <sub>n</sub> kW	36
Rated torque (Deltat=105°C) Mn Nm	229
Peak torque M <sub>pk</sub> Nm	1150
Max speed n <sub>max</sub> rpm	3800
Moment of inertia J 10?? Kgm <sup>2</sup>	622
Peack torque acceleration a <sub>pk</sub> rad/sec <sup>2</sup>	18489
Thermal time constant T <sub>th</sub> min	69
Thermal protection threshold ?max °C	140
Voltage constant k <sub>e</sub> V <sub>s</sub>	1.88
Torque constant k <sub>t</sub> Nm/A	3.26
Resistance phase to phase (20°C) R <sub>w</sub> ?	0.045

Inductance phase to phase $L_w$ mH	1.70
B.E.M.F. @ rated speed $E_n$ Vrms	296
Stall current $I_o$ Arms	92
Rated current $I_n$ Arms	70
Peak current $I_{pk}$ Arms	
Power connector size	3/M10

## Electrical Data

Weight kg	205
Poles	8
Voltage	400V