



### Brushless Servo Motors

### ATEX SERVO MOTORS - ZONE 2-22

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



## TECHNICAL DATA

Motor Type

B10.56J 56 Nm - 2000 rpm - 10 poles - 400V

## PERFORMANCE DATA

|  |         |
|--|---------|
| Type   | B10.56J |
| Stall torque (Deltat=105°C) Mo Nm                              | 56      |
| Rated speed n rpm  | 2000    |
| Rated power P <sub>n</sub> kW                                  | 9.3     |
| Rated torque (Deltat=105°C) Mn Nm                              | 44.5    |
| Peak torque M <sub>pk</sub> Nm                                 | 230     |
| Max speed n <sub>max</sub> rpm                                 | 4000    |
| Moment of inertia J 10?? Kgm <sup>2</sup>                      | 102     |
| Peack torque acceleration a <sub>pk</sub> rad/sec <sup>2</sup> | 22549   |
| Thermal time constant T <sub>th</sub> min                      | 56      |
| Thermal protection threshold ?max °C                           | 140     |
| Voltage constant k <sub>e</sub> V <sub>s</sub>                 | 1.41    |
| Torque constant k <sub>t</sub> Nm/A                            | 2.45    |
| Resistance phase to phase (20°C) R <sub>w</sub> ?              | 0.34    |

|  |      |
|--|------|
| <b>Inductance phase to phase <math>L_w</math> mH</b> | 6.1  |
| <b>B.E.M.F. @ rated speed <math>E_n</math> Vrms</b>  | 296  |
| <b>Stall current <math>I_o</math> Arms</b>           | 22.9 |
| <b>Rated current <math>I_n</math> Arms</b>           | 18.2 |
| <b>Peak current <math>I_{pk}</math> Arms</b>         |      |
| <b>Power connector size</b>                          | 7/1  |

## Electrical Data

|                  |      |
|------------------|------|
| <b>Weight kg</b> | 43   |
| <b>Poles</b>     | 10   |
| <b>Voltage</b>   | 400V |