



### Brushless Servo Motors

### SERVO MOTORS - PREFERRED

- Speed, precision, control for top performance
- Application oriented: tailor-made service, from design to assistance
- Preferred series: for minimum delivery times



## TECHNICAL DATA

Motor Type

B63.10Q 13 Nm - 3000 rpm - 8 poles - 400V

## PERFORMANCE DATA

|  |         |
|--|---------|
| Type   | B63.10Q |
| Stall torque (Deltat=105°C) Mo Nm                              | 13      |
| Rated speed n rpm  | 3000    |
| Rated power P <sub>n</sub> kW                                  | 3.7     |
| Rated torque (Deltat=105°C) Mn Nm                              | 11.8    |
| Peak torque M <sub>pk</sub> Nm                                 | 30      |
| Max speed n <sub>max</sub> rpm                                 | 6600    |
| Moment of inertia J 10?? Kgm <sup>2</sup>                      | 4.27    |
| Peack torque acceleration a <sub>pk</sub> rad/sec <sup>2</sup> | 70258   |
| Thermal time constant T <sub>th</sub> min                      | 35      |
| Voltage constant k <sub>e</sub> V <sub>s</sub>                 | 0.94    |
| Torque constant k <sub>t</sub> Nm/A                            | 1.63    |
| Resistance phase to phase (20°C) R <sub>w</sub> ?              | 1.9     |
| Inductance phase to phase L <sub>w</sub> mH                    | 17.4    |

|   |      |
|---|------|
| <b>B.E.M.F. @ rated speed <math>E_n</math> Vrms</b> | 296  |
| <b>Stall current <math>I_o</math> Arms</b>          | 8    |
| <b>Rated current <math>I_n</math> Arms</b>          | 7.2  |
| <b>Peak current <math>I_{pk}</math> Arms</b>        | 27.5 |
| <b>Power connector size</b>                         | 7/1  |
| <b>Weight kg</b>                                    | 7.2  |

## Mechanical Data

|                             |                                  |
|-----------------------------|----------------------------------|
| <b>Design</b>               | Aluminium                        |
| <b>Degree of protection</b> | IP 65                            |
| <b>Bearings DE</b>          | 6204 2ZC3WT                      |
| <b>Bearings NDE</b>         | 6204 2ZC3WT                      |
| <b>Lubrication grease</b>   | low & high temperature grease    |
| <b>Regreasing device</b>    | permanent lubrication            |
| <b>Cooling</b>              | radiation and natural convection |
| <b>Vibration Level</b>      | A (normal)                       |

## Electrical Data

|  |      |
|--|------|
| <b>Poles</b>   | 8    |
| <b>Voltage</b>   | 400V |
| <b>Thermal protection threshold <math>\theta_{max}</math> °C</b> | 140  |