



## 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

B63.08Q 8 Nm - 6000 rpm - 8 poles - 400V

## PERFORMANCE DATA

| Type                                                           | B63.08Q |
|----------------------------------------------------------------|---------|
| Stall torque (Deltat=105°C) Mo Nm                              | 8       |
| Rated speed n rpm                                              | 6000    |
| Rated power P <sub>n</sub> kW                                  | 3       |
| Rated torque (Deltat=105°C) Mn Nm                              | 4.8     |
| Peak torque M <sub>pk</sub> Nm                                 | 24      |
| Max speed n <sub>max</sub> rpm                                 | 6600    |
| Moment of inertia J 10?? Kgm <sup>2</sup>                      | 3.47    |
| Peack torque acceleration a <sub>pk</sub> rad/sec <sup>2</sup> | 69164   |
| Thermal time constant T <sub>th</sub> min                      | 30      |
| Voltage constant k <sub>e</sub> V <sub>s</sub>                 | 0.47    |
| Torque constant k <sub>t</sub> Nm/A                            | 0.81    |
| Resistance phase to phase (20°C) R <sub>w</sub> ?              | 0.63    |
| Inductance phase to phase L <sub>w</sub> mH                    | 5.45    |

|                                                     |      |
|-----------------------------------------------------|------|
| <b>B.E.M.F. @ rated speed <math>E_n</math> Vrms</b> | 296  |
| <b>Stall current <math>I_o</math> Arms</b>          | 9.8  |
| <b>Rated current <math>I_n</math> Arms</b>          | 5.9  |
| <b>Peak current <math>I_{pk}</math> Arms</b>        | 44.1 |
| <b>Power connector size</b>                         | 7/1  |
| <b>Weight kg</b>                                    | 6.2  |

## 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  |