



**Brushless Servo Motors**

**TORQUE MOTORS**

- Performance = speed + accuracy + efficiency
- Design and support to match your needs
- Designed for compatibility with most drives for maximum flexibility



**TECHNICAL DATA**

Motor Type

B16.50P 50 Nm - 500 rpm - 24 poles - 400V

**PERFORMANCE DATA**

Type	B16.50P
Stall torque (Deltat=105°C) Mo Nm	50
Rated speed n rpm	500
Rated power P <sub>n</sub> kW	2.4
Rated torque (Deltat=105°C) Mn Nm	45
Peak torque M <sub>pk</sub> Nm	173
Max speed n <sub>max</sub> rpm	1200
Moment of inertia J 10?? Kgm <sup>2</sup>	409
Peack torque acceleration a <sub>pk</sub> rad/sec <sup>2</sup>	4230
Thermal time constant T <sub>th</sub> min	50
Thermal protection threshold ?max °C	140
Voltage constant k <sub>e</sub> V <sub>s</sub>	5.8
Torque constant k <sub>t</sub> Nm/A	10.05
Resistance phase to phase (20°C) R <sub>w</sub> ?	3.72

<b>Inductance phase to phase <math>L_w</math> mH</b>	29
<b>B.E.M.F. @ rated speed <math>E_n</math> Vrms</b>	305
<b>Stall current <math>I_o</math> Arms</b>	5
<b>Rated current <math>I_n</math> Arms</b>	4.5
<b>Weight kg</b>	33

## Mechanical Data

<b>Design</b>	Aluminium
<b>Degree of protection</b>	IP 65 except A side flange
<b>Bearings DE</b>	6216 2ZC3WT
<b>Bearings NDE</b>	6309 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>Voltage</b>	400V
<b>Poles</b>	24
<b>Thermal protection</b>	On-Off PTO switch
<b>Insulation class</b>	F
<b>Ambient temperature</b>	-15°C / +40 °C
<b>Altitude</b>	1000 m.a.s.l.