



## 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.C0P 100 Nm - 500 rpm - 24 poles - 400V

## PERFORMANCE DATA

Type	B16.C0P
Stall torque (Deltat=105°C) Mo Nm	100
Rated speed n rpm	500
Rated power P <sub>n</sub> kW	4.7
Rated torque (Deltat=105°C) Mn Nm	90
Peak torque M <sub>pk</sub> Nm	345
Max speed n <sub>max</sub> rpm	1200
Moment of inertia J 10?? Kgm <sup>2</sup>	784
Peack torque acceleration a <sub>pk</sub> rad/sec <sup>2</sup>	4401
Thermal time constant T <sub>th</sub> min	70
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> ?	1.63

Inductance phase to phase $L_w$ mH	15.1
B.E.M.F. @ rated speed $E_n$ Vrms	305
Stall current $I_o$ Arms	10
Rated current $I_n$ Arms	9
Weight kg	50

## Mechanical Data

Design	Aluminium
Degree of protection	IP 65 except A side flange
Bearings DE	6216 2ZC3WT
Bearings NDE	6309 2ZC3WT
Lubrication grease	low & high temperature grease
Regreasing device	permanent lubrication
Cooling	radiation and natural convection
Vibration Level	A (normal)

## Electrical Data

Voltage	400V
Poles	24
Thermal protection	On-Off PTO switch
Insulation class	F
Ambient temperature	-15°C / +40 °C
Altitude	1000 m.a.s.l.