



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

B71.12Q 12.5 Nm - 4500 rpm - 8 poles - 400V

PERFORMANCE DATA

Type	B71.12Q
Stall torque (Deltat=105°C) Mo Nm	12.5
Rated speed n rpm	4500
Rated power P _n kW	4.5
Rated torque (Deltat=105°C) Mn Nm	9.5
Peak torque M _{pk} Nm	41.4
Max speed n _{max} rpm	6600
Moment of inertia J 10 ⁻³ Kgm ²	8.2
Peack torque acceleration a _{pk} rad/sec ²	50488
Thermal time constant T _{th} min	40
Voltage constant k _e V _s	0.63
Torque constant k _t Nm/A	1.09
Resistance phase to phase (20°C) R _w ?	0.51
Inductance phase to phase L _w mH	5

B.E.M.F. @ rated speed E_n Vrms	296
Stall current I_o Arms	11.5
Rated current I_n Arms	8.7
Peak current I_{pk} Arms	47.2
Power connector size	7/1
Weight kg	13.5

Mechanical Data

Design	Aluminium
Degree of protection	IP 65
Bearings DE	6205 2ZC3WT
Bearings NDE	6203 2ZC3WT
Lubrication grease	low & high temperature grease
Regreasing device	permanent lubrication
Cooling	radiation and natural convection
Vibration Level	A (normal)

Electrical Data

Poles	8
Voltage	400V
Thermal protection threshold θ_{max} °C	140