



## Brushless Servo Motors

### ULTRA COMPACT SERVO MOTORS

- Up to 30% increased power density
- Up to 20% reduced dimensions
- Sophisticated design, intended for extreme torque stability and precision



## TECHNICAL DATA

**Motor Type** B56.H6U 4.6 Nm - 6000 rpm - 10 poles - 400V

## PERFORMANCE DATA

<b>Type</b>	B56.H6U
<b>Stall torque (Deltat=105°C) Mo Nm</b>	4.6
<b>Rated speed n rpm</b>	6000
<b>Rated power P<sub>n</sub> kW</b>	1.9
<b>Rated torque (Deltat=105°C) Mn Nm</b>	3.1
<b>Peak torque M<sub>pk</sub> Nm</b>	15.0
<b>Max speed n<sub>max</sub> rpm</b>	6600
<b>Moment of inertia J 10?? Kgm<sup>2</sup></b>	1.5
<b>Thermal time constant T<sub>th</sub> min</b>	21
<b>Voltage constant k<sub>e</sub> V<sub>s</sub></b>	0.42
<b>Torque constant k<sub>t</sub> Nm/A</b>	0.73
<b>Resistance phase to phase (20°C) R<sub>w</sub> ?</b>	1.36
<b>Inductance phase to phase L<sub>w</sub> mH</b>	7.40
<b>B.E.M.F. @ rated speed E<sub>n</sub> Vrms</b>	264

<b>Stall current <math>I_o</math> Arms</b>	6.3
<b>Rated current <math>I_n</math> Arms</b>	4.3
<b>Peak current <math>I_{pk}</math> Arms</b>	28.8
<b>Connection type/size</b>	7/1
<b>Weight kg</b>	5

## Mechanical Data

<b>Design</b>	Aluminium
<b>Degree of protection</b>	IP 65
<b>Bearings DE</b>	6204
<b>Bearings NDE</b>	6003
<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>	10
<b>Thermal protection threshold <math>\theta_{max}</math> °C</b>	140