

Winding Type



-C

Coil Dependent Parameters

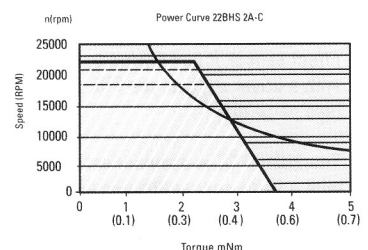
Phase/phase resistance	ohm	19.80
Phase/phase inductance	mH	0.76
Back-EMF constant	V/1000 rpm	1.52
Torque Constant	mNm/A (oz.-in/A)	14.5
Dynamic Parameters		
Rated Voltage	V	12
No-load Current	mA	96
No-load Speed	rpm	6'600
Max. continuous stall torque	mNm (oz-in)	7.4
Max. continuous stall current	A	0.51
Max. continuous torque at 10 krpm & 25 °C	mNm (oz-in)	5.2
Max. continuous current at 10 krpm & 25 °C	A	0.5
Max. continuous power at 10 krpm & 25 °C	W	4.4

Intrinsic Parameters

Motor constant	mNm/W ^{1/2} (oz-in/W ^{1/2})	3.3
Rotor inertia	kgm ² 10 ⁻⁷	1.6
Mechanical time constant	ms	15.1
Electrical time constant	ms	0.04
Thermal resistance	°C/W	14

- Motor with preloaded ball bearings
- Typical preload = 5.5 N
- Maximum external load:
 - axial static 23 N (without shaft support)
 - axial dynamic 5 N
 - radial dynamic 10 N
- Operating temperature range -30°C to 80°C
- Max. rated coil temperature 125°C

- Minimum supply voltage: 3.5 volts
- Maximum supply voltage: 15 volts
- Max continuous current before electronic damage: 2.6 amps
- Wrong polarity will destroy the electronic



Values at the output shaft

Recommended planetary gearhead: R22, M22 (see page 239 & 240)