Product Details

Brush DC Motor

8542A004-R1-SP

Note: Product photo is for illustrative purposes. Please refer to Engineering Drawing for specifics.

Motor Series	Series 8540 LO-COG Brush Commutated DC Motors
Price (USD)	$115.72
Frame Size (Mounting Face) (in)	1.181
Motor Frame Size (in)	1.181
Gear Frame Size (in)	n/a
Overall Body Length (in)	2.585
Supply Voltage (V)	24
Continuous Output Torque (oz-in)	5.6
Output Speed @ Cont. Torque (RPM)	5310
Current @ Cont. Torque (A)	1.6
Continuous Output Power (W)	22
No Load Current (A)	0.22
No Load Output Speed (RPM)	7050
Peak Current (A)	7.2
Peak Output Torque (oz-in)	31
Motor Constant (oz-in/√W)	2.44
Motor Torque Constant (oz-in/A)	4.46
Motor Voltage Constant (V/krpm)	3.3
Terminal Resistance (Ohms)	3.33
Inductance (mH)	3.2
Coulomb Friction Torque (oz-in)	0.6
Viscous Damping Factor (oz-in/krpm)	0.036
Electrical Time Constant (ms)	0.95
Mechanical Time Constant (ms)	12
Thermal Time Constant (min)	13
Thermal Resistance (ºC/Watt)	14
Maximum Winding Temperature (ºC)	155
Rotor Inertia (oz-in-s2)	0.00052
Output Bearing	Ball
Gear Series	n/a
Gear Ratio (xx.x:1)	n/a
Gear Type	n/a
Gear Efficiency	n/a
Gear Maximum Torque (oz-in)	n/a
Encoder Series	n/a
Encoder Resolution (CPR)	n/a
Encoder Output Channels	n/a
Weight (Mass) (oz)	6.1
Voltage Note	n/a
Torque Warning	n/a