

Poly-Scientific

Motor Application Form

Please complete this form to tell us about your motor specifications. We'll contact you with information about the motor that matches your application.

(There's a [conversion chart](#) included on this form for your convenience!)

Please provide the following information:

First name	<input type="text"/>	Last name	<input type="text"/>
Function	<input type="checkbox"/> Procurement <input type="checkbox"/> Engineering <input type="checkbox"/> Other: (please describe)		
	<input type="text"/>		
Organization	<input type="text"/>		
Street address	<input type="text"/>		
Address (cont.)	<input type="text"/>		
City	<input type="text"/>		
State/Province	<input type="text"/>	Zip/Postal code	<input type="text"/>
Country	<input type="text"/>		
Work Phone	<input type="text"/>	FAX	<input type="text"/>
E-mail	<input type="text"/>		

Please provide as much information as possible, enter NA for those questions that are not critical or important to you. Do not be concerned if you do not have all of the specifications that are requested, we are happy to work with as little or as much information as you can provide. However, the more complete your response, the more thorough our analysis.

Select which category best describes your application:

- | | | |
|---|---|---|
| <input type="radio"/> Actuators | <input type="radio"/> Food Processing | <input type="radio"/> Industrial Automation |
| <input type="radio"/> Machining Tools | <input type="radio"/> Material handling | <input type="radio"/> Medical Equipment |
| <input checked="" type="radio"/> Military/Aerospace | <input type="radio"/> Packaging Equipment | <input type="radio"/> Printing |
| <input type="radio"/> Robotics | <input type="radio"/> Semiconductor Mfg. | <input type="radio"/> Textile Machinery |
| <input type="radio"/> Other: | <input type="text"/> | |

Please give us a description of your application:

Type of motor:

This application is: New Retrofit/replacement

Current supplier Part number

Did you know that Poly-Scientific can also provide you with an electronic driver to go with your motor?
Would you like more information on our electronic drivers?

YES NO

Do you require: Brake Encoder

Life & usage

Estimated annual usage

Estimated life of program

Price target

Production start date/Delivery time frame

If a new design is required, is there funding available to cover non-recurring engineering & tooling costs?

YES NO

Mechanical specifications:

Environmental operating conditions:
(Please include here available air flow)

(ex: submersion in water, extreme temperatures, excessive amounts of dust and/or dirt ... etc)

Method of mounting and type of mounting configuration:

Electrical specifications:

Max. speed (RPM)

Max continuous torque (oz-in)

Duty cycle

Loaded speed (RPM)

Peak torque (oz-in)

Operating temp range (° C)

Max terminal Voltage (Vdc)	<input type="text"/>	Rated current (A)	<input type="text"/>
Desired Kt	<input type="text"/>	Desired Rt	<input type="text"/>
Motor inertia (oz-in Sec ²)	<input type="text"/>	Load inertia	<input type="text"/>
Radial shaft load	<input type="text"/>	Axial shaft load	<input type="text"/>

Submit Form	Reset Form
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Conversion chart		
FROM	TO	MULTIPLY BY
LENGTH		
inches	cm	2.540
feet	cm	30.48
cm	inches	.3937
cm	feet	3.281 x 10 ⁻²
MASS		
oz	g	28.35
lb	g	453.6
g	oz	3.527 x 10 ⁻²
lb	oz	16.0
g	lb	2.205 x 10 ⁻³
oz	lb	6.250 x 10 ⁻²
TORQUE		
oz-in	g-cm	72.01
lb-ft	g-cm	1.383 x 10 ⁻⁴
g-cm	oz-in	1.389 x 10 ⁻²
lb-ft	oz-in	192.0
g-cm	lb-ft	7.233 x 10 ⁻⁵
oz-in	lb-ft	5.208 x 10 ⁻³
ROTATION		
rpm	degrees/sec	6.0
rad/sec	degrees/sec	57.30
degrees/sec	rpm	0.1667
rad/sec	rpm	9.549
degrees/sec	rad/sec	1.745 x 10 ⁻²

rpm	rad/sec	0.1047
MOMENT OF INERTIA		
oz-in ²	g-cm ²	182.9
lb-ft ²	g-cm ²	4.214 x 10 ⁵
g-cm ²	oz-in ²	5.467 x 10 ⁻³
lb-ft ²	oz-in ²	2.304 x 10 ³
g-cm ²	lb-ft ²	2.373 x 10 ⁻⁶
oz-in ²	lb-ft ²	4.340 x 10 ⁻⁴
oz-in-sec ²	g-cm ²	7.062 x 10 ⁴



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