

## Value Added

Magmotor Offers Complete Drive Packages

- Encoders
- Brakes
- Gearboxes
- Cable Assemblies
- Pulleys
- Tachometers
- Amplifiers
- Controls



## Encoder Features

- Self Gapping and Aligning
- Frequency Response to 200 khz
- Various Output Devices, Including Line Drivers

## Encoder Options

- Sample of Available Line Counts: 500, 1000, 2000.

Consult Magmotor Application Staff to satisfy your encoder requirements. Most sizes and styles available.

## Conversion Charts

**B** = A X multiply unit

### Length

A	B	mm	cm	m	in.
mm		1	0.1	0.001	0.03937
cm		10	1	0.01	0.3937
m		1000	100	1	39.37
in.		25.400	2.540	0.0254	1

### Temperature

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times \frac{5}{9}$$

### Weight

A	B	g	kg	oz.	lbs.
g		1	0.001	0.03527	0.0022046
kg		1000	1	35.274	2.2046
oz.		28.35	0.02835	1	0.0625
lbs.		453.6	0.4536	16	1

### Inertia

A	B	kg-cm <sup>2</sup>	g-cm <sup>2</sup>	oz-in <sup>2</sup>	oz-in-sec <sup>2</sup>	lb-in <sup>2</sup>	lb-in-sec <sup>2</sup>
kg-cm <sup>2</sup>		1	10 <sup>3</sup>	5.467	0.01416	0.3417	8.851 x 10 <sup>-4</sup>
g-cm <sup>2</sup>		10 <sup>3</sup>	1	5.467 x 10 <sup>3</sup>	1.416 x 10 <sup>-5</sup>	3.417 x 10 <sup>-4</sup>	8.851 x 10 <sup>-7</sup>
oz-in <sup>2</sup>		0.1829	182.9	1	2.590 x 10 <sup>-3</sup>	0.0625	1.6188 x 10 <sup>-4</sup>
oz-in-sec <sup>2</sup>		70.62	7.062 x 10 <sup>4</sup>	386.09	1	24.13	0.0625
lb-in <sup>2</sup>		2.926	2.926 x 10 <sup>3</sup>	16	0.04144	1	2.590 x 10 <sup>-3</sup>
lb-in-sec <sup>2</sup>		1.1299 x 10 <sup>3</sup>	1.129 x 10 <sup>6</sup>	6.177 x 10 <sup>3</sup>	16	386.09	1

### Torque

A	B	N-m	N-cm	kg-cm	g-cm	oz-in	lb-in
N-m		1	100	10.197	1.0197 x 10 <sup>4</sup>	141.6	8.851
N-cm		10 <sup>-2</sup>	1	0.10197	101.97	1.416	0.08851
kg-cm		9.807 x 10 <sup>-2</sup>	9.807	1	10 <sup>3</sup>	13.887	0.8680
g-cm		9.807 x 10 <sup>-5</sup>	9.807 x 10 <sup>-3</sup>	10 <sup>-3</sup>	1	0.01389	8.678 x 10 <sup>-4</sup>
oz-in		7.0615 x 10 <sup>-3</sup>	0.70615	0.072008	72.008	1	0.0625
lb-in		0.11299	11.229	1.1521	1.152 x 10 <sup>3</sup>	16	1

## Thank you for your interest in Magmotor products!

Please review this Catalog and select a model that appears to meet your application needs. For application specific motor solutions, call or Fax our applications department your specifications and application characteristics including:

- Bus Voltage
- Size Restrictions
- Torque Required
- Other Value Added Components
- Maximum Operating Speed
- Mechanical Requirements
- Encoder Specs

**SUBSTANTIAL DISCOUNTS  
ARE OFFERED FOR  
VOLUME PURCHASES  
ON A PER-ORDER  
OR ANNUAL  
AGREEMENT BASIS!**

## Ordering Guide

### Model Numbering Guide

□□□□	—□—	□□□	□	□□	□	□	□	□
C21	Armature	Stack	Mounting	Tachometer	B "as"	"H" as	"E" as	"G" as
C26	Winding	Length	Options	DB = 3 V/krpm	Brake	Hall	Encoder	Gear
C32	A to Z	100 as	Blank = Face Mt.	TF = 7V/krpm		Sensor	Specify	Specify
C33	and	1 in.	F = NEMA	TJ = 15V/krpm		For	Line	Ratio
C40	Special					Brushless	Count	
SR15						Motor		
S23								
S28								
B23/BF23			B / BA = Round					
BA23/BFA23			BF/BFA = Square					
B34/BF34								
BA34/BFA34								
BA42/BFA42								

Note:

B/BA = Round Body BF/BFA = Square Finned Body

Magmotor will provide detailed outline drawing to every customer for approval after an order is received and before production. Special features, such as seal and pulleys, are available for some models. Please contact Magmotor Sales and Application Staff.

Magmotor has made every effort to ensure the accuracy of all data and specifications within this Catalog. The product information contained herein is also typical and is intended for use as a reference. It is the users responsibility to determine the suitability of Magmotor motors in the users application. Magmotor reserves the right to make changes to these specifications without prior notice.

NOTE: CUSTOM MOTOR QUANTITIES LESS THAN 15 UNITS WILL BE SUBJECT TO A NON-RECURRING ENGINEERING CHARGE, BASED UPON MAGMOTOR PRICE SCHEDULES.

SPECS FOR OPTIONS LISTED ABOVE ARE PROVIDED AS STANDARD. MAGMOTOR WILL SUPPLY PRICING BASED ON STANDARD PRODUCT OFFERINGS UNLESS OTHERWISE SPECIFIED.

#### CUSTOM OPTIONS

SHAFT: KEYWAY SIZE  
 ENCODER: OTHER OEM MODELS AVAILABLE  
 BRAKE: OTHER OEM MODELS AVAILABLE  
 GEARBOX: OTHER OEM MODELS AVAILABLE  
 MOUNTING CONFIGURATION: CUSTOMER TO SPECIFY (SQUARE STANDARD)  
 CABLE: CUSTOMER TO SPECIFY  
 (13" FLYING LEADS STANDARD)