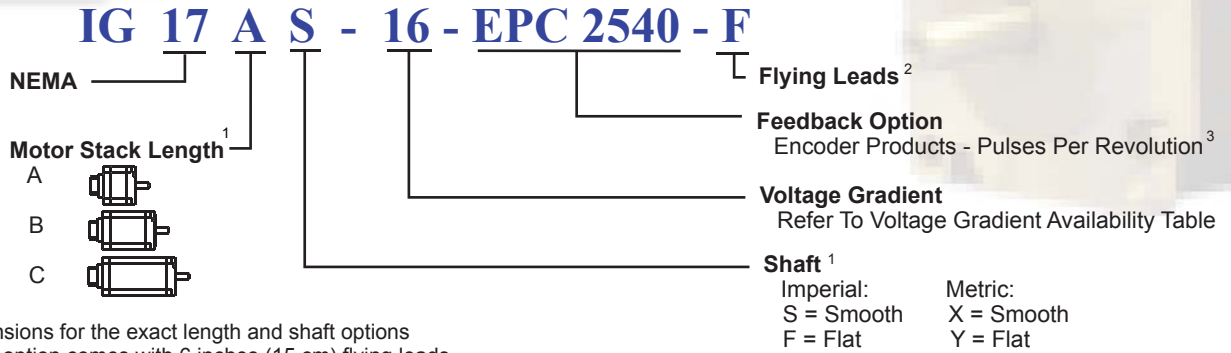


IG 17- F with EPC Feedback

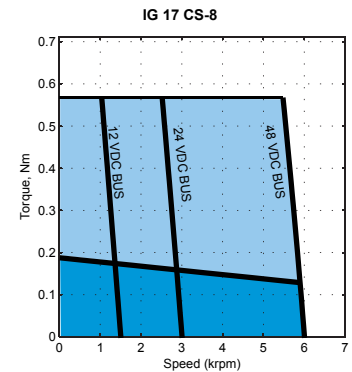
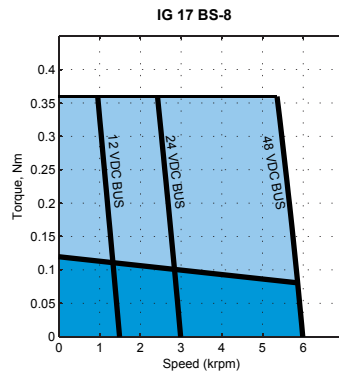
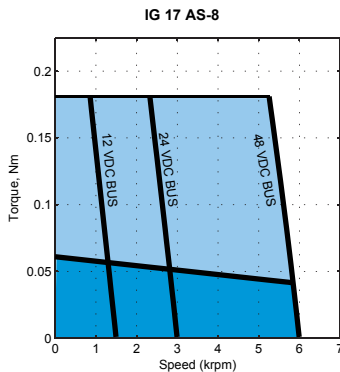
Model Numbering



Voltage Gradient

Voltage Constant K_E (V/kRPM)	4	8	11	16
Frame Size	IG 17			

Performance Curves



Contact factory for torque-speed curves of other motors

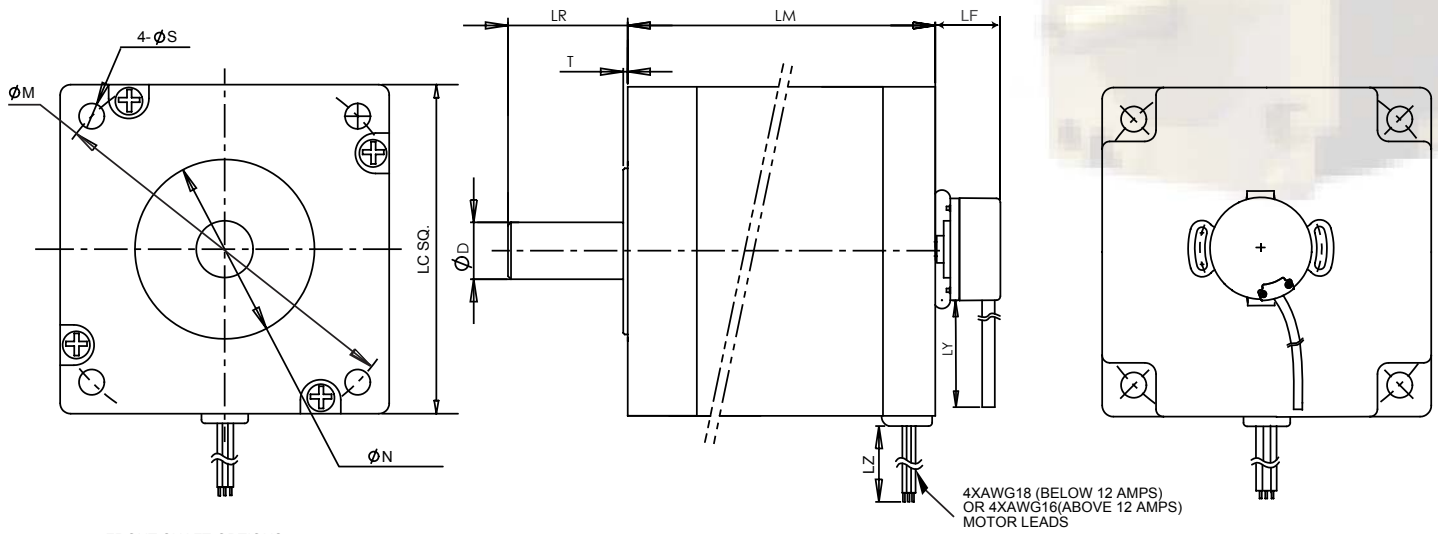
Electrical Specs

NEMA 17		Weight		Torque Constant (Peak) (L2L)		Voltage Constant	Cont. Stall Torque		Cont. Stall Current		Peak Stall Torque		Peak Stall Current	Max BEMF (Peak) (L2L)	Max Speed	L-to-L Resistance	L-to-L Inductance	Rotor Inertia	
Index	Model Number	W		K_T		K_E	T_{cs}		I_{cs}		T_P		I_P	U_{max}	n_{max}	R	L	J	
		kg	lb	Nm/A	lb-in/A	V/krpm	Nm	lb-in	A	Nm	lb-in	A	V	rpm	Ohms	mH	kg-cm ²	lb-in-sec ²	
1	IG 17 AS - 4	0.32	0.71	0.04	0.39	4.00	0.06	0.53	1.36	0.18	1.59	4.08	32.00	8000	0.62	0.53	0.13	0.00012	
2	IG 17 BS - 4	0.48	1.06	0.04	0.39	4.00	0.12	1.06	2.72	0.36	3.19	8.16	32.00	8000	0.27	0.28	0.26	0.00023	
3	IG 17 CS - 4	0.63	1.39	0.04	0.39	4.00	0.19	1.71	4.38	0.57	5.04	12.92	32.00	8000	0.14	0.13	0.39	0.00035	
4	IG 17 AS - 8	0.32	0.71	0.09	0.78	8.00	0.06	0.53	0.68	0.18	1.59	2.04	64.00	8000	2.50	2.10	0.13	0.00012	
5	IG 17 BS - 8	0.48	1.06	0.09	0.78	8.00	0.12	1.06	1.36	0.36	3.19	4.08	64.00	8000	1.05	1.00	0.26	0.00023	
6	IG 17 CS - 8	0.63	1.39	0.09	0.78	8.00	0.19	1.71	2.19	0.57	5.04	6.46	64.00	8000	0.58	0.50	0.39	0.00035	
7	IG 17 AS - 11	0.32	0.71	0.12	1.07	11.00	0.06	0.53	0.49	0.18	1.59	1.48	88.00	8000	5.90	4.70	0.13	0.00012	
8	IG 17 BS - 11	0.48	1.06	0.12	1.07	11.00	0.12	1.06	0.99	0.36	3.19	2.97	88.00	8000	2.30	2.15	0.26	0.00023	
9	IG 17 CS - 11	0.63	1.39	0.12	1.07	11.00	0.19	1.71	1.59	0.57	5.04	4.70	88.00	8000	0.70	1.25	0.39	0.00035	
10	IG 17 AS - 16	0.32	0.71	0.18	1.56	16.00	0.06	0.53	0.34	0.18	1.59	1.02	128.00	8000	10.50	8.40	0.13	0.00012	
11	IG 17 BS - 16	0.48	1.06	0.18	1.56	16.00	0.12	1.06	0.68	0.36	3.19	2.04	128.00	8000	4.10	4.00	0.26	0.00023	
12	IG 17 CS - 16	0.63	1.39	0.18	1.56	16.00	0.19	1.71	1.09	0.57	5.04	3.23	128.00	8000	1.20	2.34	0.39	0.00035	

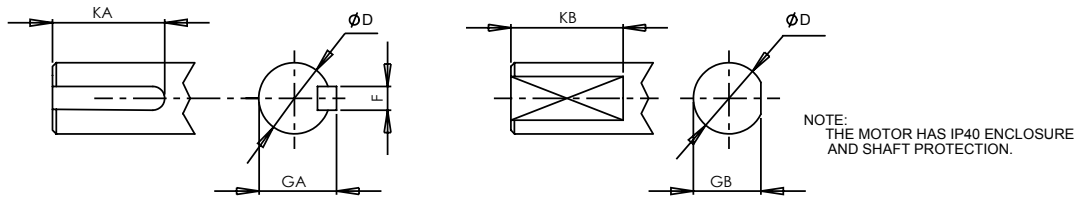
Feb, 21, 06

IG 17- F with EPC Feedback

Motor Drawing



FRONT SHAFT OPTIONS
 (1) SMOOTH SHAFT: AS SHOWN IN THE VIEWS.
 (2) KEYWAY SHAFT

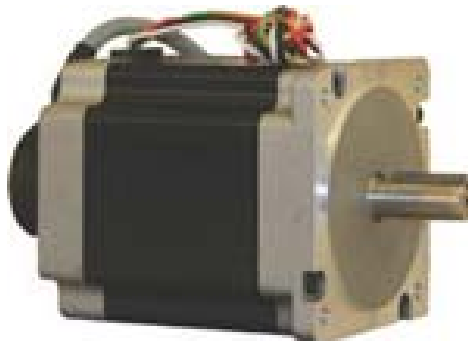


Units: Inches (mm)

IG	LM	LF	T	LR	LC	LH	LP	LY	LZ	N	S	M	
17	A	1.496 (38)	1.00 (25.4)	0.079 (2.0)	0.945 (24)	1.665 (42.3)	1.665 (42.3)	0.354 (9)	12 (304.8)	12 (304.8)	0.866 ⁰ _{-0.002} (22.00 ⁰ _{-0.05})	0.118 (3.0)	1.725 (43.815)
	B	2.126 (54)											
	C	2.756 (70)											

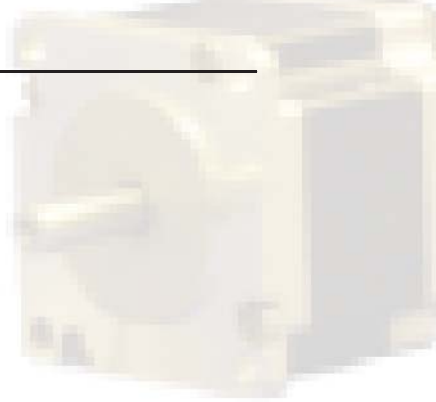
For IG17, dimension S is M3*0.5 min depth 0.2 (5.1) threaded hole

Imperial Shaft Option (S/F/K), Units: inches						Metric Shaft Option (X/Y/Z), Units: mm						
IG	D	F	GA	KA	GB	KB	D	F	GA	KA	GB	KB
17	0.1969 ⁰ _{-0.0005}	-	-	-	0.177 ⁰ _{-0.004}	0.50	5 ⁰ _{-0.013}	-	-	-	4.5 ⁰ _{-0.1}	12.7



Feb, 21, 06

IG 17- F with EPC Feedback



Power Cable Wire Code

Wire Color	Function
YEL	PHASE U
GRN	PHASE V
BLU	PHASE W
GRN/YEL	PE

Encoder Products

Encoder Products Data

Parameter	Values
Input Voltage	5 VDC \pm 10% Fixed Voltage
Input Current Requirement	100 mA max (65 mA typical) with no output load
Output Data	Incremental - Two square waves in quadrature with channel A leading B for clockwise shaft rotation as viewed from the encoder mounting face
Output Format	Line Driver - 20mA max per channel (meets RS 422 at 5 VDC)
Frequency Response	200 kHz standard, 300 kHz optional
Minimum Edge Separation	67.5° electrical
Commutation Format	8 poles
Commutation Accuracy	1° mechanical
Maximum Speed	8000 RPM
Termination	18" cable (foil and braid shield, 24 AWG conductors non-commutated, 28 AWG commutated),
Operating Temperature	-20 to +85° C standard
Storage Temperature	-25 to +85° C
Available line counts	200, 250, 256, 300, 315, 360, 400, 500, 512, 580, 600, 800, 1000, 1024, 1200, 1250, 2000, 2048, 2500, 2540

Encoder Products Wiring

Wire Color	Function
BRN	CH A
YEL	CH A-
RED	CH B
GRN	CH B-
ORN	INDEX
BLU	INDEX-
VIO	CH U
GRY	CH U-
PNK	CH V
TAN	CH V-
RED/GRN	CH W
RED/YEL	CH W-
WHT	+5VDC
BLK	GND
SHIELD	SHIELD



Encoder Products Output Waveforms

