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Motor Specifications

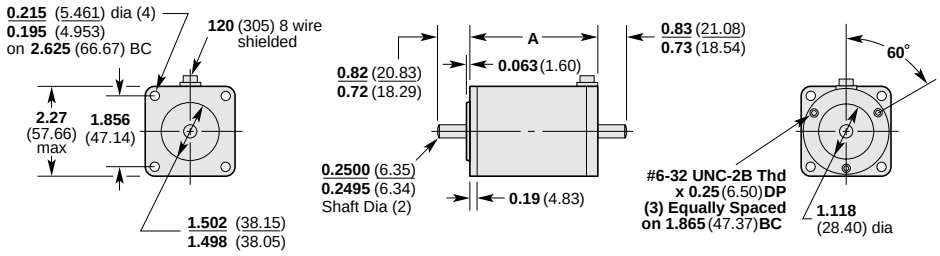
			Size 23			Size 34		
			ZETA57-51	ZETA57-83	ZETA57-102	ZETA83-62	ZETA83-93	ZETA83-135
Static torque								
oz-in			65	100	125	160	300	400
(N-m)			(0.46)	(0.71)	(0.89)	(1.14)	(2.14)	(2.80)
Rotor inertia								
oz-in^2			0.546	1.1	1.69	3.47	6.76	10.47
(kg-m^2 x 10^{-6})			(9.998)	(20.1)	(30.9)	(63.4)	(124)	(191)
Inductance								
Series	mH (small signal*)		17.37	18.5	17	10	10.5	9.2
	mH (large signal**)		26.3	26.86	24.6	14.44	15.54	13.89
Parallel	mH (small signal*)		4.34	4.62	4.25	2.5	2.62	2.3
	mH (large signal**)		6.57	6.71	6.15	3.61	3.88	3.47
Bearings								
Thrust load		lb	25	25	25	50	50	50
		(kg)	(11.3)	(11.3)	(11.3)	(22.6)	(22.6)	(22.6)
Radial load		lb	15	15	15	25	25	25
		(kg)	(6.8)	(6.8)	(6.8)	(11.3)	(11.3)	(11.3)
End play		in	0.005	0.005	0.005	0.005	0.005	0.005
Reversing load		(cm)	(0.013)	(0.013)	(0.013)	(0.013)	(0.013)	(0.013)
Equal to 1 lb								
Radial play		in	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Per 0.5 lb load		(cm)	(0.002)	(0.002)	(0.002)	(0.002)	(0.002)	(0.002)
Weight (net)								
Motor+Cable		lb	1.6	2.4	3.2	3.8	5.1	8.3
+Connector		(kg)	(0.7)	(1.1)	(1.5)	(1.7)	(2.3)	(3.8)
Motor Cable								
Wire size		AWG	24	24	24	22	22	22
		(mm^2)	(0.25)	(0.25)	(0.25)	(0.34)	(0.34)	(0.34)
All motors:	Cable length = 10 feet (3 m); attached connector is prewired for series current;							

*Small Signal Inductance is found by using an inductance bridge or meter.
**Large Signal Inductance is found by measuring actual generator AC flux linkage and generator short circuit current under dynamic conditions.

Motor Dimensions

Size 23 frame

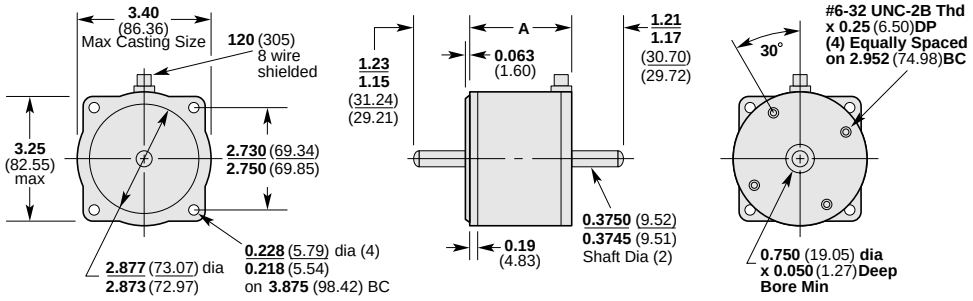
Model	A
ZETA57-51	2.0 (50.23)
ZETA57-83	3.1 (75.23)
ZETA57-102	4.0 (101.6)



ZETA Motors – Frame Size 23 Dimensions

Size 34 frame

Model	A
ZETA83-62	2.5 (62.0)
ZETA83-93	3.7 (93.98)
ZETA83-135	5.2 (129.0)



ZETA Motors – Frame Size 34 Dimensions

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