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MOTOR SPECIFICATION TABLE

MOTOR SERIES		M57			M83			M106	
MOTOR TYPE		51	83	102	62	93	135	120	178
Rotor Inertia	oz-in^2	0.48	1.28	1.75	3.50	6.70	10.2	21.5	44.0
	Kg-cm^2	.088	.234	320	0.64	1.23	1.87	3.92	8.05
Torque	oz-in	40	80	120	140	260	400	520	700
Motor Case Temp Rise: 1RPS	F°	52	58	54	54	65	61	85	81
	C°	(29)	(32)	(30)	(30)	(36)	(34)	(47)	(45)
(Free Air) 5RPS	F°	61	68	63	63	83	80	124	121
	C°	(34)	(38)	(35)	(35)	(46)	(44)	(69)	(67)
10RPS	F°	40	54	50	60	74	68	108	106
	C°	(22)	(30)	(28)	(33)	(41)	(38)	(60)	(59)
Maximum Driver Temperature Rise		18 (10)	22 (12)	25 (14)	20 (11)	38 (21)	40 (22)	36 (20)	43 (24)
Motor Case Dissipation-WATTS									
1 RPS		6	9	11	12	24	27	33	51
5 RPS		7	12	13	15	26	32	48	76
10 RPS		5	8	10	14	24	30	42	67
Max. Driver Input Current - AMPS		0.8	0.9	1.0	1.0	1.3	1.8	2.2	3.0
Motor Weight (with cable)	ozs	23	35	47	57	93	129	135	240
	(kg)	(0.65)	(0.99)	(1.33)	(1.62)	(2.64)	(3.66)	(3.83)	(6.80)

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Appendix A: Dummy Load Parameters

Motor	Inertias: Rotor $_2$ (oz-in^2)	Inertias: Dummy Load$_2$ Approx. (oz-in^2)	Dummy Load Dimensions for an Aluminum Disc: Diameter (in)	Dummy Load Dimensions for an Aluminum Disc: Thickness (in)
M57-51	0.48	2	4.00	0.063
M57-83	1.28	5	4.75	0.063
M57-102	1.75	7	4.50	0.125
M83-62	3.50	10	4.80	0.125
M83-93	6.70	15	5.30	0.125
M83-135	10.24	25	6.00	0.125
M106-120	21.50	50	7.20	0.125
M106-178	44.00	100	8.50	0.125

Note: These dummy load inertias are arbitrary and do not represent the minimum or the maximum inertias that can be applied to the motor.

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Appendix B: MINIMUM Recommended Motor Wire Sizes

Motor Series	Maximum Current per Phase (A)	Less Than 100 ft.(20.5M)	100-200 Ft. (30.5-71M)
M57	1	22	20
M83	2	20	18
M106	3	18	16

1. Cable runs of over 200 ft. (71) are not recommended.

2. Voltage drop per motor phase = (cable length (A) / 100 x 2) X R

where R = wire resistance in ohms per 100 ft.

Wire Size (AWG)	R (ohms/100 ft)
16	.4
18	.64
20	1.0
22	1.6

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