

Elmo Servo Drive and DC Motor Packages



Harmonica, Banjo, Cello, Trumpet

48VDC

85VDC

Package		100W	200W	300W	450W	30W	50W	100W	
HAR, BAN Servo Drive		5/60	8/60	12/60	12/60	2/100	2/100	2/100	
CEL, TRU Servo Drive		5/60	15/60	15/60	15/60	3/100	3/100	3/100	
Nominal Supply Voltage	Vdc	48	48	48	48	85	85	85	
Continuous Current Limit I _c (RMS) (sinusoidal commutation)*	A	HAR	3.5	5.7	8.5	8.5	1.4	1.4	1.4
		CEL	3.5	10.6	10.6	10.6	2.1	2.1	2.1
APM Servo Motor		SA01ACN-9	SB02ADK-9	SB03ADK-9	SC05ADK-9	SAR3ACN	SAR5ACN	SA01ACN	
Rated Sinusoidal RMS Current	A	2.4	4.4	7.1	9.5	1.07	1.2	1.4	
Rated Output Power	W	100	200	300	450	30	50	100	
Rated Torque (RMS)	N · m	0.32	0.64	0.95	1.43	0.10	0.16	0.32	
Maximum Torque	N · m	0.95	1.91	2.85	4.29	0.28	0.48	0.95	
BEMF	V/Krpm	8.1	9.3	9.7	9.5	7.8	10.1	12.7	
Rated / Maximum RPM	rpm	3000 / 5000				3000 / 5000			
Motor Inertia	kg · m ² × 10 ⁻⁴	40	62	62	80	0.0164	0.0240	0.0426	
Flange Size	mm	0.04	0.18	0.32	1.09	40	40	40	
Motor Weight	kg	0.52	1.11	1.63	2.49	0.3	0.4	0.52	
Feedback Resolution	P/R	2048	Incremental 5V line drive 2500 P/R			Incremental 5V Line Drive 2048P/R			

* Peak current is double continuous current.

Harmonica, Banjo, Cello, Trumpet

180VDC

Package		200W	400W	600W	900W	1500W	2000W	2700W
HAR, BAN Servo Drive		2/200	4/200	6/200	–	–	–	–
CEL, TRU Servo Drive		2/200	–	6/200	10/200	15/200	15/200	15RMS/200
Nominal Supply Voltage	Vdc	180	180	180	180	180	180	180
Continuous Current Limit I _c (RMS) (sinusoidal commutation)*	A	HAR	1.4	2.8	4.2	–	–	–
		CEL	1.11	–	4.2	7.1	10.5	10.5
APM Servo Motor		SB02ADK	SB04ADK	SC06ADK	SE09AEK	SE15AEK	SE22AEK	SE30AEK
Rated Sinusoidal RMS Current	A	1.6	2.9	3.6	5	8.23	10.5	15
Rated Output Power	W	200	400	620	920	1520	2000	2700
Rated Torque (RMS)	N · m	0.64	1.27	1.91	2.86	4.77	7	9.55
Maximum Torque	N · m	1.9	3.8	5.34	8.6	14.3	21	28.6
BEMF	V/Krpm	29.2	29.5	35.2	35.3	38.6	37.76	37.33
Rated / Maximum RPM	rpm	3000 / 5000						
Motor Inertia	kg · m ² × 10 ⁻⁴	0.182	0.321	1.09	6.66	12	17.34	22.65
Flange Size	mm	62	62	80	130	130	130	130
Motor Weight	kg	1.11	1.63	2.49	5.6	7.2	8.7	10.2
Feedback Resolution	P/R	Incremental 5V line drive 2500 P/R			Incremental 5V line drive 3000 P/R			

* Peak current is double continuous current.