

## Rating Table 2000 rpm Input, Single Reduction, Standard Backlash

Frame Size	Ratio	11		17		29		35		47		59		71	
	Output rpm	182		118		69.0		57.1		42.6		33.9		28.2	
A03	Input HP   kW	0.92	0.68	0.82	0.61	0.51	0.38	0.47	0.35	0.33	0.25	0.25	0.18	0.17	0.12
	T1 lb-in   Nm	285	32.3	390	44.5	420	47.4	460	52.2	440	49.7	410	46.8	330	37.5
	T2 lb-in   Nm	521	58.8	724	81.7	769	86.8	847	95.6	802	90.5	764	86.3	608	68.6
A07	Input HP   kW	1.22	0.91	1.09	0.81	0.68	0.51	0.62	0.46	0.44	0.33	0.33	0.25	0.22	0.16
	T1 lb-in   Nm	381	43.0	530	59.4	560	63.2	620	69.5	590	66.3	550	62.4	440	50.1
	T2 lb-in   Nm	521	58.8	724	81.7	769	86.8	847	95.6	802	90.5	764	86.3	608	68.6
B03	Input HP   kW	2.17	1.62	1.53	1.14	1.08	0.81	0.86	0.64	0.61	0.46	0.48	0.36	0.39	0.29
	T1 lb-in   Nm	676	76.4	736	83.2	890	101	856	96.7	813	91.9	805	90.9	779	88.0
	T2 lb-in   Nm	1,690	191	1,840	208	2,230	251	2,140	242	2,030	230	2,010	227	1,950	220
B07	Input HP   kW	3.40	2.54	2.40	1.79	1.70	1.27	1.35	1.00	0.96	0.71	0.75	0.56	0.60	0.45
	T1 lb-in   Nm	1,060	120	1,160	131	1,400	158	1,340	151	1,280	144	1,250	141	1,220	137
	T2 lb-in   Nm	1,910	216	1,910	216	2,600	294	2,600	294	2,600	294	2,600	294	2,600	294
C03	Input HP   kW	5.02	3.75	3.87	2.89	2.41	1.80	2.22	1.65	1.53	1.14	1.22	0.91	1.02	0.76
	T1 lb-in   Nm	1,570	177	1,870	211	1,990	224	2,200	249	2,050	231	2,050	231	2,050	231
	T2 lb-in   Nm	3,930	442	4,680	527	4,980	561	5,500	621	5,130	578	5,130	578	5,130	578
C07	Input HP   kW	7.38	5.51	6.43	4.79	4.02	3.00	3.69	2.75	2.56	1.91	2.04	1.52	1.69	1.26
	T1 lb-in   Nm	2,300	260	3,100	350	3,300	373	3,660	414	3,420	386	3,420	386	3,410	385
	T2 lb-in   Nm	3,820	431	5,210	588	6,080	686	6,080	686	6,080	686	6,080	686	6,080	686
D03	Input HP   kW	10.4	7.78	9.84	7.34	6.21	4.64	5.50	4.10	4.10	3.06	3.15	2.35	2.50	1.86
	T1 lb-in   Nm	3,250	367	4,740	536	5,110	577	5,460	617	5,460	617	5,260	595	5,020	568
	T2 lb-in   Nm	8,130	919	9,550	1,080	12,600	1,420	12,600	1,420	12,600	1,420	12,600	1,420	12,600	1,420
D07	Input HP   kW	16.3	12.16	13.62	10.2	8.60	6.41	7.62	5.69	5.68	4.23	4.35	3.24	3.46	2.58
	T1 lb-in   Nm	5,080	574	6,570	742	7,070	799	7,570	855	7,570	855	7,280	822	6,960	786
	T2 lb-in   Nm	9,550	1,080	9,550	1,080	12,600	1,420	12,600	1,420	12,600	1,420	12,600	1,420	12,600	1,420
E03	Input HP   kW	24.0	17.9	18.8	14.0	13.9	10.4	11.6	8.65	7.71	5.75	6.34	4.73	4.93	3.68
	T1 lb-in   Nm	7,490	846	9,100	1,024	11,400	1,290	11,500	1,300	10,300	1,160	10,600	1,200	9,900	1,120
	T2 lb-in   Nm	15,700	1,770	22,800	2,560	28,500	3,230	28,800	3,250	25,800	2,900	26,500	3,000	24,800	2,800
E07	Input HP   kW	31.3	23.3	27.7	20.7	23.1	17.2	19.1	14.2	12.80	9.55	10.5	7.83	8.16	6.09
	T1 lb-in   Nm	9,760	1,103	13,400	1,510	19,000	2,150	19,000	2,140	17,100	1,930	17,600	1,990	16,400	1,860
	T2 lb-in   Nm	15,700	1,770	23,600	2,660	31,200	3,520	31,200	3,520	31,200	3,520	31,200	3,520	31,200	3,520
F03	Input HP   kW	38.8	28.9	36.0	26.9	30.8	23.0	26.9	20.1	19.5	14.6	14.8	11.06	12.3	9.18
	T1 lb-in   Nm	12,100	1,366	17,400	1,960	25,300	2,860	26,700	3,020	26,000	2,940	24,800	2,800	24,800	2,800
	T2 lb-in   Nm	30,300	3,420	43,500	4,900	63,300	7,150	65,100	7,350	65,000	7,340	62,000	7,000	62,000	7,000
F07	Input HP   kW	51.0	38.0	47.4	35.4	40.5	30.2	35.4	26.4	25.7	19.2	19.5	14.5	16.2	12.1
	T1 lb-in   Nm	15,900	1,800	22,900	2,580	33,300	3,760	35,100	3,970	34,300	3,870	32,600	3,690	32,600	3,690
	T2 lb-in   Nm	39,800	4,500	52,100	5,880	65,100	7,350	65,100	7,350	65,100	7,350	65,100	7,350	65,100	7,350

Notes:

- T1 - Nominal output torque - unit can continuously sustain this torque value without overheating.
- T2 - Emergency stop output torque - unit can sustain this torque value 1000 cycles before breaking.
- Acceleration torque is 1.5 times nominal output torque.
- Backlash specification is approximately 10 (60 arc-min).

**Rating Table** 2000 rpm Input, Single Reduction, Precision Backlash (less than 6 arc-min)

Frame Size	Ratio	11		17		29		35		47		59		71	
	Output rpm	182		118		69.0		57.1		42.6		33.9		28.2	
B03	Input HP   kW	<b>1.91</b>	1.43	1.55	1.16	0.96	0.71	0.76	0.56	0.53	0.39	0.43	0.32	0.34	0.25
	T1 lb-in   Nm	<b>597</b>	67.5	747	84.4	786	88.8	751	84.9	701	79.2	716	80.9	682	77.0
	T2 lb-in   Nm	<b>1,490</b>	169	1,870	211	1,960	222	1,880	212	1,750	198	1,790	202	1,700	193
B07	Input HP   kW	<b>2.55</b>	1.90	2.07	1.54	1.27	0.95	1.01	0.75	0.70	0.52	0.57	0.43	0.45	0.34
	T1 lb-in   Nm	<b>796</b>	89.9	996	113	1,050	118	1,000	113	935	106	955	108	909	103
	T2 lb-in   Nm	<b>1,910</b>	216	1,910	216	2,600	294	2,500	283	2,340	264	2,390	270	2,270	257
C03	Input HP   kW	<b>3.90</b>	2.91	3.61	2.69	2.26	1.69	2.08	1.55	1.44	1.08	1.15	0.86	0.95	0.71
	T1 lb-in   Nm	<b>1,220</b>	138	1,740	197	1,860	210	2,060	233	1,920	217	1,920	217	1,920	217
	T2 lb-in   Nm	<b>3,050</b>	344	4,350	492	4,650	526	5,150	582	4,800	543	4,800	543	4,800	542
C07	Input HP   kW	<b>5.20</b>	3.88	4.81	3.59	3.02	2.25	2.77	2.06	1.92	1.43	1.53	1.14	1.27	0.95
	T1 lb-in   Nm	<b>1,620</b>	183	2,320	262	2,480	280	2,750	310	2,560	290	2,560	290	2,560	289
	T2 lb-in   Nm	<b>3,820</b>	458	5,210	588	6,080	686	6,080	686	6,080	686	6,080	686	6,080	686
D03	Input HP   kW	<b>9.16</b>	6.83	7.21	5.38	4.55	3.40	4.04	3.01	3.01	2.24	2.30	1.72	1.83	1.36
	T1 lb-in   Nm	<b>2,860</b>	323	3,470	393	3,740	423	4,010	453	4,010	453	3,850	435	3,680	416
	T2 lb-in   Nm	<b>7,150</b>	807	8,680	981	9,350	1,060	10,000	1,130	10,000	1,130	9,630	1,090	9,200	1,040
D07	Input HP   kW	<b>12.2</b>	9.11	9.61	7.17	6.07	4.53	5.38	4.01	4.01	2.99	3.07	2.29	2.44	1.82
	T1 lb-in   Nm	<b>3,810</b>	431	4,630	523	4,990	564	5,340	603	5,340	603	5,140	580	4,910	555
	T2 lb-in   Nm	<b>9,530</b>	1,076	9,550	1,080	12,500	1,410	12,600	1,420	12,600	1,420	12,600	1,420	12,300	1,390
E03	Input HP   kW	<b>17.5</b>	13.1	15.6	11.6	13.0	9.71	10.8	8.05	7.22	5.39	5.94	4.43	4.59	3.42
	T1 lb-in   Nm	<b>5,470</b>	618	7,500	849	10,700	1,210	10,700	1,210	9,600	1,090	9,900	1,120	9,200	1,040
	T2 lb-in   Nm	<b>13,700</b>	1,540	18,800	2,120	26,800	3,030	26,800	3,030	24,000	2,730	24,800	2,800	23,000	2,600
E07	Input HP   kW	<b>23.4</b>	17.4	20.8	15.5	17.4	13.0	14.4	10.7	9.63	7.19	7.92	5.91	6.12	4.57
	T1 lb-in   Nm	<b>7,290</b>	824	10,010	1,130	14,300	1,610	14,300	1,610	12,800	1,450	13,300	1,500	12,300	1,390
	T2 lb-in   Nm	<b>18,200</b>	2,060	23,600	2,660	31,200	3,520	31,200	3,520	31,200	3,520	31,200	3,520	30,800	3,480
F03	Input HP   kW	<b>27.0</b>	20.2	26.7	19.9	22.8	17.0	19.9	14.8	14.4	10.8	11.0	8.17	9.11	6.79
	T1 lb-in   Nm	<b>8,440</b>	953	12,900	1,450	18,700	2,120	19,700	2,230	19,300	2,180	18,300	2,070	18,300	2,070
	T2 lb-in   Nm	<b>21,100</b>	2,380	32,300	3,630	46,800	5,300	49,300	5,580	48,300	5,450	45,800	5,180	45,800	5,180
F07	Input HP   kW	<b>36.1</b>	26.9	35.6	26.5	30.3	22.6	26.5	19.8	19.3	14.4	14.6	10.9	12.1	9.06
	T1 lb-in   Nm	<b>11,200</b>	1,270	17,200	1,940	25,000	2,820	26,300	2,970	25,700	2,900	24,400	2,760	24,400	2,760
	T2 lb-in   Nm	<b>28,000</b>	3,180	43,000	4,850	62,500	7,050	65,100	7,350	65,100	7,350	61,000	6,900	61,000	6,900

Notes:

- T1 - Nominal output torque - unit can continuously sustain this torque value without overheating.
- T2 - Emergency stop output torque - unit can sustain this torque value 1000 cycles before breaking.
- Acceleration torque is 1.5 times nominal output torque.

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## Rating Table 3000 rpm Input, Single Reduction, Standard Backlash

Frame Size	Ratio	11		17		29		35		47		59		71	
	Output rpm	273		176		103		85.7		63.8		50.8		42.3	
B03	Input HP   kW	2.17	1.62	1.53	1.14	1.08	0.81	0.86	0.64	0.61	0.46	0.48	0.36	0.39	0.29
	T1 lb-in   Nm	451	50.9	491	55.4	593	67.1	571	64.5	542	61.2	536	60.6	432	58.7
	T2 lb-in   Nm	1,130	127	1,230	139	1,480	168	1,430	161	1,360	153	1,340	152	1,080	147
B07	Input HP   kW	3.40	2.54	2.40	1.79	1.70	1.27	1.35	1.00	0.96	0.71	0.75	0.56	0.60	0.45
	T1 lb-in   Nm	708	79.9	770	87.0	930	105	890	101	850	107	833	105	810	102
	T2 lb-in   Nm	1,770	200	1,930	218	2,330	263	2,230	251	2,130	267	2,080	261	2,030	254
C03	Input HP   kW	5.02	3.75	3.87	2.89	2.41	1.80	2.22	1.65	1.53	1.14	1.22	0.91	1.02	0.76
	T1 lb-in   Nm	1,040	118	1,240	141	1,320	150	1,470	166	1,360	154	1,360	154	1,360	154
	T2 lb-in   Nm	2,600	295	3,100	351	3,300	374	3,680	414	3,400	385	3,400	385	3,400	385
C07	Input HP   kW	7.38	5.51	6.43	4.79	4.02	3.00	3.69	2.75	2.56	1.91	2.04	1.52	1.69	1.26
	T1 lb-in   Nm	1,540	173	2,070	233	2,200	249	2,440	276	2,280	286	2,280	286	2,270	285
	T2 lb-in   Nm	3,850	434	5,180	583	5,500	622	6,100	690	5,700	715	5,700	715	5,680	713
D03	Input HP   kW	10.4	7.78	9.84	7.34	6.21	4.64	5.50	4.10	4.10	3.06	3.15	2.35	2.50	1.86
	T1 lb-in   Nm	2,170	245	3,160	357	3,410	385	3,640	411	3,640	411	3,510	397	3,350	378
	T2 lb-in   Nm	5,430	612	7,900	893	8,530	962	9,100	1,030	9,100	1,030	8,780	991	8,380	946
D07	Input HP   kW	16.3	12.2	13.6	10.2	8.60	6.41	7.62	5.69	5.68	4.23	4.35	3.24	3.46	2.58
	T1 lb-in   Nm	3,390	383	4,380	495	4,710	533	5,040	570	5,040	633	4,850	609	4,640	582
	T2 lb-in   Nm	8,480	957	11,000	1,240	11,800	1,330	12,600	1,420	12,600	1,580	12,100	1,520	11,600	1,460

Notes:

T1 - Nominal output torque - unit can continuously sustain this torque value without overheating.

T2 - Emergency stop output torque - unit can sustain this torque value 1000 cycles before breaking.

Acceleration torque is 1.5 times nominal output torque.

Backlash specification is approximately 10 (60 arc-min).

## Rating Table 3000 rpm Input, Single Reduction, Precision Backlash (less than 6 arc-min)

Frame Size	Ratio	11		17		29		35		47		59		71	
	Output rpm	273		176		103		85.7		63.8		50.8		42.3	
B03	Input HP   kW	1.91	1.43	1.55	1.16	0.96	0.71	0.76	0.56	0.53	0.39	0.43	0.32	0.34	0.25
	T1 lb-in   Nm	398	45.0	498	56.3	524	59.2	501	56.6	467	52.8	478	54.0	378	51.4
	T2 lb-in   Nm	1,000	112	1,250	141	1,310	148	1,250	141	1,170	132	1,190	135	940	128
B07	Input HP   kW	2.55	1.90	2.07	1.54	1.27	0.95	1.01	0.75	0.70	0.52	0.57	0.43	0.45	0.34
	T1 lb-in   Nm	531	60.0	664	75.0	698	78.9	668	75.4	623	78.2	637	79.9	606	76.1
	T2 lb-in   Nm	1,330	150	1,660	188	1,750	197	1,670	189	1,560	196	1,590	200	1,520	190
C03	Input HP   kW	3.90	2.91	3.61	2.69	2.26	1.69	2.08	1.55	1.44	1.08	1.15	0.86	0.95	0.71
	T1 lb-in   Nm	811	91.7	1,160	131	1,240	140	1,370	155	1,280	145	1,280	145	1,280	144
	T2 lb-in   Nm	2,030	229	2,900	328	3,100	350	3,430	388	3,200	362	3,200	362	3,200	361
C07	Input HP   kW	5.20	3.88	4.81	3.59	3.02	2.25	2.77	2.06	1.92	1.43	1.53	1.14	1.27	0.95
	T1 lb-in   Nm	1,080	122	1,550	175	1,650	187	1,830	207	1,710	214	1,710	214	1,710	214
	T2 lb-in   Nm	2,700	306	3,880	437	4,130	467	4,580	517	4,280	536	4,280	536	4,280	535
D03	Input HP   kW	9.16	6.83	7.21	5.38	4.55	3.40	4.04	3.01	3.01	2.24	2.30	1.72	1.83	1.36
	T1 lb-in   Nm	1,910	215	2,320	262	2,500	282	2,670	302	2,670	302	2,570	290	2,450	277
	T2 lb-in   Nm	4,780	538	5,800	654	6,250	705	6,680	754	6,680	754	6,430	725	6,130	693
D07	Input HP   kW	12.2	9.11	9.61	7.17	6.07	4.53	5.38	4.01	4.01	2.99	3.07	2.29	2.44	1.82
	T1 lb-in   Nm	2,540	287	3,090	349	3,330	376	3,560	402	3,560	447	3,420	430	3,270	411
	T2 lb-in   Nm	6,350	718	7,730	872	8,330	940	8,900	1,010	8,900	1,120	8,550	1,070	8,180	1,030

Notes:

T1 - Nominal output torque - unit can continuously sustain this torque value without overheating.

T2 - Emergency stop output torque - unit can sustain this torque value 1000 cycles before breaking.

Acceleration torque is 1.5 times nominal output torque.