SINGLE REDUCTION REDUCERS HORSEPOWER AND TORQUE RATINGS

The horsepower/torque rating values shown apply to all Single reduction series regardless of model. The values are all published at AGMA service factor 1.0, but may be modified from time to time by the use of a different service factor. Listed here are the maximum torque in inch-pounds and output horsepower values for all standard ratios at specified input speeds.

The effective service factor of any unit selected is the product of the rated gearbox input horsepower divided by the horsepower rating of the motor used.

The efficiency of the unit, is the output horsepower

divided by the input horsepower. Other manufacturers do not derate this much, if at all, so use caution in comparisons.

The horsepower value of the electric motor used should never exceed the published input horsepower in the following tables unless a service factor less than 1.0 is appropriate (very light duty applications).

When table output torque ratings are the same for different input RPM's, the output shaft torque limitations have been reached. To stay within design limitations, torque becomes a constant and input horsepower must be reduced as RPM is lowered.

RATIO	1800 RPM INPUT SPEED			1200 RPM INPUT SPEED			900 RPM INPUT SPEED			600 RPM INPUT SPEED			300 RPM INPUT SPEED			100 RPM INPUT SPEED		
	ln. HP	Out HP	OUTPUT	in. HP	Out HP	OUTPUT	In. HP	Out HP		In. HP	Out HP		In. HP	Out HP	OUTPUT	In. HP	Out HP	OUTPUT
5	1.24	1.17	204	1.00	.915	240	.836	.755	264	.649	.572	300	.341	.286	300	.121	.095	299
10	.91	.82	285	.74	.640	336	.616	.527	369	.473	.401	422	.253	.201	422	.088	.070	443
15	.77	.68	356	.39	.339	267	.308	.276	290	.264	.238	375	.143	.125	395	.066	.044	415
20	.42	.34	237	.33	.263	277	.286	.213	299	.220	.163	342	.143	.100	422	.055	.035	443
25	.47	.38	329	.30	.226	296	.242	.176	307	.176	.125	329	.099	.063	329	.033	.023	356
30	.47	.35	369	.37	.263	415	.297	.201	422	.220	.138	435	.110	.063	395	.033	.020	379
40	.29	.19	263	.23	.150	316	.198	.125	351	.154	.088	369	.099	.050	422	.033	.018	443
50	.28	.18	307	.22	.138	362	.187	.113	395	.143	.075	395	.077	.038	395	.033	.015	474
60	.22	.13	263	.18	.100	316	.154	.075	316	.121	.063	395	.077	.038	474	.033	.014	522

Size 40 U Single Reduction Models, 1 9/16 inch center distance. Torque in Inch-Pounds

Size 45 U Single Reduction Models, 1 3/4 inch center distance. Torque in Inch-Pounds

RATIO	1800 RPM INPUT SPEED				200 R PUT S	and the second		900 RI PUT SI	a second s		600 R PUT S			300 RI PUT SI		100 RPM INPUT SPEED		
	In. HP	Out HP		In. HP	Out HP	OUTPUT	In. HP	Out HP	OUTPUT TORQUE	In. HP	Out HP	OUTPUT	In. HP	Out HP	OUTPUT	In. HP	Out HP	OUTPUT
5	1.77	1.54	269	1.49	1.27	334	1.17	.979	343	.77	.641	337	.44	.350	367	.17	.128	404
10	1.19	1.03	359	.96	.83	435	.74	.630	441	.48	.408	429	.25	.209	439	.12	.079	500
15	.89	.72	380	.68	.56	441	.54	.431	453	.35	,280	441	.19	.143	451	.09	.054	507
20	.66	.49	343	.52	.37	392	.44	.315	441	.33	.245	514	.17	.121	508	.10	.051	647
30	.56	.42	441	.43	.32	496	.31	.220	462	.23	.163	514	.13	.099	624	.08	.034	639
40	.36	.26	359	.30	.20	416	.23	.154	431	.15	.099	416	.10	.066	555	.07	.024	617
50	.33	.21	367	.26	.16	429	.21	.121	424	.14	.077	404	.08	.055	578	.06	.020	625
60	.25	.15	324	.20	.11	347	.18	.099	416	.12	.068	428	.07	.044	555	.04	.014	529

Size 50 All Single Reduction Models, 1 31/32 inch center distance. Torque in Inch-Pounds

RATIO	1800 RPM INPUT SPEED			1200 RPM INPUT SPEED			900 RPM INPUT SPEED			600 RPM INPUT SPEED			300 RPM INPUT SPEED			100 RPM INPUT SPEED		
	In. HP	Out HP	OUTPUT TORQUE	In. HP	Out HP	OUTPUT TORQUE	In. HP	Out HP	OUTPUT									
5	2.20	2.10	367	1.77	1.64	432	1.36	1.24	433	.913	.816	429	.473	.420	441	.165	.121	382
10	1.63	1.49	522	1.33	1.18	621	1.03	.79	631	.702	.601	631	.365	.300	631	.129	.100	631
15	1.22	1.07	560	.96	.80	631	.73	.60	631	.502	.400	631	.264	.200	631	.095	.067	631
20	.73	.63	439	.58	.48	503	.48	.39	541	.343	.275	577	.195	.145	631	.072	.050	631
25	.84	.61	538	.69	.48	631	.54	.36	631	.378	.240	631	.208	.120	631	.079	.040	631
30	.77	.59	619	.56	.40	630	.43	.30	631	.304	.200	631	.165	.100	631	.062	.033	631
40	.50	.36	509	.41	.29	598	.33	.23	631	.233	.150	631	.127	.075	631	.047	.025	631
50	.44	.29	505	.37	.22	586	.34	.18	631	.224	.120	631	.124	.060	631	.048	.020	631
60	.36	.24	501	.30	.18	577	.25	.15	616	.177	.100	631	.097	.050	631	.036	.017	631
70	.25	.14	338	.22	.11	387	.20	.09	430	.163	.066	489	.102	.036	535	.044	.013	553