REDUCER SIZE
924

SINGLE REDUCTION HORSEPOWER AND TORQUE RATINGS

WINSMITH

2.375 CENTER DISTANCE

HORSEPOWER AND TORQUE RATINGS (INCH POUNDS)

RATIO[1]	INPUT RPM[2]	OUTPUT RPM	MECHANICAL[3] 1.00 SERVICE FACTOR INPUT HP	1.00 SF OUTPUT HP	1.00 SF OUTPUT TORQUE	1.00 SF EFF[6]	1.25 SF INPUT HP	1.25 SF OUTPUT TORQUE	1.50 SF INPUT HP	1.50 SF OUTPUT TORQUE	1.75 SF INPUT HP	1.75 SF OUTPUT TORQUE	THERMAL[4] INPUT HP	THERMAL[4] OUTPUT TORQUE	SYNTHETIC OIL MECHANICAL[5] INPUT HP	SYNTHETIC OIL MECHANICAL[5] OUTPUT TORQUE	SYNTHETIC OIL MECHANICAL[5] EFF[6]	SYNTHETIC OIL THERMAL INPUT HP	SYNTHETIC OIL THERMAL OUTPUT TORQUE
4 (4)	2500	625	5.79	5.44	548	94	4.65	439	3.89	365	3.35	313	3.72	350	5.68	548	96	5.68	548
	1750	438	4.85	4.53	653	94	3.89	522	3.25	435	2.79	373	3.77	506	4.74	653	96	4.74	653
	1160	290	4.17	3.86	840	93	3.34	672	2.79	560	2.39	480	3.48	700	4.05	840	95	4.05	840
	870	218	3.56	3.28	950	92	2.85	760	2.38	633	2.05	543	3.21	856	3.45	950	95	3.45	950
	600	150	2.79	2.54	1066	91	2.23	853	1.86	711	1.60	609	2.79	1066	2.69	1066	94	2.69	1066
	300	75	1.62	1.44	1212	89	1.30	969	1.08	808	0.93	692	1.62	1212	1.55	1212	93	1.55	1212
	100	25	0.61	0.52	1320	86	0.49	1056	0.41	880	0.35	754	0.61	1320	0.57	1320	92	0.57	1320
5 (5)	2500	500	5.08	4.70	593	93	4.08	474	3.41	395	2.94	339	3.79	440	4.96	593	95	4.96	593
	1750	350	4.38	4.03	726	92	3.52	581	2.94	484	2.53	415	3.72	616	4.26	726	95	4.26	726
	1160	232	3.68	3.35	911	91	2.95	729	2.46	607	2.12	521	3.38	835	3.56	911	94	3.56	911
	870	174	3.18	2.87	1039	90	2.55	831	2.13	693	1.82	594	3.10	1012	3.06	1039	94	3.06	1039
	600	120	2.51	2.24	1174	89	2.01	939	1.68	783	1.44	671	2.51	1174	2.40	1174	93	2.40	1174
	300	60	1.48	1.28	1345	87	1.19	1076	0.99	897	0.85	768	1.48	1345	1.40	1345	92	1.40	1345
	100	20	0.57	0.47	1472	83	0.45	1178	0.38	982	0.32	841	0.56	1472	0.52	1472	90	0.52	1472
7½ (7½)	2500	333	3.98	3.63	686	91	3.20	549	2.68	457	2.31	392	3.27	562	3.87	686	94	3.87	686
	1750	233	3.41	3.09	834	91	2.74	668	2.29	556	1.97	477	3.20	784	3.30	834	94	3.30	834
	1160	155	2.80	2.51	1022	90	2.24	818	1.88	681	1.61	584	2.80	1022	2.69	1022	93	2.69	1022
	870	116	2.34	2.08	1129	89	1.88	903	1.57	753	1.35	645	2.34	1129	2.24	1129	93	2.24	1129
	600	80	1.80	1.57	1239	87	1.44	991	1.20	826	1.03	708	1.80	1239	1.71	1239	92	1.71	1239
	300	40	1.03	0.87	1373	85	0.82	1099	0.69	916	0.59	785	1.03	1373	0.96	1373	91	0.96	1373
	100	13	0.38	0.31	1471	82	0.31	1177	0.26	981	0.22	841	0.38	1471	0.35	1471	89	0.35	1471
10 (10)	2500	250	3.18	2.85	719	90	2.56	575	2.15	479	1.85	411	2.89	652	3.08	719	93	3.08	719
	1750	175	2.77	2.48	892	89	2.23	714	1.87	595	1.61	510	2.77	892	2.67	892	93	2.67	892
	1160	116	2.20	1.95	1057	88	1.77	845	1.48	705	1.27	604	2.20	1057	2.11	1057	92	2.11	1057
	870	87	1.82	1.59	1149	87	1.46	919	1.22	766	1.05	656	1.82	1149	1.73	1149	92	1.73	1149
	600	60	1.37	1.18	1241	86	1.10	993	0.92	828	0.79	709	1.37	1241	1.30	1241	91	1.30	1241
	300	30	0.77	0.64	1353	84	0.62	1083	0.52	902	0.44	773	0.77	1353	0.72	1353	90	0.72	1353
	100	10	0.28	0.23	1433	80	0.23	1147	0.19	956	0.16	819	0.28	1433	0.26	1433	88	0.26	1433
15 (15)	2500	167	2.41	2.08	786	86	1.95	629	1.64	524	1.42	449	2.12	687	2.31	786	90	2.31	786
	1750	117	2.10	1.80	971	86	1.69	777	1.42	647	1.23	555	2.08	960	1.99	971	90	1.99	971
	1160	77	1.67	1.41	1147	84	1.35	917	1.13	764	0.97	655	1.67	1147	1.57	1147	90	1.57	1147
	870	58	1.38	1.14	1244	83	1.11	995	0.93	829	0.80	711	1.38	1244	1.29	1244	89	1.29	1244
	600	40	1.05	0.85	1342	81	0.84	1074	0.70	895	0.61	767	1.05	1342	0.97	1342	88	0.97	1342
	300	20	0.59	0.46	1461	78	0.48	1169	0.40	974	0.34	835	0.59	1461	0.54	1461	86	0.54	1461
	100	6.7	0.22	0.16	1545	74	0.18	1236	0.15	1030	0.13	883	0.22	1545	0.19	1545	84	0.19	1545
20 (20)	2500	125	1.94	1.61	813	84	1.57	650	1.32	542	1.14	465	1.76	738	1.83	813	88	1.83	813
	1750	88	1.66	1.37	988	83	1.34	790	1.13	658	0.97	564	1.66	988	1.56	988	88	1.56	988
	1160	58	1.31	1.06	1151	81	1.05	921	0.88	767	0.76	658	1.31	1151	1.21	1151	87	1.21	1151
	870	44	1.08	0.86	1241	80	0.87	993	0.72	827	0.62	709	1.08	1241	0.99	1241	87	0.99	1241
	600	30	0.81	0.63	1331	78	0.65	1065	0.55	887	0.47	760	0.81	1331	0.74	1331	86	0.74	1331
	300	15	0.46	0.34	1438	74	0.37	1151	0.31	959	0.27	822	0.46	1438	0.41	1438	84	0.41	1438
	100	5.0	0.17	0.12	1515	70	0.14	1212	0.11	1010	0.10	866	0.17	1515	0.15	1515	82	0.15	1515
25 (25)	2500	100	1.62	1.30	822	81	1.31	657	1.11	548	0.96	470	1.53	771	1.52	822	86	1.52	822
	1750	70	1.38	1.10	988	80	1.11	791	0.94	659	0.81	565	1.38	988	1.28	988	86	1.28	988
	1160	46	1.08	0.84	1143	78	0.87	914	0.73	762	0.63	653	1.08	1143	0.99	1143	85	0.99	1143
	870	35	0.89	0.68	1227	77	0.71	982	0.60	818	0.52	701	0.89	1227	0.80	1227	85	0.80	1227
	600	24	0.67	0.50	1311	75	0.54	1049	0.45	874	0.39	749	0.67	1311	0.60	1311	84	0.60	1311
	300	12	0.38	0.27	1412	71	0.30	1129	0.25	941	0.22	807	0.38	1412	0.33	1412	82	0.33	1412
	100	4.0	0.14	0.09	1483	67	0.11	1186	0.09	989	0.08	847	0.14	1483	0.12	1483	79	0.12	1483

1. Numbers shown in ( ) are exact ratios.
2. If input speed is below 1160 RPM, please specify speed and mounting position to insure proper lubrication.
3. See engineering section, pages 224-226, for further discussion regarding service factors.
4. Actual input HP must not exceed the thermal input HP capacity on a continuous basis.
5. 1.00 Service Factor.
6. See engineering section, page 227, for further discussion regarding gear reducer efficiencies.

SINGLE REDUCTION
THRUST AND OVERHUNG LOAD RATINGS

REDUCER SIZE
924

OVERHUNG LOAD CAPACITIES[1]							THRUST CAPACITIES				2.375 CENTER DISTANCE	
INPUT SHAFT	OUTPUT SHAFT[5]						OUTPUT SHAFT					
ALL MODELS	DB, DT[2]	DV SHAFT UP	DV SHAFT DOWN	DSF[3, 4] BASE SIDE	DSF[3, 4] COVER SIDE		DB, DT, DV	DSF TOWARD BASE	DSF AWAY FROM BASE		INPUT RPM	RATIO
350	683	683	728	921	921		677	1701	1701		2500	**4** (4)
350	721	721	772	975	975		687	1777	1777		1750	
350	821	821	884	1094	1094		748	1909	1909		1160	
350	901	901	960	1197	1197		808	1909	1909		870	
350	1017	1017	960	1350	1240		909	1909	1909		600	
350	1025	1025	960	1675	1240		1232	1909	1909		300	
350	1025	1025	960	2150	1240		1500	1909	1909		100	
350	725	725	770	979	979		788	1879	1879		2500	**5** (5)
350	774	774	827	1035	1035		821	1909	1909		1750	
350	890	890	954	1179	1179		924	1909	1909		1160	
350	976	976	960	1298	1240		1002	1909	1909		870	
350	1025	1025	960	1463	1240		1131	1909	1909		600	
350	1025	1025	960	1826	1240		1500	1909	1909		300	
350	1025	1025	960	2150	1240		1500	1909	1909		100	
320	808	808	857	1056	1056		892	1909	1909		2500	**7½** (7½)
320	867	867	923	1128	1128		937	1909	1909		1750	
320	1003	1003	960	1312	1312		1071	1909	1909		1160	
320	1025	1025	960	1451	1240		1191	1909	1909		870	
320	1025	1025	960	1641	1240		1395	1909	1909		600	
320	1025	1025	960	2103	1240		1500	1909	1909		300	
320	1025	1025	960	2150	1240		1500	1909	1909		100	
250	880	880	930	1125	1125		993	1909	1909		2500	**10** (10)
250	942	942	960	1218	1218		1041	1909	1909		1750	
250	1025	1025	960	1423	1240		1219	1909	1909		1160	
250	1025	1025	960	1576	1240		1383	1909	1909		870	
230	1025	1025	960	1801	1240		1500	1909	1909		600	
155	1025	1025	960	2150	1240		1500	1909	1909		300	
93	1025	1025	960	2150	1240		1500	1909	1909		100	
290	992	992	960	1262	1240		1172	1909	1909		2500	**15** (15)
290	1025	1025	960	1370	1240		1254	1909	1909		1750	
290	1025	1025	960	1602	1240		1500	1909	1909		1160	
290	1025	1025	960	1792	1240		1500	1909	1909		870	
234	1025	1025	960	2074	1240		1500	1909	1909		600	
163	1025	1025	960	2150	1240		1500	1909	1909		300	
107	1025	1025	960	2150	1240		1500	1909	1909		100	
270	1025	1025	960	1364	1240		1295	1909	1909		2500	**20** (20)
270	1025	1025	960	1485	1240		1429	1909	1909		1750	
270	1025	1025	960	1756	1240		1500	1909	1909		1160	
270	1025	1025	960	1977	1240		1510	1909	1909		870	
235	1025	1025	960	2150	1240		1500	1909	1909		600	
174	1025	1025	960	2150	1240		1500	1909	1909		300	
127	1025	1025	960	1240	1240		1500	1909	1909		100	
240	1025	1025	960	1449	1240		1420	1909	1909		2500	**25** (25)
240	1025	1025	960	1580	1240		1500	1909	1909		1750	
240	1025	1025	960	1893	1240		1500	1909	1909		1160	
240	1025	1025	960	2132	1240		1500	1909	1909		870	
238	1025	1025	960	2150	1240		1500	1909	1909		600	
184	1025	1025	960	2150	1240		1500	1909	1909		300	
142	1025	1025	960	2150	1240		1500	1909	1909		100	

1. Overhung load given at one shaft diameter from housing or mounting flange. All values given in pounds.
2. Overhung load capacities are based on the direction and location of the load as shown in figure 1 on page 228. Consult factory for allowable OHL values if load is applied as shown in figure 2A, B, C or D on page 228.
3. Overhung load based on maximum bore size. Use of smaller driven shaft diameter may limit OHL capacity.
4. Overhung load capacity given at a point located 5.000 inches from centerline of housing.
5. For DSN output shaft overhung load capacities, contact the factory.