

MOTO DRIVE®

Updated 5/10/2017

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MOTO DRIVE



RIGHT ANGLE



PARALLEL

ERC CONTROL



**REEVES
INNOVAdrive**



REEVES MOTO DRIVE

REEVES MOTO DRIVE units are ideally suited for demanding applications where simplicity of maintenance and reliability are required. Typical applications include pumps, agitators, mixers, screw conveyors, feeders, presses, extruders, rotary kilns, pelletizers, wood chippers, rolls, and a wide variety of bulk material handling conveyors.

REEVES MOTO DRIVE units are offered with Parallel Shaft Reducers, Right Angle Reducers or a Non-reducer drive. Select the option that best suits your application.

REEVES Washdown MOTO DRIVE

REEVES Washdown MOTO DRIVE units withstand corrosive chemicals, severe environments, and frequent washdowns. All external parts are cast iron and coated with USDA approved white epoxy paint. Washdown MOTO DRIVE units are equipped with easy clean motors suitable for normal washdown by steam detergents and sanitizers. All disc faces are chrome-plated for corrosion resistance and longer belt life. Offers optimum performance in food and chemical processing, and wastewater treatment facilities. "Recommended for units that will be subjected to long term storage, high humidity conditions or extended periods of disuse."

REEVES Remote Controls

The Electric Remote Control (ERC) offers an easy way to vary a MOTO DRIVE unit output speed from a remote location. A drive-mounted shifting motor is controlled by a push button station (supplied).

REEVES INNOVAdrive

NEW! The Reeves INNOVAdrive is a modern drop-in replacement for the Reeves MotoDrive, with identical foot print and output shaft location. This pre-engineered variable speed package includes a pre-assembled motor and APG gearbox matched with a versatile Variable Frequency Drive in a NEMA 4X/12 enclosure.

Available now from 1/2 HP through 7-1/2 HP.

Packages with standard APG footprints available through 50 HP. Contact Customer Service for details, ratings and CAD drawings. On-Line catalog coming soon.

MOTO DRIVE

- Exceptional torque and shock load capability
- 0.25 - 50 HP
- Up to 10:1 speed range
- Wide choice of options and modifications
- Readily available units include washdown, explosion-proof and other popular industry standards

MACHINED-ALL-OVER DISCS

The upgraded REEVES MOTO DRIVE line incorporates machined-all-over ductile iron discs in case sizes 050 to 200. Ductile iron is more durable than cast iron, with a tensile strength of more than double cast iron, which means more resistance to grooving of the disc face.

NEMA C-FACE MOTOR

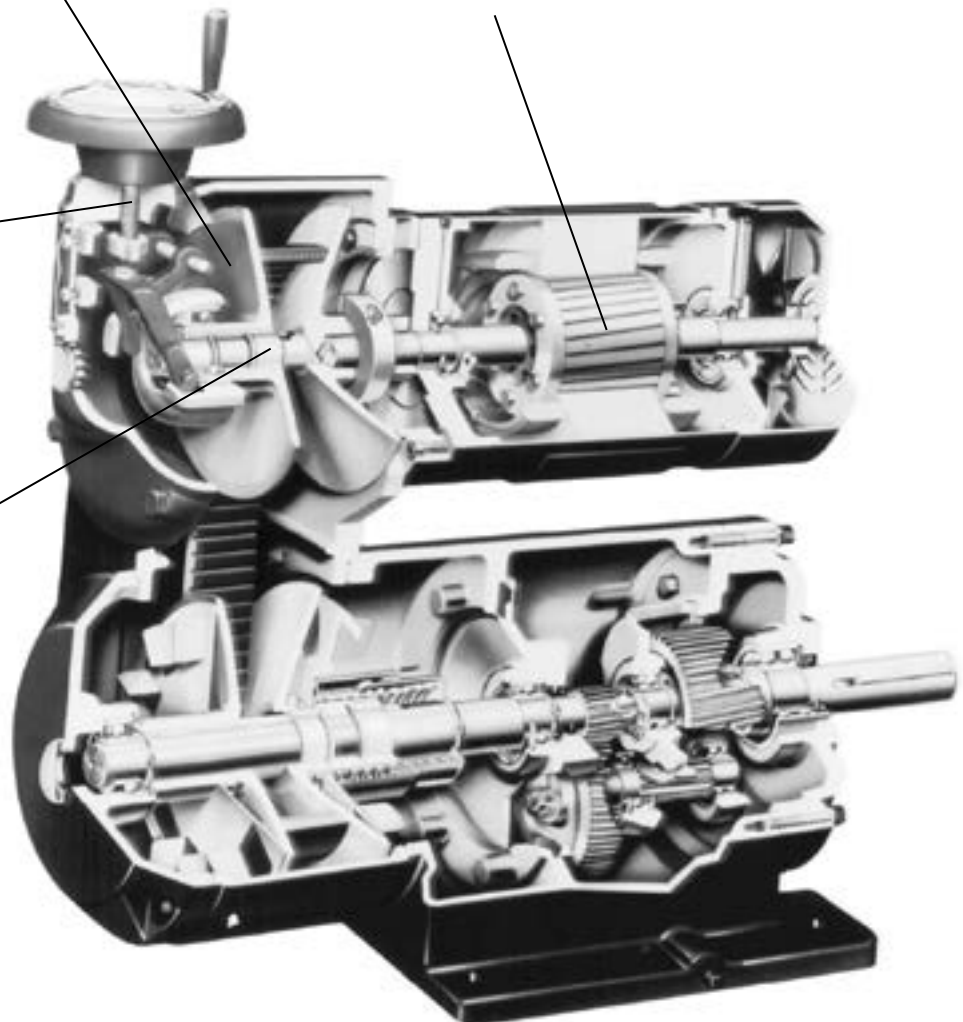
The improved REEVES MOTO DRIVE line incorporates a REEVES NEMA standard C-face construction motor. If you need to change motors for any reason, you can replace it on the spot with an off-the-shelf C-face motor.

SCREW SHIFTER

The improved MOTO DRIVE unit, in sizes 100 and 200, features a screw type shifter with a round handwheel for more positive control.

NO-LUBE BUSHING

The no-lube bushing and key design has been improved on the constant disc assembly, in case sizes 050 through 200, to allow the torque to be transmitted directly through the nyatron key. The result is improved shock handling capacity and less wear.



MOTO DRIVE

REEVES MOTO DRIVE units are adjustable speed drives designed to provide infinitely variable speed over and/or up to a 10:1 speed range. They are specifically designed to offer high starting torque, excellent shock resistance, long life and low maintenance.

REEVES MOTO DRIVE units are available in many mounting configurations including:

- Foot and flange mounts
- C-flow and Z-flow

REEVES MOTO DRIVE units employ either REEVES parallel gearing or MASTER XL right angle worm and worm/helical gearing.

Standard REEVES MOTO DRIVE drivemotors are 1750 RPM, 3 phase, 230/460 volt, 60 Hz, TEFC, Class F insulated, design B, C-face footless and service-factored for full output HP rating.

Motors, gear enclosures and special finishes are available for washdown, corrosive or explosion-proof environments.

A variety of control options are available. A handwheel control with indicator is standard. ERC (Electric Remote Control) and programmable electronic digital tachometers are also available.

HOW TO ORDER

When ordering a REEVES MOTO DRIVE unit, include:

List:	Example:
1. Size	221
2. Horsepower	2 HP
3. Output Speeds	840-84 RPM
4. Assembly Number	101
5. Control Position	North
6. Options (if required)	Washdown Package

NOTE: Many MOTO DRIVE units have a part number listed in the selection tables. If the selected unit has an asterisk (*) instead of a part number, order that unit by description, including size, horsepower, output speeds and options. For any unit, include assembly number and control position.

NOMENCLATURE

Parallel Units

Belt Case Size _____ **X** _____ **X** _____ **X**
 Reducer Size _____
 Stages of Reduction _____

EXAMPLES

Size 2 Case _____ **2** _____ **2** _____ **1**
 Size 2 Reducer _____
 Single Reduction _____

Right Angle Units

Belt Case Size _____ **X** _____ **X** _____ **XX**
 Reducer Type _____
 W = MASTER XL Single Worm
 C = MASTER XL Combination
 Reducer Size _____

EXAMPLES

Size 1 Belt Case _____ **1** _____ **W** _____ **21**
 MASTER XL Single Worm Reducer _____
 MASTER XL Size 21 _____

MOTO DRIVE - Parallel

0.25 Horsepower
10:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
4850	800	485	M05C1028	050	0		3.2	20	20
3960	800	485	*	050	0		4.0	20	20
3170	523	317	*	051	1.5	III	5.0	30	30
2594	428	259	M05C1029	051	1.8	III	6.1	37	37
2100	346	210	*	051	2.2	III	7.5	45	45
1770	292	177	*	051	2.8	III	9	54	54
1470	242	147	*	051	3.4	III	11	65	65
1195	197	119	M05C1030	051	4.1	III	13	80	80
944	156	94.4	*	051	5.1	III	17	101	101
786	130	78.6	M05C1004	051	6.2	III	20	122	122
639	105	63.9	*	052	7.6	III	25	149	149
522	86	52.2	M05C1031	052	9.3	III	30	183	183
426	70.2	42.6	*	052	11.4	III	37	224	224
346	57.1	34.6	*	052	14.0	III	45	276	276
284	46.8	28.4	*	052	17.1	III	56	337	337
232	38.2	23.2	*	052	20.9	III	68	412	412
189	31.2	18.9	*	052	25.6	III	83	505	505
154	25.5	15.4	M05C1032	052	31.4	III	102	618	618
126	20.8	12.6	M05C1033	053	38.1	III	125	756	756
103	19.1	10.3	*	053	47.1	III	153	825	825
84.1	19.1	8.4	M05C1013	053	57.7	III	187	826	826
64.7	7.6	6.3	*	113	72.0	III	243	2063	2063
54.8	7.6	5.4	*	113	84.0	III	288	2063	2063
49.5	7.4	4.8	*	113	92.0	III	318	2118	2118
41.9	7.6	4.1	M10C1002	113	111.0	III	376	2061	2061
37.4	14.0	3.6	*	113	122.0	III	422	1123	1123
31.6	13.9	3.1	M10C1003	113	145.0	II	498	1133	1133
28.7	13.8	2.8	*	113	163.0	II	549	1138	1138

* Order By Description

5:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3220	644	644	M05E1100	050	0		5	24	24
2630	600	526	*	050	0		6	26	26
2150	392	430	*	051	1.5	III	7	40	40
1750	321	350	M05E1101	051	1.8	III	9	49	49
1430	260	286	*	051	2.2	III	11	61	61
1175	219	235	*	051	2.8	III	13	72	72
950	182	190	*	051	3.4	III	17	87	87
780	148	156	M05E1102	051	4.1	III	20	107	107
626	117	125	*	051	5.1	III	25	135	135
522	97	104	M05E1103	051	6.2	III	30	162	162
424	79	85	*	052	7.6	III	37	199	199
346	65	69	M05E1104	052	9.3	III	46	244	244
285	53	57	*	052	11.4	III	55	297	297
231	43	46	*	052	14.0	III	68	366	366
190	43	38	M05E1105	052	14.0	III	83	366	366
154	29	31	*	052	20.9	III	102	550	550
126	25	23	*	052	25.6	III	125	673	673
103	21	38	M05E1106	052	31.4	III	154	412	412
84	17	21	*	053	38.4	III	188	757	757
68	14	21	M05E1107	053	38.4	III	232	757	757
56	19	11	*	053	57.7	III	282	826	826
45	8.9	8.9	*	113	71.0	III	353	1892	1892
38	8	7.6	*	113	84.0	III	417	2064	2064
29	8	5.8	*	113	111	III	544	2061	2061
26	14	5.2	*	113	122	II	610	1139	1139
20	14	4.0	*	113	163	II	795	1138	1138
17	14	3.3	*	113	163	I	955	1138	1138

* Order By Description

MOTO DRIVE - Parallel

0.50 Horsepower
10:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
4850	1450	485	M05C1500	050	0		6	22	22
3960	1450	485	*	050	0		8	22	22
3170	948	317	*	051	1.5	III	10	33	33
2594	775	259	M05C1545	051	1.8	III	12	41	41
2109	630	211	*	051	2.2	III	15	50	50
1770	529	177	M05C1540	051	2.8	III	18	60	60
1470	439	147	*	051	3.4	III	21	72	72
1195	357	119	M05C1543	051	4.1	III	26	88	88
944	282	94.4	*	051	5.1	III	33	112	112
786	235	78.6	M05C1513	051	6.2	III	40	134	134
639	191	63.9	*	052	7.6	III	49	165	165
522	156	52.2	M05C1505	052	9.3	III	60	202	202
426	127	42.6	*	052	11.4	III	74	248	248
348	104	34.8	M05C1506	052	14.0	III	91	303	303
284	84.9	28.4	*	052	17.1	III	111	371	371
232	69.3	23.2	M05C1508	052	20.9	III	136	455	455
189	56.6	18.9	M05C1509	052	25.6	III	167	557	557
154	46.2	15.4	M05C1544	052	31.4	III	204	682	682
126	41.6	12.6	M05C1515	053	38.4	III	250	757	757
103	39.3	10.3	M05C1511	053	47.1	II	306	802	802
84.1	38.1	8.4	*	053	57.7	II	375	826	826
64.7	28.5	6.3	M10C1004	113	71.0	I	487	1107	1107
54.8	28.2	5.4	*	113	84.0	I	575	1117	1117
49.5	28.7	4.8	*	113	92.0	I	636	1098	1098
41.9	27.0	4.1	*	113	111.0	I	752	1168	1168

* Order By Description

5:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3220	1200	644	M05E1300	050	0		10	26	26
2630	1200	526	*	050	0		12	26	26
2150	784	430	*	051	1.5	III	15	40	40
1750	642	350	M05E1301	051	1.8	III	18	49	49
1430	519	286	*	051	2.2	III	22	61	61
1175	438	235	*	051	2.8	III	27	72	72
950	364	190	*	051	3.4	III	33	87	87
780	296	156	M05E1302	051	4.1	III	40	107	107
626	233	125	*	051	5.1	III	50	135	135
522	194	104	M05E1303	051	6.2	III	60	162	162
424	158	85	*	052	7.6	III	74	199	199
346	129	69	M05E1304	052	9.3	III	91	244	244
285	106	57	*	052	11.4	III	111	297	297
231	86	46	*	052	14.0	III	137	366	366
190	86	38	M05E1305	052	14.0	III	166	366	366
154	57	31	*	052	20.9	III	205	550	550
126	47	25	*	052	25.6	III	251	673	673
103	38	21	M05E1306	052	31.4	III	307	824	824
84	40	17	*	053	34.4	III	376	782	782
68	40	14	M05E1307	053	34.4	II	463	782	782
56	38	11	*	053	57.7	II	564	826	826
45	30	8.9	*	113	71.0	I	705	1056	1056
38	28	7.6	*	113	84.0	I	833	1118	1118
29	27	5.8	*	113	111	I	1088	1168	1168

* Order By Description

MOTO DRIVE - Parallel

0.75 Horsepower
10:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
4660	900	466	M10C1246	100	0		10	53	53
3983	900	466	*	100	0		12	53	53
3236	625	324	*	111	1.4	III	15	76	76
2648	511	265	M10C1255	111	1.8	III	18	92	92
2157	417	216	*	111	2.2	III	22	113	113
1942	375	194	M10C1247	111	2.4	III	24	126	126
1713	331	171	M10C1201	111	2.7	III	28	143	143
1465	283	147	*	111	3.2	III	32	167	167
1186	229	119	M10C1215	111	3.9	II	40	206	206
1045	202	104	*	111	4.5	II	45	234	234
884	190	88.4	M10C1244	111	5.2	II	53	249	249
764	180	76.4	M10C1256	111	6.1	II	62	262	262
676	174	67.6	*	111	6.9	II	70	271	271
559	108	55.9	M10C1248	112	8.4	III	85	438	438
485	93.8	48.5	*	112	9.7	III	97	504	504
428	82.6	42.8	M10C1249	112	11.0	II	110	572	572
366	70.8	36.6	*	112	12.7	II	129	668	668
323	65.8	32.3	M10C1207	112	14.4	II	146	718	718
261	67.2	26.1	*	112	17.8	II	181	703	703
221	61.6	22.1	M10C1209	112	21.2	I	214	767	767
197	59.2	19.7	M10C1212	112	23.4	I	240	799	799
167	59.0	16.7	M10C1213	112	27.8	I	284	801	801
151	61.7	15.1	M10C1210	112	30.7	I	312	766	766
128	60.4	12.8	*	112	36.3	I	370	783	783
106	60.2	10.6	M10C1214	113	44.0	I	446	785	785
80.8	15.6	8.0	*	123	57.7	III	585	3030	3030
65.7	15.5	6.5	*	123	70.6	III	719	3047	3047
53.9	15.6	5.3	*	123	86.5	III	876	3025	3025
43.1	16.7	4.3	*	123	106	II	1095	2836	2836
35.6	17.1	3.5	M10C1257	123	130	II	1329	2752	2752
28.9	8.0	2.8	*	133	159	III	1633	5854	5854
24.1	9.5	2.4	*	133	195	II	1958	4931	4931

* Order By Description

5:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3220	1750	644	M05E1500	050	0		15	27	27
2630	1750	526	*	050	0		18	27	27
2150	1144	430	*	051	1.5	III	22	41	41
1750	936	350	M05E1501	051	1.8	III	27	51	51
1430	758	286	*	051	2.2	III	33	62	62
1175	639	235	*	051	2.8	III	40	74	74
950	530	190	*	051	3.4	III	50	89	89
780	431	156	M05E1502	051	4.1	III	61	110	110
626	340	125	*	051	5.1	II	75	139	139
522	284	104	M05E1503	051	6.2	II	91	167	167
424	231	85	*	052	7.6	III	111	205	205
346	188	69	M05E1504	052	9.3	III	137	251	251
285	155	57	*	052	11.4	III	166	305	305
231	125	46	*	052	14.0	III	205	377	377
190	125	38	M05E1505	052	14.0	III	249	377	377
154	84	31	*	052	20.9	III	307	565	565
126	68	25	*	052	25.6	III	376	692	692
103	57	21	M05E1506	052	31.4	I	461	824	824
84	60	17	*	053	38.4	I	564	790	790
68	60	14	M05E1507	053	38.4	I	695	790	790
56	16	11	*	123	57.7	III	847	3030	3030
45	16	9.1	*	123	70.6	III	1041	3047	3047
37	15	7.5	*	123	86.5	III	1268	3142	3142
30	17	6.0	*	123	106	II	1585	2836	2836
25	17	4.9	*	123	130	II	1923	2815	2815
20	17	4.0	*	123	159	I	2363	2819	2819
17	10	2.7	*	133	195	II	2848	4957	4957

* Order By Description

MOTO DRIVE - Parallel

1.0 Horsepower
9:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
4200	1150	466	M10C1539	100	0		15	55	55
2917	799	324	*	111	1.4	III	22	79	79
2386	653	265	M10C1546	111	1.8	III	26	96	96
1944	532	216	*	111	2.2	III	32	118	118
1750	479	194	M10C1540	111	2.4	III	36	132	132
1544	423	171	*	111	2.7	III	41	149	149
1321	362	147	*	111	3.2	III	48	174	174
1069	293	119	M10C1541	111	3.9	II	59	215	215
942	280	104	*	111	4.5	II	67	225	225
797	294	88.4	M10C1501	111	5.2	II	79	214	214
689	279	76.4	M10C1547	111	6.1	II	92	226	226
610	276	67.6	*	111	6.9	II	103	229	229
504	138	55.9	*	112	8.4	III	125	457	457
438	120	48.5	M10C1513	112	9.7	III	144	526	526
330	98	36.6	M10C1503	112	12.7	II	191	641	641
291	100	32.3	M10C1548	112	14.4	II	217	627	627
235	101	26.1	M10C1504	112	17.8	II	268	625	625
199	100	22.1	M10C1515	112	21.2	I	317	633	633
178	101	19.7	M10C1542	112	23.4	I	355	621	621
151	100	16.7	*	112	27.8	I	419	628	628
136	97.3	15.1	M10C1516	112	30.7	I	462	647	647
110	30.2	12.2	M10C1250	123	38.4	III	572	2090	2090
88.6	24.3	9.8	*	123	47.1	III	711	2598	2598
72.8	20.8	8.0	M10C1507	123	57.7	III	866	3030	3030
59.2	21.2	6.5	*	123	70.6	II	1064	2979	2979
48.6	20.8	5.3	*	123	86.5	II	1297	3025	3025
38.9	22.7	4.3	*	123	106	II	1621	2778	2778
32.3	11.2	3.5	M10C1549	133	130	III	1951	5651	5651
26.1	10.6	2.8	*	133	159	III	2416	5969	5969
21.8	12.4	2.4	*	133	195	II	2896	5068	5068
17.6	5.6	1.7	*	243 (1)	159	III	3579	11134	11134
14.4	6.4	1.4	*	243 (1)	195	III	4367	9781	9781

* Order By Description

(1) 1200 RPM Motor

5:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3220	875	644	M10E1300	100	0		20	72	72
2630	875	526	*	100	0		24	72	72
2150	608	430	*	111	1.4	III	29	104	104
1750	497	350	M10E1301	111	1.8	III	36	127	127
1430	405	286	*	111	2.2	III	44	156	156
1170	322	234	*	111	2.7	III	54	196	196
950	298	190	*	111	3.2	II	66	212	212
780	280	156	M10E1302	111	3.9	II	81	225	225
640	285	128	*	111	5.2	II	98	221	221
520	279	104	M10E1303	111	6.1	II	121	226	226
420	275	84	M10E1304	111	6.1	I	150	226	226
335	91	67	*	112	9.7	III	188	691	691
253	102	51	*	112	12.7	II	249	617	617
230	100	46	M10E1305	112	14.4	II	274	627	627
180	101	36	*	112	17.8	I	349	625	625
153	100	31	*	112	21.2	I	413	633	633
125	100	25	M10E1306	112	21.2	I	504	633	633
105	99	21	*	112	30.7	I	603	636	636
84	26	17	*	123	38.4	III	747	2404	2404
68	26	14	M10E1307	123	38.4	III	927	2404	2404
56	21	11	*	123	57.7	III	1129	3030	3030
45	21	9.1	*	123	70.6	II	1388	2979	2979
37	20	7.4	*	123	86.5	II	1693	3115	3115
30	22	6.0	*	123	106	I	2114	2836	2836
25	23	4.9	M10E1308	123	130	I	2564	2799	2799
20	11	4.0	*	133	159	II	3151	5969	5969
16.7	12.4	3.3	*	133	195	I	3778	5068	5068
13.5	12.4	2.7	*	133	195	I	4669	5068	5068
11.0	6.2	2.2	*	243	195	II	5730	10189	10189

* Order By Description

MOTO DRIVE - Parallel

1.50 Horsepower
9:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
4200	1750	466	M10C1550	100	0		23	54	54
2917	1215	324	*	111	1.4	III	32	78	78
2386	994	265	*	111	1.8	III	40	95	95
1944	810	216	M10C1543	111	2.2	III	49	117	117
1750	729	194	M10C1551	111	2.4	III	54	130	130
1544	643	171	*	111	2.7	III	61	147	147
1321	613	147	*	111	3.2	III	72	154	154
1069	585	119	M10C1554	111	3.9	II	88	162	162
942	594	104	*	111	4.5	II	100	159	159
840	350	93.2	M10C1810	121	5.1	II	113	270	270
672	280	74.6	M10C1555	121	6.2	II	141	338	338
559	233	62.0	*	122	7.6	III	169	406	406
453	189	50.2	M10C1805	122	9.3	III	209	501	501
365	152	40.5	M10C1806	122	11.4	III	259	621	621
300	125	33.3	M10C1809	122	14.0	III	315	756	756
247	103	27.4	*	122	17.1	III	383	918	918
198	82.5	22.0	M10C1801	122	20.9	III	477	1145	1145
162	67.3	17.9	*	122	25.6	III	585	1405	1405
134	55.7	14.8	*	122	31.4	III	707	1696	1696
110	45.6	12.2	M10C1807	123	38.4	III	858	2073	2073
88.6	36.1	9.8	*	123	47.1	III	1067	2619	2619
72.8	33.4	8.0	*	123	57.7	III	1299	2830	2830
59.2	34.0	6.5	M10C1808	123	70.6	II	1596	2781	2781
48.6	20.2	5.3	*	133	86.5	II	1945	4680	4680
39.6	17.0	4.4	*	133	106	II	2386	5561	5561
32.3	16.9	3.5	M10C1556	133	130	III	2926	5594	5594
26.4	8.8	2.6	*	243	159	III	3579	10737	10737
21.6	9.2	2.1	*	243	195	II	4367	10189	10189
17.6	8.8	1.7	*	243(1)	159	III	5368	10737	10737

* Order By Description

(1) 1200 RPM Motor

5:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3220	1325	644	M10E1500	100	0		29	71	71
2630	1325	526	*	111	0		36	71	71
2150	920	430	*	111	1.4	III	44	103	103
1750	753	350	M10E1501	111	1.8	II	54	126	126
1430	613	286	*	111	2.2	II	66	154	154
1170	625	234	*	111	2.7	II	81	151	151
950	723	190	*	111	3.2	I	100	131	131
780	674	156	M10E1502	111	3.9	I	121	140	140
644	265	129	*	121	5.1	III	147	357	357
520	212	104	M10E1503	121	6.2	III	182	446	446
420	212	84	M10E1504	121	6.2	III	225	446	446
350	208	70	*	112	9.7	II	270	454	454
265	213	53	*	112	12.7	I	357	445	445
230	215	46	M10E1505	112	14.4	I	411	439	439
189	78	38	*	122	17.1	III	499	1213	1213
152	63	30	*	122	20.9	III	622	1513	1513
125	63	25	M10E1506	122	20.9	III	756	1513	1513
103	42	21	*	122	31.4	II	922	2240	2240
84.4	35	17	*	123	38.4	II	1120	2671	2671
68.0	35	14	M10E1507	123	38.4	II	1390	2671	2671
55.8	34	11	*	123	57.7	I	1694	2797	2797
45.4	34	9.1	*	123	70.6	I	2082	2793	2793
37.2	15	7.4	*	133	86.5	III	2540	6172	6172
30.4	17	6.1	*	133	106	II	3112	5567	5567
24.8	17	5.0	M10E1508	133	130	II	3817	5586	5586
20.0	17	4.0	*	133	159	I	4727	5637	5637
16.6	9.5	3.3	*	243	195	II	5696	9914	9914
13.5	9.5	2.7	*	243	195	I	7003	9914	9914
11.1	9.5	2.2	*	243	195	I	8517	9914	9914

* Order By Description

MOTO DRIVE - Parallel

2.0 Horsepower
10:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
4200		420	M20C1000	200	0		30	110	110
3415	1150	420	*	200	0		37	110	110
2800	767	280	*	221	1.5	III	45	164	164
2283	625	228	M20C1023	221	1.8	III	55	202	202
1858	509	186	M20C1001	221	2.2	III	68	248	248
1527	418	153	M20C1024	221	2.8	III	83	301	301
1235	338	124	*	221	3.4	III	102	373	373
1019	279	102	M20C1002	221	4.1	III	124	452	452
840	230	84.0	M20C1013	221	5.1	III	150	548	548
672	232	67.2	M20C1003	221	6.2	III	188	543	543
559	153	55.9	*	222	7.6	III	226	824	824
453	124	45.3	M20C1010	222	9.3	III	279	1017	1017
365	100	36.5	*	222	11.4	III	345	1261	1261
300	82.1	30.0	M20C1004	222	14.0	III	420	1535	1535
247	67.6	24.7	M20C1005	222	17.1	III	510	1863	1863
198	54.2	19.8	M20C1011	222	20.9	II	636	2324	2324
162	53.8	16.2	M20C1008	222	25.6	II	780	2341	2341
134	57.3	13.4	M20C1009	222	31.4	II	942	2199	2199
109	29.9	10.9	M20C1022	233	38.4	III	1155	4220	4220
89.4	24.5	8.9	M20C1012	233	47.1	III	1411	5152	5152
72.5	20.7	7.2	*	233	57.7	III	1738	6082	6082
59.5	20.5	5.9	*	233	70.6	II	2119	6137	6137
48.6	20.8	4.8	*	233	86.5	II	2593	6050	6050
39.6	22.6	3.9	*	233	106	II	3181	5567	5567
32.1	11.5	3.2	*	243	130	III	3932	11008	11008
26.4	11.3	2.6	M20C1014	243	159	II	4772	11134	11134
21.6	12.9	2.1	*	243	195	II	5822	9781	9781

* Order By Description

5:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3220	1750	644	M10E1700	100	0		39	72	72
2630	1750	526	*	100	0		48	72	72
2150	1215	430	*	111	1.4	II	59	104	104
1750	1080	350	M10E1701	111	1.8	I	72	117	117
1430	972	286	*	111	2.2	I	88	130	130
1170	1066	234	*	111	2.7	I	108	118	118
947	515	189	*	121	3.4	III	133	245	245
782	425	156	M10E1702	121	4.1	III	161	297	297
644	350	129	*	121	5.1	III	196	360	360
520	280	104	M10E1703	121	6.2	II	242	450	450
420	280	84	M10E1704	121	7.6	II	300	450	450
346	188	69	*	122	9.3	III	364	670	670
281	153	56	*	122	11.4	III	449	826	826
230	125	46	M10E1705	122	14.0	III	548	1008	1008
189	103	38	*	122	17.1	III	665	1224	1224
152	83	30	*	122	20.9	II	830	1527	1527
125	83	25	M10E1706	122	20.9	II	1008	1527	1527
103	56	21	*	122	31.4	II	1229	2262	2262
84	57	17	*	123	38.4	I	1503	2200	2200
68	57	14	M10E1707	123	38.4	I	1854	2200	2200
56	54	11	*	123	57.7	I	2259	2346	2346
46	25	9.1	*	133	70.6	II	2764	5085	5085
37	21	7.5	*	133	86.5	II	3382	6050	6050
30	23	6.1	*	133	106	I	4149	5567	5567
25	23	5.0	M10E1708	133	130	I	5089	5555	5555
20	11	4.1	*	243	159	II	6224	11134	11134
16.6	12.9	3.3	*	243	195	I	7594	9781	9781
13.5	12.9	2.7	*	243	195	I	9337	9781	9781

* Order By Description

MOTO DRIVE - Parallel

3.0 Horsepower
10:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
4200	1750	420	M20C1500	200	0		45	108	108
2800	1167	280	*	221	1.5	III	68	162	162
2283	951	228	M20C1520	221	1.8	III	83	199	199
1858	774	186	M20C1514	221	2.2	III	102	244	244
1527	636	153	M20C1508	221	2.8	III	124	297	297
1235	515	124	*	221	3.4	II	153	367	367
1019	425	102	*	221	4.1	II	185	445	445
840	350	84.0	M20C1509	221	5.1	II	225	540	540
672	360	67.2	M20C1515	221	6.2	II	281	525	525
559	233	55.9	*	222	7.6	III	339	812	812
453	189	45.3	M20C1510	222	9.3	III	418	1003	1003
365	152	36.5	*	222	11.4	II	518	1242	1242
300	125	30.0	M20C1511	222	14.0	II	630	1513	1513
247	112	24.7	*	222	17.1	II	765	1692	1692
198	108	19.8	M20C1505	222	20.9	I	954	1743	1743
162	67.3	16.2	*	232	25.6	I	1170	2809	2809
132	55.2	13.2	M20C1517	232	31.4	III	1427	3425	3425
109	45.5	10.9	M20C1518	233	38.4	II	1733	4160	4160
89.4	37.2	8.9	M20C1512	233	47.1	II	2116	5078	5078
72.5	34.5	7.2	M20C1513	233	57.7	II	2607	5474	5474
59.5	34.0	5.9	*	233	70.6	I	3178	5562	5562
48.3	20.1	4.8	M20C1519	243	86.5	III	3912	9389	9389
39.3	16.4	3.9	*	243	106	II	4817	11561	11561
32.1	17.6	3.2	*	243	130	II	5897	10769	10769
27.3	7.79	2.7	*	353	159	III	6933	24265	24265
21.9	8.33	2.1	M30C1010	353	195	III	8643	22689	22689
18.2	7.79	1.8	*	353(1)	159	III	10399	24265	24265
14.6	8.33	1.4	*	353(1)	195	II	12965	22689	22689

* Order By Description

(1) 1200 RPM Motor

5:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3220	1050	644	M20E1300	200	0		59	180	180
2630	1050	526	*	200	0		72	180	180
2147	700	429	*	221	1.5	III	88	270	270
1750	571	350	M20E1301	221	1.8	III	108	331	331
1425	465	285	*	221	2.2	III	133	407	407
1171	382	234	*	221	2.8	II	161	495	495
950	382	190	M20E1302	221	2.8	II	199	495	495
780	339	156	*	221	4.1	II	243	558	558
644	320	129	*	221	5.1	II	294	591	591
515	360	103	M20E1303	221	6.2	I	367	525	525
420	360	84	*	222	7.6	I	450	525	525
346	113	69	*	222	9.3	II	546	1675	1675
280	117	56	M20E1304	222	11.4	II	675	1611	1611
230	114	46	*	222	14.0	II	822	1654	1654
188	111	38	*	222	17.1	I	1004	1702	1702
152	108	30	*	222	20.9	II	1245	1743	1743
125	108	25	M20E1305	222	20.9	I	1513	1743	1743
103	103	21	*	222	31.4	I	1844	1844	1844
84	36	17	*	233	38.4	II	2261	5200	5200
68	36	14	M20E1306	233	38.4	II	2781	5200	5200
56	35	11	*	233	57.7	I	3400	5474	5474
46	34	9.1	*	233	70.6	I	4146	5562	5562
37	33	7.4	*	233	86.5	I	5091	5752	5752
30	16	6.0	*	243	106.0	II	6283	11561	11561
25	17	4.9	M20E1307	243	130.0	II	7692	11008	11008
20	17	4.1	*	243	159.0	I	9336	10932	10932
16.6	8.2	3.3	*	353	195.0	II	11391	22925	22925
12.8	8.2	2.7	*	353	195.0	II	14748	22925	22925
11.0	8.2	2.2	*	353	195.0	I	17189	22925	22925

* Order By Description

MOTO DRIVE - Parallel

5.0 Horsepower
10:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
4200	1200	420	M30C1000	300	0		75	263	263
2800	800	280	*	331	1.5	III	113	394	394
2283	652	228	M30C1003	331	1.8	III	138	483	483
1875	536	188	M30C1009	331	2.2	III	168	588	588
1522	435	152	M30C1004	331	2.8	III	207	725	725
1250	357	125	*	331	3.4	III	252	882	882
1014	290	101	M30C1018	331	4.1	III	311	1087	1087
830	257	83.0	*	331	5.1	III	380	1227	1227
677	290	67.7	M30C1005	331	6.2	II	465	1085	1085
550	157	55.0	*	332	7.6	III	573	2006	2006
452	129	45.2	M30C1006	332	9.3	III	697	2440	2440
372	106	37.2	M30C1007	332	11.4	III	848	2967	2967
300	85.7	30.0	M30C1001	332	14.0	II	1050	3676	3676
246	81.9	24.6	*	332	17.1	II	1283	3849	3849
200	78.6	20.0	*	332	20.9	II	1576	4011	4011
162	79.2	16.2	M30C1008	332	25.6	II	1943	3981	3981
132	77.3	13.2	M30C1002	332	31.4	I	2378	4077	4077
108	30.9	10.8	*	343	38.4	III	2911	10189	10189
88.8	25.4	8.8	*	343	47.1	III	3549	12421	12421
72.4	26.7	7.2	M30C1019	343	57.7	II	4352	11792	11792
59.4	26.9	5.9	*	343	70.6	II	5305	11726	11726
47.8	13.7	4.7	*	353	86.5	III	6595	23083	23083
39.3	13.6	3.9	M30C1011	353	106	III	8028	23254	23254
32.3	13.5	3.2	*	353	130	III	9754	23409	23409
26.6	13.6	2.7	*	353	159	II	11836	23109	23109
21.5	14.3	2.1	*	353	195	I	14657	22036	22036

* Order By Description

5:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3220	1750	644	M20E1500	200	0		98	180	180
2630	1750	526	*	200	0		120	180	180
2147	1167	429	*	221	1.5	II	147	270	270
1750	951	350	M20E1501	221	1.8	II	180	331	331
1431	867	286	*	221	2.2	I	220	364	364
1167	851	233	*	221	2.8	I	270	370	370
950	851	190	M20E1502	221	2.8	I	332	370	370
780	424	156	*	231	4.1	III	404	744	744
631	343	126	*	231	5.1	III	499	918	918
519	282	104	*	231	6.2	II	607	1116	1116
420	282	84	M20E1503	231	6.2	II	750	1116	1116
346	280	69	*	222	9.3	I	910	1127	1127
280	280	56	M20E1504	222	9.3	I	1125	1127	1127
230	125	46	*	232	14.0	II	1370	2521	2521
188	102	38	*	232	17.1	II	1673	3079	3079
153	83	31	*	232	20.9	II	2055	3782	3782
125	83	25	M20E1505	232	20.9	I	2521	3782	3782
102	77	20	*	232	31.4	I	3102	4077	4077
83	45	17	*	243	38.4	III	3797	6987	6987
68	45	14	M20E1506	243	38.4	II	4634	6987	6987
56	30	11	*	243	57.7	II	5676	10444	10444
46	26	9.1	*	243	70.6	II	6909	12026	12026
37	26	7.4	*	243	86.5	I	8504	11906	11906
30	26	6.0	M20E1507	243	86.5	I	10504	11906	11906
25	13	5.0	*	353	130	II	12722	23409	23409
21	13	4.2	*	353	159	II	15071	23673	23673
16.5	14.3	3.3	*	353	195	I	18790	22036	22036

* Order By Description

MOTO DRIVE - Parallel

7.50 Horsepower
10:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
4200	1750	420	M30C1012	300	0		113	270	270
2800	1167	280	*	331	1.5	III	169	405	405
2283	951	228	M30C1020	331	1.8	III	207	497	497
1875	781	188	*	331	2.2	III	252	605	605
1522	634	152	M30C1013	331	2.8	III	311	745	745
1250	521	125	*	331	3.4	II	378	908	908
1014	423	101	M30C1021	331	4.1	II	466	1118	1118
830	385	83.0	M30C1014	331	5.1	II	569	1227	1227
683	285	68.3	M30C1022	341	6.2	III	692	1661	1661
550	229	55.0	*	332	7.6	II	860	2064	2064
452	188	45.2	M30C1016	332	9.3	II	1046	2509	2509
372	173	37.2	*	332	11.4	II	1272	2739	2739
300	168	30.0	*	332	14.0	I	1576	2816	2816
244	102	24.4	*	342	17.1	III	1936	4646	4646
199	82.9	19.9	M30C1015	342	20.9	III	2375	5699	5699
163	68.1	16.3	*	342	25.6	III	2892	6942	6942
134	55.7	13.4	M30C1017	342	31.4	II	3534	8481	8481
108	45.1	10.8	*	343	38.4	II	4367	10480	10480
88.8	43.3	8.8	*	343	47.1	II	5323	10906	10906
73.0	30.4	7.3	M30C1023	353	57.7	III	6471	15531	15531
58.5	24.4	5.8	*	353	70.6	III	8081	19394	19394
47.8	19.9	4.7	*	353	86.5	III	9893	23742	23742
39.3	20.1	3.9	*	353	106	II	12042	23524	23524
32.3	19.6	3.2	*	353	130	I	14631	24098	24098
27.3	18.8	2.7	*	35.3	159	I	1732	25101	25101

* Order By Description

5:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3220	1325	644	M30E1300	300	0		147	357	357
2630	1325	526	*	300	0		180	357	357
2147	883	429	*	331	1.5	III	220	535	535
1750	720	350	*	331	1.8	III	270	656	656
1430	720	286	M30E1301	331	1.8	III	331	656	656
1167	480	233	*	331	2.8	II	405	985	985
953	392	191	*	331	3.4	II	496	1206	1206
780	363	156	M30E1302	331	4.1	II	606	1301	1301
631	382	126	*	331	5.1	I	749	1236	1236
519	214	104	*	341	6.2	III	910	2212	2212
420	214	84	M30E1303	341	6.2	II	1125	2212	2212
346	172	69	*	332	9.3	II	1365	2747	2747
282	171	56	*	332	11.4	I	1673	2763	2763
230	168	46	*	332	14.0	I	2055	2816	2816
190	168	38	*	332	14.0	I	2488	2816	2816
153	63	31	*	342	20.9	III	3097	7527	7527
126	52	25	*	342	25.6	II	3758	9133	9133
103	54	21	M30E1305	342	31.4	II	4609	8731	8731
83	44	17	*	343	38.4	II	5696	10788	10788
68	43	14	*	343	47.1	I	6944	10906	10906
56	42	11	*	343	57.7	I	8514	11190	11190
45	42	9.0	M30E1306	343	57.7	I	10504	11190	11190
37	20	7.3	*	353	86.5	II	12903	23083	23083
30	21	6.0	*	353	106	II	15707	22990	22990
25	20	5.0	*	353	130	I	19084	23634	23634
21	20	4.2	*	353	159	I	22607	23482	23482

* Order By Description

MOTO DRIVE - Parallel

10.0 Horsepower
8:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3940	1200	500	M40C1003	400	0	III	160	525	525
3230	1200	500	*	400	0	III	195	525	525
2627	800	333	*	441	1.5	III	240	788	788
2141	652	272	M40C1504	441	1.8	III	294	966	966
1759	536	223	*	441	2.2	III	358	1176	1176
1428	435	181	M40C1004	441	2.8	III	441	1450	1450
1166	355	148	*	441	3.4	III	541	1775	1775
952	290	121	M40C1505	441	4.1	III	662	2174	2174
782	248	99	*	441	5.1	II	806	2541	2541
641	293	81.3	M40C1005	441	6.2	II	984	2153	2153
518	158	65.8	*	442	7.6	III	1216	3992	3992
421	128	53.4	*	442	9.3	III	1497	4916	4916
346	105	43.9	*	442	11.4	III	1824	5987	5987
281	85.7	35.7	M40C1506	442	14.0	III	2239	7353	7353
229	69.8	29.1	*	442	17.1	III	2751	9034	9034
187	66.4	23.7	M40C1002	442	20.9	II	3375	9499	9499
153	66.1	19.5	*	442	25.6	II	4111	9528	9528
125	73.2	15.9	*	442	31.4	II	5023	8604	8604
102	30.9	12.9	*	443	38.4	I	6207	20378	20378
81.9	27.0	10.4	*	453	47.1	III	7694	23319	23319
68.5	27.8	8.70	*	453	57.7	III	9198	22650	22650
54.9	27.9	6.96	*	453	70.6	II	11485	22626	22626
44.8	27.3	5.69	*	453	86.5	II	14061	23083	23083
36.8	27.1	4.67	*	453	106	I	17116	23254	23254

* Order By Description

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings in the grid below have been
discontinued.

5:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3220	1750	644	M30E1500	300	0		196	360	360
2630	1750	526	*	300	0		240	360	360
2147	1167	429	*	331	1.5	II	294	540	540
1750	951	350	*	331	1.8	II	360	663	663
1430	951	286	M30E1501	331	1.8	II	441	663	663
1167	634	233	*	331	2.8	II	540	994	994
953	592	191	*	331	3.4	I	662	1065	1065
780	581	156	M30E1502	331	4.1	I	808	1085	1085
631	578	126	*	331	5.1	I	998	1090	1090
524	285	105	*	341	6.2	II	1204	2215	2215
420	285	84	M30E1503	341	6.2	I	1501	2215	2215
346	285	69	*	332	9.3	I	1820	2212	2212
282	282	56	*	332	11.4	I	2231	2231	2231
230	125	46	*	342	14.0	III	2740	5042	5042
190	125	38	M30E1504	342	14.0	II	3317	5042	5042
153	83	31	*	342	20.9	II	4130	7599	7599
126	68	25	*	342	25.6	II	5011	9220	9220
103	73	21	M30E1505	342	31.4	I	6146	8604	8604
83	71	17	*	343	38.4	I	7594	8892	8892
67	36	13	*	353	47.1	III	9415	17323	17323
56	30	11	*	353	57.7	II	11294	20780	20780
45	30	9.0	M30E1506	353	57.7	II	14006	20780	20780
37	27	7.3	*	353	86.5	I	17205	23574	23574
30	27	6.0	*	353	106	I	20943	23254	23254

* Order By Description

MOTO DRIVE - Parallel

15.0 Horsepower
8:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3940	1750	500	M40C1500	400	0		240	540	540
3230	1750	500	*	400	0		293	540	540
2627	1167	333	*	441	1.5	III	360	810	810
2141	951	272	M40C1507	441	1.8	III	441	994	994
1759	781	223	*	441	2.2	II	537	1210	1210
1428	634	181	M40C1501	441	2.8	II	662	1491	1491
1166	518	148	*	441	3.4	II	811	1826	1826
952	435	121	M40C1508	441	4.1	II	993	2174	2174
782	456	99	M40C1502	441	5.1	I	1209	2072	2072
641	455	81.3	*	441	6.2	I	1476	2076	2076
518	230	65.8	*	442	7.6	III	1824	4106	4106
421	187	53.4	*	442	9.3	II	2246	5056	5056
346	154	43.9	*	442	11.4	II	2735	6158	6158
281	132	35.7	M40C1509	442	14.0	II	3359	7154	7154
229	134	29.1	*	442	17.1	I	4127	7070	7070
187	133	23.7	M40C1503	442	20.9	I	5063	7124	7124
153	128	19.5	*	442	25.6	I	6167	7362	7362
102	45.5	13.0	*	453	38.4	III	9238	20798	20798
81.9	39.5	10.4	*	453	47.1	II	11541	23933	23933
68.5	42.6	8.70	*	453	57.7	II	13797	22187	22187
54.9	41.1	6.96	*	453	70.6	I	17228	23009	23009
44.8	36.4	5.69	*	453	86.5	I	21091	25968	25968

* Order By Description

5:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3220	1325	644	M40E1100	400	0		294	713	713
2630	1325	526	*	400	0		359	713	713
2147	883	429	*	441	1.5	III	440	1070	1070
1750	720	350	*	441	1.8	II	540	1313	1313
1430	720	286	M40E1101	441	1.8	II	661	1313	1313
1167	480	233	*	441	2.8	II	810	1969	1969
953	473	191	*	441	3.4	II	992	1997	1997
780	448	156	M40E1102	441	4.1	I	1213	2110	2110
639	456	128	*	441	5.1	I	1480	2072	2072
524	236	105	*	451	6.2	III	1806	4010	4010
420	236	84	M40E1103	451	6.2	II	2251	4010	4010
344	142	69	*	442	9.3	II	2748	6678	6678
282	136	56	*	442	11.4	II	3347	6953	6953
230	132	46	*	442	14.0	II	4110	7154	7154
190	132	38	M40E1104	442	14.0	I	4976	7154	7154
153	133	31	*	442	20.6	I	6195	7124	7124
129	53	26	*	452	25.6	III	7311	17766	17766
104	58	21	M40E1105	452	31.4	II	9131	16334	16334
84	39	17	*	453	38.4	III	11274	24202	24202
67	40	13	*	453	47.1	II	14122	23933	23933
56	42	11	*	453	57.7	I	16882	22650	22650
45	41	9.0	*	453	70.6	I	21080	23009	23009

* Order By Description

MOTO DRIVE - Parallel

20.0 Horsepower
6:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3990	2111	603	*	551	1.5	III	316	597	597
2660	1400	400	M50C1000	500	0		474	900	900
1773	928	265	*	551	1.5	III	711	1358	1358
1444	760	217	M50C1001	551	1.8	III	873	1658	1658
1177	619	177	*	551	2.2	III	1071	2035	2035
961	506	145	*	551	2.8	III	1311	2491	2491
787	414	118	*	551	3.4	III	1601	3041	3041
645	339	97	M50C1002	551	4.1	II	1955	3714	3714
524	286	79	*	551	5.1	II	2404	4411	4411
431	283	65	*	551	6.2	II	2926	4447	4447
358	189	54	*	552	7.6	III	3516	6681	6681
282	148	42	*	552	9.3	III	4471	8495	8495
226	119	34	*	552	11.4	III	5587	10616	10616
189	99	28	M50C1003	552	14	III	6669	12672	12672
154	81	23	*	552	17.1	III	8171	15525	15525
127	69	19	*	552	20.9	II	9939	18233	18233
107	68	16	*	552	25.6	II	11814	18485	18485
85	80	13	*	552	31.4	I	14755	15699	15699
69	56	10	*	553	38.4	I	18257	22588	22588
55	53	8	*	553	47.1	I	22815	23799	23799

* Order By Description

5:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3220	1750	644	M40E1300	400	0		391	720	720
2630	1750	526	*	400	0		479	720	720
2147	1167	429	*	441	1.5	II	587	1080	1080
1750	951	350	*	441	1.8	II	720	1325	1325
1430	951	286	M40E1301	441	1.8	I	881	1325	1325
1167	797	233	*	441	2.8	I	1080	1581	1581
953	784	191	*	441	3.4	I	1323	1608	1608
780	780	156	M40E1302	441	4.1	I	1617	1617	1617
635	345	127	*	451	5.1	II	1985	3652	3652
522	284	104	*	451	6.2	II	2415	4444	4444
420	284	84	M40E1303	451	6.2	II	3001	4444	4444
344	219	69	*	442	9.3	I	3664	5755	5755
282	224	56	*	442	11.4	I	4463	5635	5635
230	125	46	*	452	14	III	5480	10084	10084
154	84	31	*	452	20.9	III	8182	15054	15054
129	70	26	*	452	25.6	II	9747	17935	17935
84	53	17	*	453	38.4	II	15032	23611	23611
67	53	13	*	453	47.1	I	18829	23776	23776
57	57	11	*	453	57.7	I	22301	22301	22301

* Order By Description

MOTO DRIVE - Parallel

25:0 Horsepower
6:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3990	2639	603	*	551	1.5	III	395	597	597
2660	1750	400	*	500	0		592	900	900
1773	1160	265	*	551	1.5	III	889	1358	1358
1444	950	217	*	551	1.8	III	1091	1658	1658
1177	774	177	*	551	2.2	III	1339	2035	2035
961	632	145	*	551	2.8	II	1639	2491	2491
787	518	118	*	551	3.4	II	2001	3041	3041
645	424	97	*	551	4.1	II	2443	3714	3714
524	361	79	*	551	5.1	I	3006	4369	4369
431	373	65	*	551	6.2	I	3657	4230	4230
359	236	54	*	552	7.6	III	4393	6677	6677
282	185	42	*	552	9.3	III	5589	8495	8495
226	148	34	*	552	11.4	III	6984	10616	10616
189	124	28	*	552	14	III	8337	12672	12672
154	101	23	*	552	17.1	II	10214	15525	15525
127	89	19	*	552	20.9	II	12424	17625	17625
107	88	16	*	552	25.6	I	14767	17855	17855
69	66	10	*	553	38.4	I	22822	23806	23806

* Order By Description

4:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3940	2639	992	*	551	1.5	III	400	597	597
3220	2639	992	*	551	1.5	III	489	597	597
2630	1750	658	*	500	0		599	900	900
1744	1160	436	*	551	1.5	III	903	1358	1358
1428	950	357	*	551	1.8	III	1104	1658	1658
1164	774	291	*	551	2.2	III	1354	2035	2035
950	632	238	*	551	2.8	II	1658	2491	2491
779	518	195	*	551	3.4	II	2024	3041	3041
638	424	159	*	551	4.1	II	2471	3714	3714
518	361	130	*	551	5.1	I	3040	4369	4369
426	373	106	*	551	6.2	I	3699	4230	4230
355	236	89	*	552	7.6	III	4443	6677	6677
279	185	70	*	552	9.3	III	5652	8495	8495
223	148	56	*	552	11.4	III	7064	10616	10616
187	124	47	*	552	14	III	8432	12672	12672
153	101	38	*	552	17.1	II	10330	15525	15525
125	88	31	*	552	20.9	II	12565	17863	17863
105	88	26	*	552	25.6	I	14935	17855	17855

* Order By Description

MOTO DRIVE - Parallel

30.0 Horsepower
6:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3990	2625	630	*	661	1.5	III	474	720	720
3220	2625	509	*	661	1.5	III	587	720	720
2630	1750	420	*	600	0		719	1080	1080
1773	1167	280	*	661	1.5	III	1066	1621	1621
1443	950	228	*	661	1.8	III	1310	1991	1991
1184	779	187	*	661	2.2	III	1596	2427	2427
967	636	153	*	661	2.8	III	1955	2971	2971
782	515	124	*	661	3.4	II	2417	3673	3673
644	424	102	*	661	4.1	II	2934	4460	4460
526	346	83	*	661	5.1	II	3597	5468	5468
433	285	68	*	661	6.2	I	4366	6637	6637
359	236	57	*	652	7.6	III	5271	8012	8012
282	185	45	*	652	9.3	III	6706	10194	10194
226	148	36	*	652	11.4	III	8381	12739	12739
189	124	30	*	652	14	II	10004	15206	15206
154	101	24	*	652	17.1	II	12256	18630	18630
127	106	20	*	652	20.9	I	14908	17783	17783
107	105	17	*	652	25.6	I	17720	17923	17923

* Order By Description

4:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
3945	3945	986	*	661	1.5	III	479	778	778
3220	3220	509	*	661	1.5	III	587	778	778
2630	2630	658	*	600	0		719	1167	1167
1753	1753	438	*	661	1.5	III	1078	1751	1751
1427	879	357	*	661	1.8	III	1325	2151	2151
1171	721	293	*	661	2.2	III	1615	2621	2621
956	589	239	*	661	2.8	III	1977	3210	3210
774	476	193	*	661	3.4	II	2444	3968	3968
637	392	159	*	661	4.1	II	2968	4818	4818
520	320	130	*	661	5.1	II	3638	5907	5907
428	285	107	*	661	6.2	I	4416	6637	6637
355	218	89	*	652	7.6	III	5331	8655	8655
279	172	70	*	652	9.3	III	6783	11012	11012
223	137	56	*	652	11.4	III	8477	13762	13762
187	115	47	*	652	14	II	10118	16426	16426
153	96	38	*	652	17.1	II	12396	19759	19759
125	107	31	*	652	20.9	I	15079	17625	17625
105	105	26	*	652	25.6	I	17923	17923	17923

* Order By Description

MOTO DRIVE - Parallel

40.0 Horsepower
4:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
2630	2150	658	*	600	0		959	1173	1173
1753	1433	438	*	661	1.5	III	1438	1759	1759
1427	1167	357	*	661	1.8	II	1767	2161	2161
1171	957	293	*	661	2.2	II	2153	2634	2634
956	782	239	*	661	2.8	II	2636	3225	3225
774	632	193	*	661	3.4	I	3259	3987	3987
637	521	159	*	661	4.1	I	3957	4840	4840
520	425	130	*	661	5.1	I	4851	5934	5934
428	428	107	*	661	6.2	I	5888	5888	5888
355	290	89	*	652	7.6	III	7109	8696	8696
279	228	70	*	652	9.3	III	9044	11063	11063
223	182	56	*	652	11.4	II	11302	13826	13826
187	187	47	*	652	14	I	13491	16503	16503
153	153	38	*	652	17.1	I	16528	19320	19320

* Order By Description

50.0 Horsepower
3:1 SPEED RANGE

SPEED RANGE			PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE (IN - LBS)		
MAX	INT	MIN					MAX SPD	INT SPD	MIN SPD
2630	1750	859	*	600K	0		1198	1801	1801
1833	1167	573	*	661K	1.5	II	1719	2701	2701
1492	950	466	*	661K	1.8	II	2112	3319	3319
1224	779	383	*	661K	2.2	I	2574	4044	4044
1000	667	313	*	661K	2.8	I	3151	4728	4728
809	647	253	*	661K	3.4	I	3896	4870	4870
666	654	208	*	661K	4.1	I	4730	4818	4818
543	346	170	*	652K	5.1	II	5799	9113	9113
448	285	140	*	652K	6.2	II	7039	11062	11062
371	236	116	*	652K	7.6	II	8498	13354	13354
291	185	91	*	652K	9.3	II	10812	16990	16990
233	151	73	*	652K	11.4	II	13511	20933	20933
195	167	61	*	652K	14	I	16128	18873	18873

* Order By Description

MOTO DRIVE - Right Angle

0.25 Horsepower
10:1 SPEED RANGE

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
485	49	*	05W12	10	III	17	0.13
382	38	M05C1027	05W12	12.7	III	21	0.13
323	32	*	05W12	15	III	25	0.13
269	27	*	05W12	18	III	30	0.13
243	24	*	05W12	20	III	34	0.13
194	19	M05C1532	05W12	25	III	42	0.13
162	16	*	05W12	30	II	47	0.12
121	12	*	05W12	40	II	62	0.12
97	10	M05C1026	05W12	50	I	78	0.12
81	8.1	M05C1538	05W16	60	III	94	0.12
69	6.9	*	05C12	70	III	118	0.13
56	5.6	*	05C12	86	III	145	0.13
48	4.8	M05C1534	05C12	101	III	171	0.13
40	4.0	*	05C12	121	II	204	0.13
34	3.4	*	05C12	144	II	225	0.12
30	3.0	*	05C12	162	II	253	0.12
25	2.5	*	05C12	192	II	299	0.12
20	2.0	*	05C12	240	I	374	0.12
17	1.7	*	1C16	288	III	449	0.12
11	1.1	*	1C16(1)	288	III	700	0.12

* Order By Description

(1) 1200 RPM Motor

5:1 SPEED RANGE

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
280	56	*	05W12	10	III	34	0.15
230	46	M05E1000	05W12	12.7	III	41	0.15
190	38	*	05W12	15	III	46	0.14
155	31	*	05W12	18	III	61	0.15
125	25	*	05W12	20	III	71	0.14
100	20	M05E1001	05W12	25	III	88	0.14
84	17	*	05W12	30	II	98	0.13
68	14	*	05W12	40	II	111	0.12
56	11	M05E1002	05W12	50	I	135	0.12
45	9.0	*	05C12	60	III	168	0.12
37	7.4	*	05C12	70	III	238	0.14
30	6.0	*	05C12	86	III	315	0.15
25	5.0	*	05C12	101	III	353	0.14
20	4.0	*	05C12	121	II	410	0.13
16	3.3	*	05C12	162	II	459	0.12
13	2.7	*	05C12	192	II	561	0.12
11	2.2	*	05C12	240	I	688	0.12
9.0	1.8	*	1C16	288	III	841	0.12
7.5	1.5	*	1C16	288	II	1008	0.12
6.0	1.2	*	1C16(1)	288	II	1259	0.12

* Order By Description

(1) 1200 RPM Motor

MOTO DRIVE - Right Angle

0.50 Horsepower
10:1 SPEED RANGE

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
485	49	*	05W12	10	III	45	0.35
382	38	M05C1541	05W12	12.7	II	58	0.35
323	32	M05C1520	05W12	15	I	68	0.35
269	27	M05C1521	05W12	18	I	82	0.35
243	24	*	05W12	20	I	88	0.34
194	19	M05C1523	05W12	25	I	110	0.34
162	16	M05C1539	05W16	30	II	125	0.32
121	12	M05C1542	05W16	40	II	166	0.32
97	10	M05C1526	05W16	50	I	195	0.30
81	8.1	*	05W16	60	I	234	0.30
69	6.9	M05C1535	05C12	70	I	309	0.34
56	5.6	*	05C12	86	I	380	0.34
48	4.8	M05C1529	05C12	101	I	433	0.33
39	3.9	*	1C16	121	II	507	0.31
32	3.2	*	1C16	144	II	604	0.31
29	2.9	*	1C16	162	II	679	0.31
24	2.4	*	1C16	192	II	805	0.31
19	1.9	*	1C16	240	I	941	0.29
16	1.6	*	1C16	288	I	1091	0.28
11	1.1	*	1C16(1)	288	I	1634	0.28

* Order By Description

(1) 1200 RPM Motor

5:1 SPEED RANGE

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
280	56	*	05W12	10	III	83	0.37
230	46	M05E1200	05W12	12.7	II	101	0.37
190	38	*	05W12	15	I	119	0.36
155	31	*	05W12	18	I	146	0.36
125	25	*	05W12	20	I	176	0.35
100	20	M05E1201	05W16	30	I	221	0.35
84	17	*	05W16	30	II	240	0.32
68	14	M05E1202	05W16	40	II	287	0.31
56	11	*	05W16	50	I	338	0.30
45	9	*	05W16	60	I	392	0.28
37	7.4	*	05C12	70	I	596	0.35
30	6.0	*	05C12	86	I	756	0.36
25	5.0	*	05C12	101	I	832	0.33
20	4.0	*	1C16	144	II	977	0.31
16	3.3	*	1C16	162	II	1147	0.30
14	2.7	*	1C16	240	I	1447	0.31
11	2.2	*	1C16	240	I	1776	0.31
9	1.8	*	1C16	288	I	2173	0.31
7.5	1.5	*	1C16(1)	240	I	2605	0.31
6	1.2	*	1C21(1)	288	II	2938	0.28

* Order By Description

(1) 1200 RPM Motor

MOTO DRIVE - Right Angle

**0.75 Horsepower
10:0 SPEED RANGE**

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
466	47	M10C1531	1W16	10	III	80	0.59
367	37	M10C1232	1W16	12.7	III	100	0.58
311	31	*	1W16	15	III	118	0.58
259	26	*	1W16	18	II	139	0.57
233	23	M10C1251	1W16	20	II	154	0.57
186	19	M10C1238	1W16	25	II	186	0.55
155	16	M10C1227	1W16	30	I	207	0.51
117	12	M10C1254	1W21	40	II	270	0.50
93	9.3	M10C1235	1W21	50	II	325	0.48
78	7.8	M10C1236	1W21	60	I	390	0.48
67	6.7	*	1C16	70	III	540	0.57
54	5.4	*	1C16	86	II	651	0.56
46	4.6	M10C1237	1C16	101	II	738	0.54
39	3.9	*	1C16	121	I	818	0.50
32	3.2	*	1C16	144	I	974	0.50
29	2.9	M10C1231	1C21	162	II	1074	0.49
24	2.4	*	1C16	192	I	1272	0.49
19	1.9	*	1C16	240	I	1526	0.47
16	1.6	*	1C21	288	I	1831	0.47
11	1.1	*	1C21(1)	288	I	2685	0.46

* Order By Description
(1) 1200 RPM Motor

5:1 SPEED RANGE

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
280	56	*	05W12	10	I	137	0.61
230	46	M05E1400	05W12	12.7	I	164	0.60
190	38	*	05W16	15	III	196	0.59
156	31	*	05W16	18	II	235	0.58
124	25	*	05W16	25	II	280	0.55
100	20	M05E1401	05W16	30	I	315	0.50
84	17	*	05W16	40	I	360	0.48
68	14	M05E1402	05W16	40	I	454	0.49
56	11	*	1W21	50	III	540	0.48
45	9.0	*	1W21	60	III	672	0.48
37	7.4	*	1C16	86	II	920	0.54
30	6.0	*	1C16	101	II	1113	0.53
25	5.0	*	1C16	121	I	1235	0.49
20	4.0	*	1C16	144	I	1544	0.49
16	3.3	*	1C16	162	I	1836	0.48
13	2.7	*	1C16	192	I	2196	0.47
10	2.1	*	1C21	240	I	2890	0.47
9.0	1.8	*	1C21	288	I	3224	0.46
7.5	1.5	*	1C21	288	I	3782	0.45
6.0	1.2	*	1C21	288	I	4721	0.45

* Order By Description

MOTO DRIVE - Right Angle

**1.0 Horsepower
9:1 SPEED RANGE**

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
420	47	M10C1532	1W16	10	III	123	0.82
331	37	M10C1552	1W16	12.7	II	152	0.80
280	31	*	1W16	15	II	180	0.80
233	26	M10C1519	1W16	18	I	211	0.78
210	23	M10C1523	1W16	20	I	234	0.78
168	19	M10C1242	1W16	25	I	285	0.76
140	16	M10C1252	1W21	30	II	338	0.75
105	12	M10C1520	1W21	40	I	426	0.71
84	9.3	M10C1521	1C16	50	II	593	0.79
70	7.8	*	1C16	60	II	711	0.79
60	6.7	M10C1536	1C16	70	II	819	0.78
49	5.4	*	1C16	86	I	981	0.76
42	4.6	*	1C16	101	I	1122	0.74
35	3.9	*	1C21	121	II	1325	0.73
29	3.2	*	1C21	144	II	1513	0.70
26	2.9	*	1C21	162	I	1702	0.70
22	2.4	*	1C21	192	I	2017	0.70
18	1.9	*	1C28	240	III	2413	0.67
15	1.6	*	1C21	288	I	2809	0.65

* Order By Description

5:1 SPEED RANGE

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
280	56	*	1W16	10	II	194	0.86
230	46	M10E1200	1W16	12.7	II	222	0.81
190	38	*	1W16	15	II	265	0.80
156	31	*	1W16	18	I	320	0.79
125	25	*	1W16	20	I	388	0.77
100	20	M10E1201	1W21	30	I	473	0.75
84	17	*	1W21	30	II	555	0.74
68	14	M10E1202	1W21	40	I	649	0.70
56	11	*	1W21	50	I	754	0.67
45	9.0	M10E1203	1C16	70	II	1120	0.80
37	7.4	*	1C16	86	I	1312	0.77
30	6.0	*	1C16	101	I	1597	0.76
25	5.0	*	1C21	121	II	1815	0.72
20	4.0	*	1C21	144	II	2269	0.72
16	3.3	*	1C21	162	I	2600	0.68
13	2.7	*	1C21	192	I	3177	0.68
10	2.1	*	1C21	240	I	3935	0.64

* Order By Description

MOTO DRIVE - Right Angle

**1.50 Horsepower
9:1 SPEED RANGE**

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
420	47	*	1W16	10	II	192	1.28
331	37	M10C1553	1W16	12.7	I	238	1.25
280	31	*	1W16	15	I	281	1.25
233	26	M10C1253	1W21	18	II	338	1.25
210	23	M10C1534	1W21	20	II	372	1.24
168	19	M10C1537	1W21	25	I	454	1.21
140	16	M10C1545	1C16	30	II	563	1.25
117	13	*	1C16	36	II	675	1.25
105	12	M10C1544	1C16	40	II	750	1.25
84	9.3	M10C1535	1C16	50	I	923	1.23
70	7.8	*	1C16	60	I	1107	1.23
60	6.7	M10C1538	1C16	70	I	1292	1.23
49	5.4	*	1C16	86	I	1536	1.19
42	4.6	*	1C21	101	I	1804	1.19
35	3.9	*	1C21	121	I	2070	1.14
29	3.2	M10C1529	1C21	144	I	2463	1.14
26	2.9	*	1C28	162	II	2601	1.07
22	2.4	*	1C28	192	II	3083	1.07
18	1.9	*	1C28	240	II	3709	1.03

* Order By Description

5:1 SPEED RANGE

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
350	70	*	1W16	10	I	225	1.25
280	56	*	1W16	10	I	288	1.28
230	46	M10E1400	1W16	12.7	I	345	1.26
190	38	*	1W16	12.7	I	418	1.26
156	31	*	1W21	18	II	511	1.26
125	25	*	1W21	20	II	635	1.26
100	20	M10E1401	1C16	30	I	769	1.22
84	17	*	1C16	30	II	960	1.28
68	14	M10E1402	1C16	40	II	1186	1.28
56	11	*	1C16	50	I	1396	1.24
45	9.0	M10E1403	1C16	70	I	1737	1.24
37	7.4	*	1C16	70	I	2070	1.22
30	6.0	*	1C21	86	II	2605	1.24
25	5.0	*	1C21	101	I	3000	1.19
20	4.0	*	1C21	144	I	3561	1.13
16	3.3	*	1C28	144	III	4318	1.13
13	2.7	*	1C28	192	II	5139	1.10
11	2.2	*	1C28	240	II	5844	1.02

* Order By Description

MOTO DRIVE - Right Angle

2.0 Horsepower
10:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
420	42	M20C1020	2W21	10	II	258	1.72
331	33	*	2W21	12.7	II	328	1.72
280	28	*	2W21	15	I	383	1.70
233	23	M20C1015	2W21	18	I	459	1.70
210	21	*	2W21	20	I	504	1.68
168	17	M20C1021	2W28	25	II	615	1.64
140	14	*	2C21	30	III	770	1.71
117	12	*	2C21	36	III	924	1.71
105	11	*	2C21	40	II	1014	1.69
84	8.4	M20C1016	2C21	50	II	1268	1.69
70	7.0	*	2C21	60	II	1522	1.69
60	6.0	*	2C21	70	II	1754	1.67
49	4.9	*	2C21	86	I	2155	1.67
42	4.2	*	2C21	101	I	2440	1.61
35	3.5	*	2C28	121	II	2778	1.53
29	2.9	*	2C28	144	II	3306	1.53
26	2.6	*	2C28	162	I	3501	1.44
22	2.2	*	2C28	192	I	4149	1.44
18	1.8	*	2C28	240	I	5006	1.39

* Order By Description

5:1 SPEED RANGE

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
350	70	*	1W21	10	II	310	1.72
280	56	*	1W21	10	II	394	1.75
230	46	M10E1600	1W21	12.7	II	477	1.74
190	38	*	1W21	15	I	567	1.71
156	31	*	1W21	18	I	689	1.70
125	25	*	1W21	25	I	827	1.64
100	20	M10E1601	1C16	30	I	1078	1.71
84	17	*	1C16	40	I	1276	1.70
68	14	M10E1602	1C16	40	I	1576	1.70
56	11	*	1C21	50	II	1913	1.70
45	9.0	M10E1603	1C21	60	II	2381	1.70
37	7.4	*	1C21	70	I	2851	1.68
30	6.0	*	1C21	86	I	3529	1.68
25	5.0	*	1C21	101	I	4059	1.61
20	4.0	*	1C28	144	II	4853	1.54
17	3.3	*	1C28	162	I	5305	1.39
13	2.7	*	1C28	192	I	6494	1.39
11	2.2	*	1C28	192	I	7972	1.39
9	1.8	*	1C28	240	I	9454	1.35

* Order By Description

MOTO DRIVE - Right Angle

3.0 Horsepower
10:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
420	42	M20C1205	2W21	10	I	396	2.64
331	33	*	2W21	12.7	I	503	2.64
280	28	*	2W28	15	I	578	2.57
233	23	M20C1017	2W28	18	I	689	2.55
210	21	M20C1206	2W28	20	I	759	2.53
168	17	M20C1207	2W28	25	I	945	2.52
140	14	*	2C21	30	II	1184	2.63
117	12	M20C1018	2C21	36	II	1421	2.63
105	11	*	2C21	40	I	1561	2.60
84	8.4	*	2C21	50	I	1951	2.60
70	7.0	*	2C21	60	I	2341	2.60
60	6.0	M20C1019	2C28	70	II	2679	2.55
49	4.9	M20C1208	2C28	86	II	3226	2.50
42	4.2	*	2C28	101	I	3789	2.50
35	3.5	*	2C28	121	I	4321	2.38
29	2.9	*	2C28	144	I	5143	2.38

* Order By Description

5:1 SPEED RANGE

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
350	70	*	2W21	10	I	475	2.64
280	56	M20E1200	2W21	10	I	599	2.66
230	46	*	2W21	12.7	I	729	2.66
190	38	*	2W28	20	I	902	2.72
155	31	M20E1202	2W28	20	I	1106	2.72
125	25	M20E1203	2W28	20	I	1371	2.72
100	20	M20E1204	2W28	25	I	1651	2.62
84	17	*	2C21	36	II	1695	2.26
68	14	*	2C21	40	I	2428	2.62
56	11	*	2C21	50	I	2937	2.61
45	9.0	*	2C21	60	I	3655	2.61
37	7.4	*	2C21	60	I	4446	2.61
30	6.0	*	2C28	86	II	5231	2.49
25	5.0	*	2C28	121	I	5950	2.36
20	4.0	*	2C28	144	I	7342	2.33
17	3.3	*	2C28	144	I	8811	2.33

* Order By Description

MOTO DRIVE - Right Angle

5.0 Horsepower
10:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
420	42	*	3W28	10	I	668	4.45
331	33	*	3C28	12.7	III	859	4.51
280	28	*	3C28	15	II	1008	4.48
233	23	*	3C28	18	II	1210	4.48
210	21	*	3C21	20	I	1366	4.55
168	17	*	3C21	25	I	1707	4.55
140	14	*	3C21	30	I	2017	4.48
117	12	*	3C21	36	I	2420	4.48
105	11	*	3C28	40	II	2629	4.38
84	8.4	*	3C28	50	I	3264	4.35
70	7	*	3C28	60	I	3917	4.35
60	6	*	3C28	70	I	4538	4.32
49	4.9	*	3C28	86	I	5523	4.28

* Order By Description

5:1 SPEED RANGE

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
420	84	M20E1400	2W28	7.5	I	681	4.54
350	70	M20E1401	2W28	7.5	I	818	4.54
280	56	*	2W28	10	I	1013	4.50
230	46	*	2W28	10	I	1233	4.50
190	38	*	2C21	20	I	1509	4.55
155	31	*	2C21	25	I	1850	4.55
125	25	M20E1402	2C21	25	I	2269	4.50
100	20	M20E1403	2C21	25	I	2836	4.50
84	17	*	2C21	36	I	3375	4.50
68	14	*	2C28	40	II	4124	4.45
56	11	*	2C28	50	I	4896	4.35
45	9	M20E1404	2C28	70	I	6092	4.35
37	7.4	M20E1405	2C28	70	I	7239	4.25
30	6	M20E1406	2C28	86	I	8929	4.25
25	5	*	2C28	86	I	10588	4.20

* Order By Description

MOTO DRIVE - Right Angle

7.50 Horsepower
10:1 SPEED RANGE

Please call our Product Specialists at
888-616-1094 for interchange options as the
ratings on this page have been discontinued.

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
420	42	*	3C28	10	II	1019	6.79
331	33	*	3C28	12.7	II	1294	6.79
280	28	*	3C28	15	II	1517	6.74
233	23	*	3C28	18	II	1821	6.74
210	21	*	3C28	20	II	2038	6.79
168	17	*	3C28	25	II	2547	6.79
140	14	*	3C28	30	I	3034	6.74
117	12	*	3C28	36	I	3641	6.74
105	11	*	3C28	40	I	4016	6.69
84	8.4	*	3C28	50	I	4974	6.63
70	7	*	3C28	60	I	5942	6.6

* Order By Description

5:1 SPEED RANGE

SPEED RANGE		PART NUMBER	SIZE	RATIO	GEAR CLASS	OUTPUT TORQUE IN/LBS	OUTPUT HP @ MAX RPM
MAX	MIN						
350	70	*	3C28	10	II	1203	6.68
280	56	*	3C28	10	II	1537	6.83
230	46	*	3C28	12.7	II	1850	6.75
190	38	*	3C28	20	II	2216	6.68
155	31	*	3C28	20	II	2745	6.75
125	25	*	3C28	20	II	3429	6.80
100	20	*	3C28	25	II	4305	6.83
84	17	*	3C28	30	I	5065	6.75
68	14	*	3C28	36	I	6251	6.75
56	11	*	3C28	40	I	7395	6.60

* Order By Description

APG

MASTER XL

COMBOGEAR

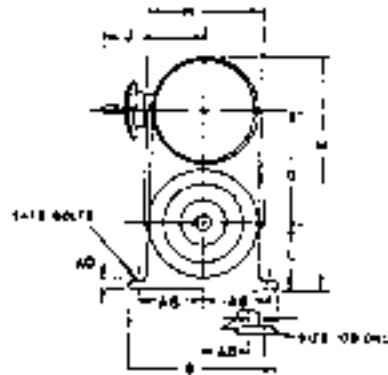
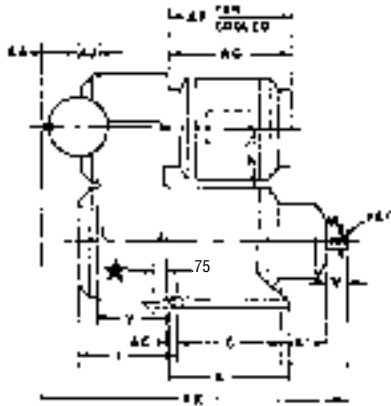
MOTO DRIVE

ULTIMA

PULLEYS

MOTO DRIVE - Parallel Vertical - No Reducer

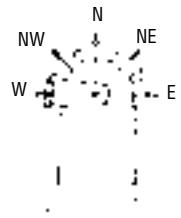
"C" FLOW



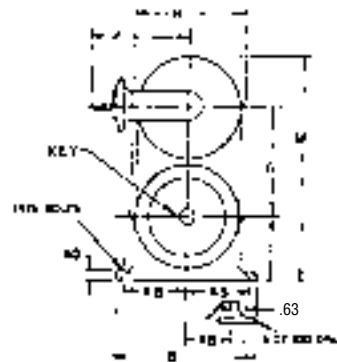
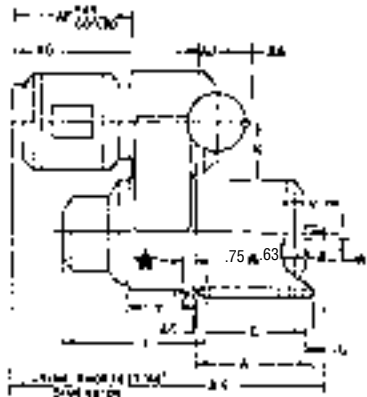
Assembly 100 Standard

"C" FLOW ASSEMBLY

100 Standard



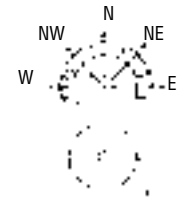
"Z" FLOW



100-EA Standard

"Z" FLOW ASSEMBLY

Assembly 100-EA Standard



"C" AND "Z" FLOW - SIZES 050 THRU 600K

Size	A	B	C	G	H	I	J	L	M
050	7.56	7.50	6.56	6.50	6.44	5.94	5.56	3.38	12.75
100	10.13	9.50	9.00	7.75	8.50	5.88	6.88	4.63	16.31
200	10.75	13.00	9.50	9.88	9.75	9.06	8.75	5.75	20.19
300	13.31	15.25	11.31	12.38	11.88	10.75	10.88	6.63	24.50
400	17.88	18.63	15.88	15.25	14.25	12.69	13.63	8.13	30.06
500	20.50	23.00	18.00	19.63	17.25	15.44	14.88	10.63	38.44
600 & 600K	24.50	3.50	22.00	20.75	18.25	16.06	14.88	10.63	40.13

Size	N	S	V	W*	Y	AA	AB	AC	AI
050	3.75	.37	1.56	.625	4.25	1.56	3.25	3.56	2.31
100	4.03	.50	2.31	.750	5.25	2.00	3.75	-	2.81
200	4.94	.50	2.88	1.000	6.25	3.13	5.69	1.31	3.25
300	6.38	.63	3.63	1.250	7.75	4.19	6.81	1.19	3.13
400	7.88	.75	4.37	1.500	9.25	5.00	8.38	1.19	3.56
500	40.63	.88	5.88	2.000	11.00	6.00	10.25	1.50	4.00
600 & 600K	11.56	.88	7.00	2.375	11.50	7.00	10.50	1.50	4.69

* Shaft Tolerance: +.000/- .0005" through 1.125" dia., +.000/- .001" others

Size	Z-Flow Only						
	AJ	AK	AQ	Key	I	U	AK
050	.81	17.63	.44	3/16 sq X 1.00	8.13	1.69	23.13
100	.88	21.50	.50	3/16 sq X 1.75	8.56	2.94	26.31
200	1.56	26.88	.88	1/4 sq X 2.06	13.56	2.38	30.69
300	1.75	32.94	1.25	1/4 sq X 2.19	16.56	2.44	35.25
400	2.44	41.69	1.25	3/8 sq X 3.44	19.88	2.69	43.56
500	3.44	49.19	1.50	1/2 sq X 4.75	23.88	4.25	43.44
600 & 600K	4.75	58.44	1.50	5/8 sq x 5.88	26.69	4.50	59.88

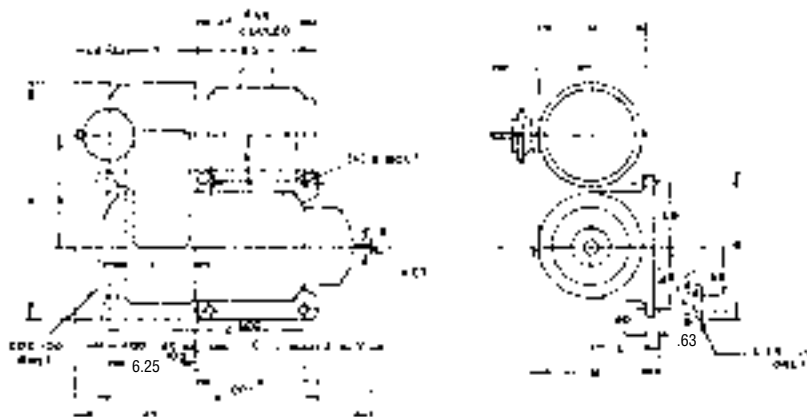
All dimensions are in inches

NOTE: 050 available in handwheel locations W, N, E only

MOTO DRIVE - Parallel

Horizontal No Reducer

“C” FLOW

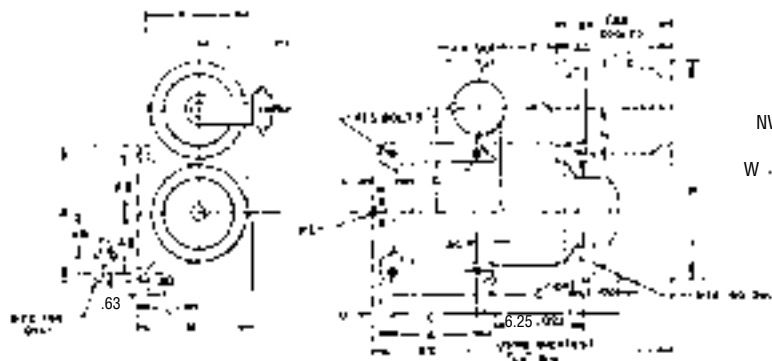


“C” FLOW ASSEMBLY

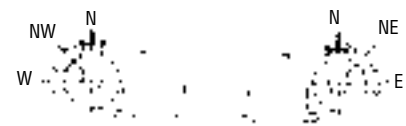


Assembly 111

“Z” FLOW



“Z” FLOW ASSEMBLY



Assembly 111-EA

“C” AND “Z” FLOW

Size	A	B	C	G	H	I	J	L	M
050	7.31	7.50	6.56	6.50	6.44	5.94	5.56	3.38	6.63
100	15.75	9.63	14.50	7.75	8.50	38.00	6.88	4.88	9.13
200	10.75	13.00	8.50	9.88	9.75	9.06	8.75	5.75	11.25
300	13.31	15.25	11.69	12.38	11.88	10.75	10.88	6.63	13.13
400	17.88	18.63	15.88	15.25	14.25	12.69	13.63	8.13	16.06
500	20.50	23.00	18.00	19.63	17.25	15.44	14.88	10.63	20.44
600 & 600K	24.50	23.50	22.00	20.75	18.50	16.06	14.88	10.63	20.88

Size	N	P	S	V	W*	V	AA	AB	AC	AI
050	3.75	13.88	.38	1.56	.625	4.25	1.56	3.25	.56	2.31
100	4.03	16.50	.5	2.31	.750	5.25	2.00	3.75	-	2.81
200	4.94	20.94	.5	2.88	1.000	6.25	3.13	5.69	1.31	3.25
300	6.38	25.50	.63	3.63	1.250	7.75	4.19	6.81	1.19	3.13
400	7.88	31.75	.75	4.38	1.500	9.25	5.00	8.38	1.19	3.56
500	10.63	39.31	.88	4.88	2.000	11.00	6.00	10.25	1.50	4.00
600 & 600K	11.56	41.25	.88	7.00	2.375	11.50	7.00	10.50	1.50	4.69

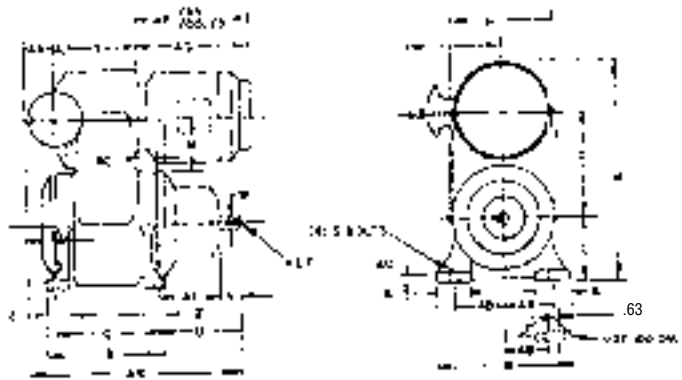
* Shaft Tolerance: +.000/-0.0005" through 1.125" dia., +.000/-0.001" others

Size	AJ	AK	AQ	Key	Z-Flow Only		
					I	U	AK
050	.81	17.63	.44	3/16 sq X 1.00	8.13	1.69	23.19
100	.88	21.50	.75	3/16 sq X 1.75	8.56	2.94	26.31
200	1.56	26.88	.88	1/4 sq X 2.06	13.56	2.38	30.69
300	1.75	32.94	1.25	1/4 sq X 2.81	16.56	2.44	35.25
400	2.44	41.69	1.25	3/8 sq X 3.44	19.88	2.69	43.56
500	3.44	49.81	1.50	1/2 sq X 4.75	23.88	4.25	43.44
600 & 600K	4.75	58.44	1.50	5/8 sq x 5.88	26.69	4.50	59.88

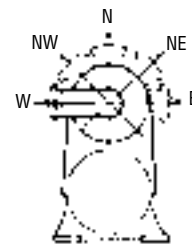
All dimensions are in inches

MOTO DRIVE - Parallel

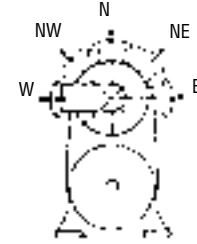
Vertical Trunnion No Reducer



Assembly 106

"C" FLOW**"C" FLOW ASSEMBLY**

106

"Z" FLOW ASSEMBLY

106-A

"C" AND "Z" FLOW - SIZES 050 THRU 600K

Size	A	B	C	K	G	H	I	J	L	M
050	7.31	7.50	6.56	2.00	6.50	6.44	.50	5.56	3.38	12.75
100	15.75	9.63	14.50	2.00	7.75	8.50	.69	6.88	4.13	15.94
200	10.75	13.00	8.50	3.50	9.88	9.75	1.31	8.75	5.75	20.19
300	13.31	15.25	11.69	4.00	12.38	11.88	1.50	10.88	6.63	24.50
400	17.88	18.63	15.88	5.00	15.25	14.25	2.06	13.63	8.13	30.06
500	20.50	23.00	18.00	6.00	19.63	17.25	2.69	14.88	10.63	38.44
600 & 600K	24.50	23.50	2.00	6.00	20.75	18.50	2.81	14.88	10.63	40.13

Size	N	S	V	W*	V	AA	AB	AC	AI
050	3.75	.38	1.56	.625	4.25	1.56	2.75	1.38	2.69
100	4.03	.50	2.31	.750	5.25	2.00	3.75	1.69	2.88
200	4.94	.50	2.88	1.000	6.25	3.13	4.75	1.69	5.81
300	6.38	.63	3.63	1.250	7.75	4.19	5.63	2.19	7.31
400	7.88	.75	4.38	1.500	9.25	5.00	6.81	2.44	9.25
500	10.63	.88	4.88	2.000	11.00	6.00	8.50	3.13	11.13
600 & 600K	11.56	.88	7.00	2.375	11.50	7.00	8.75	3.13	13.44

* Shaft Tolerance: +.000/-0.0005" through 1.125" dia., +.000/-0.001" others

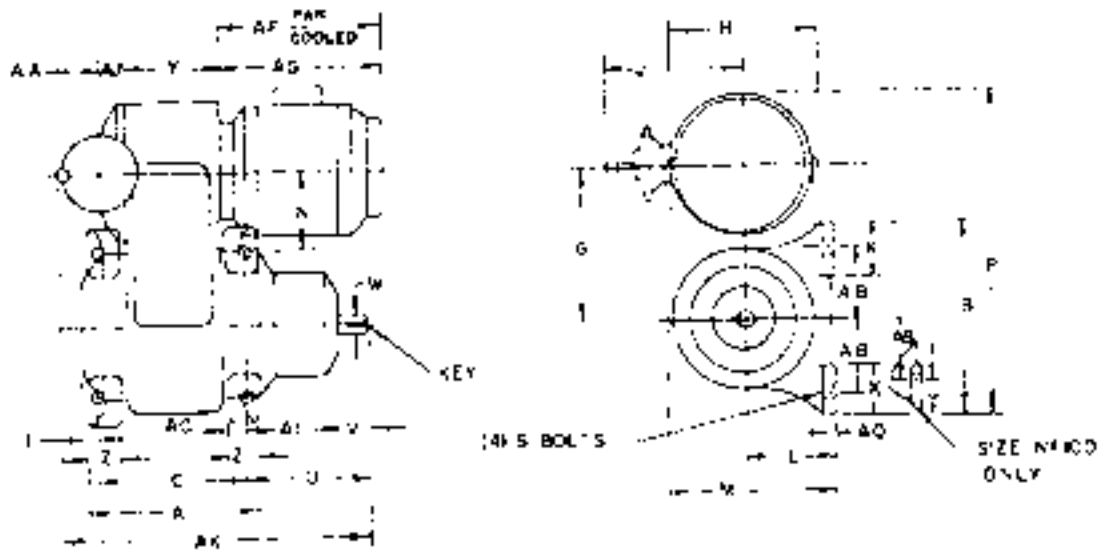
Size	AJ	AK	AQ	Z	Key	Z-Flow Only		
						I	U	AK
050	.81	12.25	.44	1.94	3/16 sq X 1.00	2.69	2.06	17.75
100	.88	15.00	.50	2.13	3/16 sq X 1.75	2.88	3.00	19.81
200	1.56	21.31	.88	2.50	1/4 sq X 2.06	5.81	4.19	24.38
300	1.75	26.81	1.25	3.25	1/4 sq X 2.81	7.31	5.13	27.88
400	2.44	32.75	1.25	3.75	3/8 sq X 3.44	9.25	6.44	32.69
500	3.44	40.56	1.50	4.88	1/2 sq X 4.75	11.13	8.56	41.38
600 & 600K	4.75	46.81	1.50	4.88	5/8 sq X 5.88	13.44	9.81	44.81

NOTE: 050 available in handwheel locations W, N, E only

All dimensions are in inches

MOTO DRIVE - Parallel

Horizontal Trunnion No Reducer

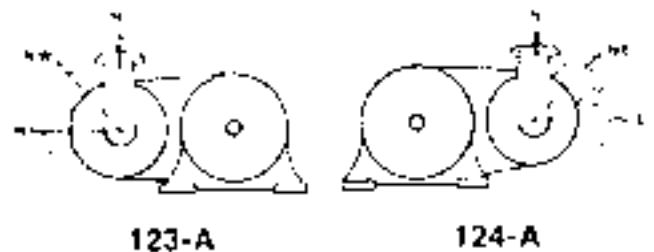


“C” FLOW

“C” FLOW ASSEMBLIES



“Z” FLOW ASSEMBLIES



MOTO DRIVE - Parallel

Horizontal Trunnion No Reducer

"C" AND "Z" FLOW

Size	A	B	C	K	G	H	I	J	L	M
050	8.25	7.50	6.56	2.00	6.50	6.44	.50	5.56	3.38	6.63
100	9.75	9.63	14.50	2.00	7.75	8.50	.69	6.88	4.13	8.50
200	11.63	13.00	8.50	3.50	9.88	9.75	1.31	8.75	5.75	11.25
300	14.63	15.25	11.69	4.00	12.38	11.88	1.50	10.88	6.63	13.13
400	17.13	18.63	15.88	5.00	15.25	14.25	2.06	13.63	8.13	16.06
500	21.25	23.00	18.00	6.00	19.63	17.25	2.69	14.88	10.63	20.44
600 & 600K	21.75	23.50	22.00	6.00	20.75	18.50	2.81	14.88	10.63	20.88

Size	N	P	S	V	W	Y	AA	AB	AC	AI
050	3.75	13.88	.38	1.56	.625	4.25	1.56	2.75	1.38	2.69
100	4.03	16.50	.50	2.31	.750	5.25	2.00	3.75	1.69	2.88
200	4.94	20.94	.50	2.88	1.000	6.25	3.13	4.75	1.69	5.81
300	6.38	25.50	.63	3.63	1.250	7.75	4.19	5.63	2.19	7.31
400	7.88	31.75	.75	4.38	1.500	9.25	5.00	6.81	2.44	9.25
500	10.63	39.31	.88	4.88	2.000	11.00	6.00	8.50	3.13	11.13
600 & 600K	11.56	41.25	.88	7.00	2.375	11.50	7.00	8.75	3.13	13.44

* Shaft Tolerance: +.000/- .0005" through 1.125" dia., +.000/- .001" others

Size	AJ	AK	AQ	Z	Key	Z-Flow Only		
						I	U	AK
050	.81	12.25	.44	1.94	3/16 sq X 1.00	2.69	2.06	17.75
100	.88	15.00	.50	2.13	3/16 sq X 1.75	2.88	3.00	19.81
200	1.56	21.31	.88	2.50	1/4 sq X 2.06	5.81	4.19	24.38
300	1.75	26.81	1.25	3.25	1/4 sq X 2.81	7.31	5.13	27.88
400	2.44	32.75	1.25	3.75	3/8 sq X 3.44	9.25	6.44	32.69
500	3.44	40.56	1.50	4.88	1/2 sq X 4.75	11.13	8.56	41.38
600 & 600K	4.75	46.81	1.50	4.88	5/8 sq X 5.88	13.44	9.81	44.81

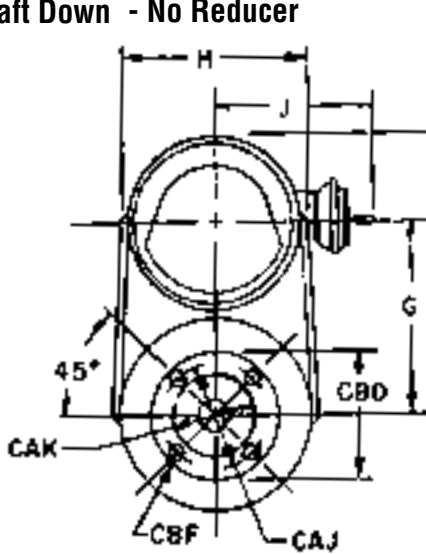
All dimensions are in inches

MOTO DRIVE - Parallel

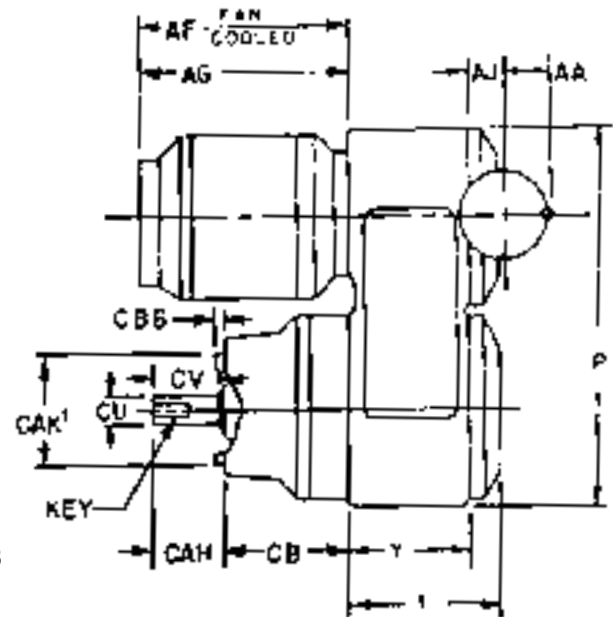
NEMA "C" FACE

Output Shaft Down - No Reducer

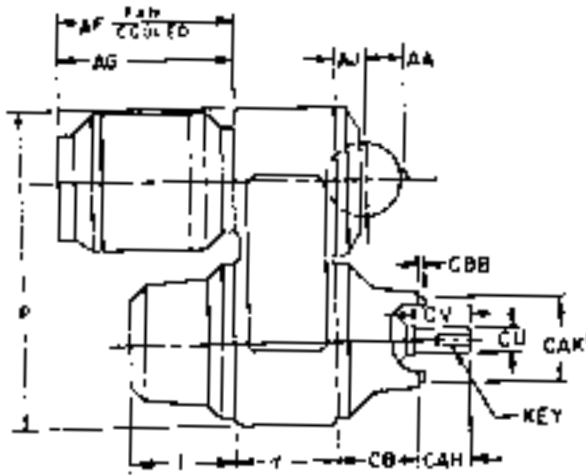
"C" FLOW



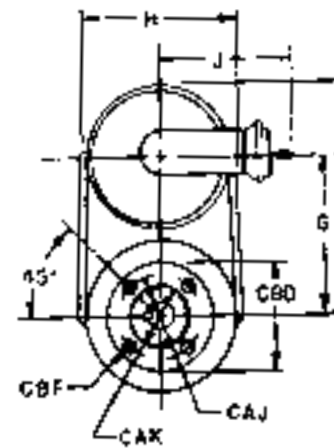
ASSEMBLY 168



"Z" FLOW



ASSEMBLY 168-A



Size	Output Mounting	G	H	I	J	P	Y	AA	AJ	CB(1)	CU*	CV
050	56C(4)	6.50	6.44	5.38	5.56	12.25	4.25	1.56	.81	2.25	.625	1.94
100	140TC(4)	7.75	8.50	6.63	6.88	15.63	5.25	2.00	.88	4.63	.875	2.38
200	180TC	9.88	9.75	7.75	8.75	19.56	6.25	3.13	1.56	7.00	1.125	2.88
300	210TC	12.38	11.88	9.56	10.88	24.00	7.75	4.19	1.75	7.00	1.375	3.38

* Shaft Tolerance: +.000/-0.0005" through 1.125" dia., +.000/-0.001" others

Size	CAH	CAJ	CAK	CAK1	CBB	CBD	CBF	Key	Z-Flow Only	
									I	CB(2)
050	2.06	5.88	4.50	-	.13	6.50	.38-16	3/16 sq. X 1.38	3.56	2.25(3)
100	2.13	5.88	4.50	-	.19	6.63	.38-16	3/16 sq. X 12/8	3.56	4.63(3)
200	2.63	7.25	-	8.50	.25	9.00	.50-13	1/4 sq. X 1.75	6.00	5.13
300	3.13	7.25	-	8.50	.25	9.00	.50-13	5/16 sq. X 2.38	7.63	4.38

(1) Extended Assembly - Add 7.5 (050), 7.5 (100), 9-1/8 (200) or 11 (300) to CB Dimension.

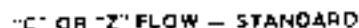
(2) Extended Assembly - Add 1.88 (200) or 2-5/8 (300) to CB Dimension.

(3) Not available in Extended Assembly.

(4) Not available in Assembly 168-EA.

All dimensions are in inches

Foot Mounting with NEMA "C" Face Output



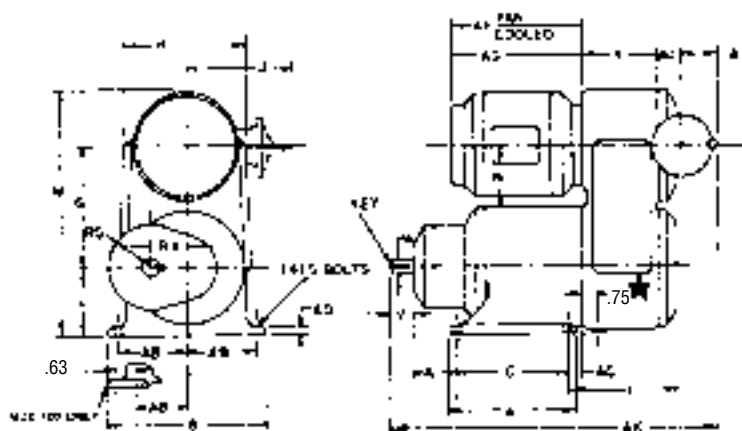
For Foot-Mounted MOTO DRIVE No Reducer - Sizes 050, 100, 200, 300

All dimensions are in inches.

HORIZONTAL
253-A

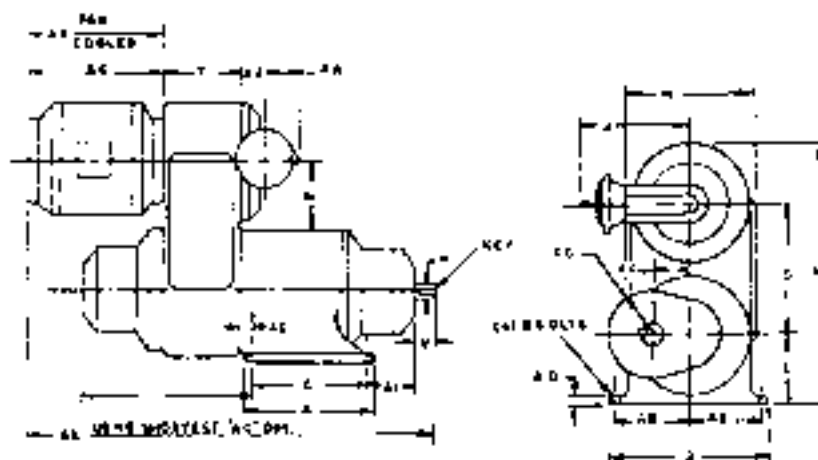
APG

MASTER XL



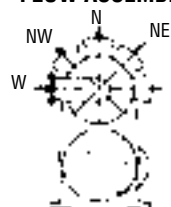
Assembly 101

COMBOGEAR

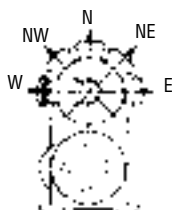


Assembly 101-A

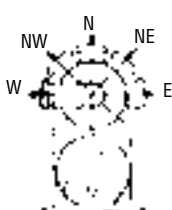
MOTO DRIVE



101

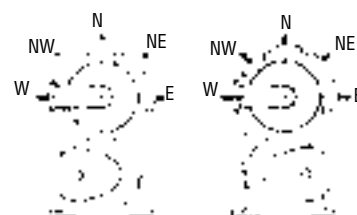


102



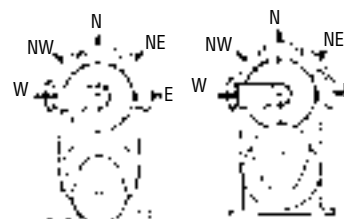
103

ULTIMA



101-A

102-A



103-A

104-A

MOTO DRIVE - Parallel

Vertical Single Reducer

“C” AND “Z” FLOW - SIZES 050 THRU 600K

Size	A	B	C	G	H	I	J	L	M
051	7.56	7.50	6.56	6.50	6.44	5.94	5.56	3.38	12.75
111	10.13	9.50	9.00	7.75	8.50	5.88	6.88	4.63	16.31
121	10.13	9.50	9.00	7.75	8.50	5.88	6.88	4.63	16.94
221	10.75	13.00	8.50	9.88	9.75	9.06	8.75	5.75	20.19
231	10.75	13.00	8.50	9.88	9.75	9.06	8.75	5.75	20.19
331	13.56	15.25	11.56	12.38	11.88	10.75	10.88	6.63	24.50
341	13.56	15.25	11.56	12.38	11.88	10.75	10.88	6.63	24.50
441	17.88	18.63	15.88	15.25	14.25	12.69	13.63	8.13	30.06
451	17.88	18.63	15.88	15.25	14.25	12.69	13.63	8.13	30.06
551	20.50	23.00	18.00	19.63	17.25	15.44	14.88	10.63	38.44
561	20.50	23.00	18.00	19.63	17.25	15.44	14.88	10.63	38.44
661 & 661K	24.50	23.50	22.00	20.75	18.50	16.06	14.88	10.63	40.13

Size	N	S	V	W*	Y	AA	AB	AC	AI
051	3.75	.38	1.63	.750	4.25	1.56	3.25	.56	2.31
111	4.03	.50	2.00	.9375	5.25	2.00	3.75	*	2.81
121	4.03	.50	2.88	1.375	5.25	2.00	3.75	*	4.50
221	4.94	.50	2.88	1.375	6.25	3.13	5.69	1.31	3.25
231	41.94	.50	3.63	1.750	6.50	3.13	5.69	1.31	5.13
331	6.38	.63	3.63	1.750	7.75	4.19	6.81	1.19	3.13
341	6.38	.63	4.38	2.125	7.75	4.19	6.81	1.19	7.00
441	7.88	.75	4.38	2.125	9.25	5.00	8.38	1.19	3.44
451	7.88	.75	5.13	2.500	9.25	5.00	8.38	1.19	8.75
551	10.63	.88	5.13	2.500	11.00	6.00	10.25	1.50	4.00
561	10.63	.88	5.88	2.875	11.00	6.00	10.25	1.50	10.00
661 & 661K	11.56	.88	5.88	2.875	11.50	7.00	10.50	1.50	4.69

* Shaft Tolerance: +.000/- .0005" through 1.125" dia., +.000/- .001" others

Size	AJ	AK	AQ	RG	RX	Key	Z-Flow Only	
							I	AK
051	.81	17.68	.44	2.13	1.50	3/16 sq X 1.00	8.13	25.38
111	.88	21.19	.50	2.75	2.44	1/4 sq X 1.19	8.06	28.19
121	.88	23.75	.50	3.50	2.75	5/16 sq X 2.00	8.06	30.75
221	1.56	26.88	.88	3.50	2.75	5/16 sq X 2.00	13.56	34.44
231	1.56	29.50	.88	4.13	3.44	3/8 sq X 2.69	13.56	37.06
331	1.75	32.94	1.25	4.13	3.44	3/8 sq X 2.69	16.56	39.56
341	1.75	37.56	1.25	4.88	4.25	1/2 sq X 3.38	16.56	44.19
441	2.44	41.56	1.25	4.88	4.25	1/2 sq X 3.38	19.88	48.69
451	2.44	47.63	1.25	5.88	5.13	5/8 sq X 3.94	19.88	54.75
551	3.44	49.06	1.50	5.88	5.13	5/8 sq X 3.94	23.88	58.31
561	3.44	55.81	1.50	7.00	6.19	3/4 sq X 4.63	23.88	65.06
661 & 661K	4.75	57.44	1.50	7.00	6.19	3/4 sq X 4.63	26.69	65.94

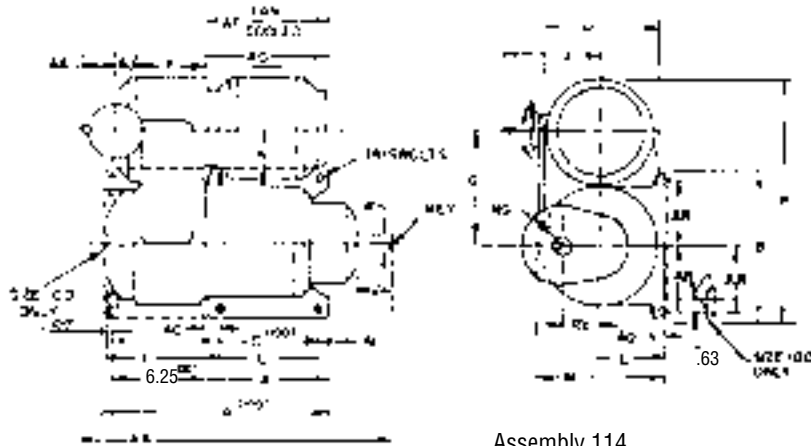
NOTE: 050 available in handwheel locations W, N, E only.

All dimensions are in inches.

MOTO DRIVE - Parallel

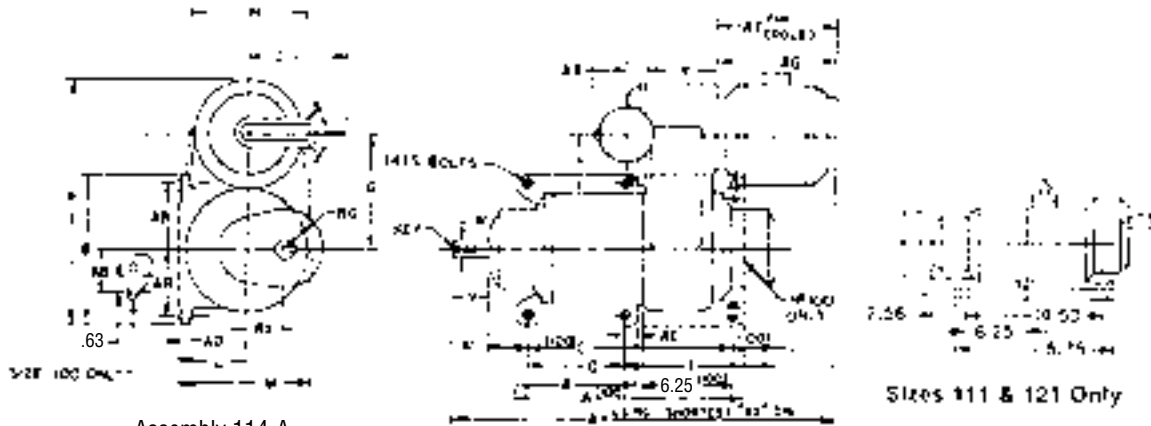
Horizontal Single Reducer

"C" FLOW



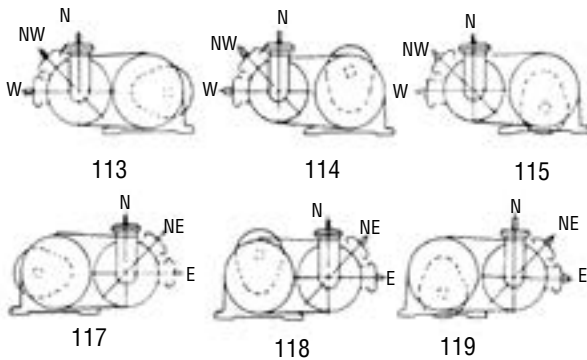
Assembly 114

"Z" FLOW

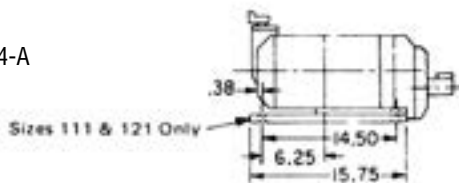


Assembly 114-A

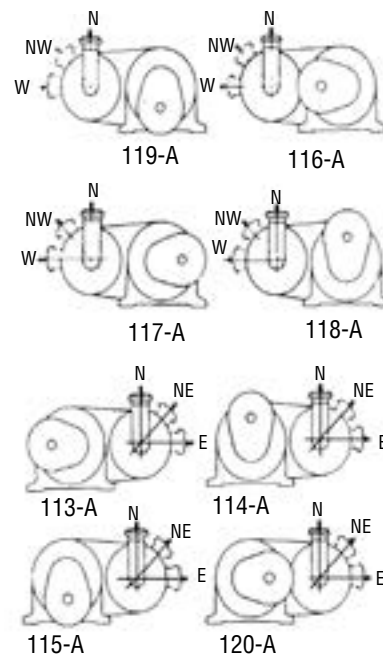
"C" FLOW ASSEMBLIES



Assembly 114-A



"Z" FLOW ASSEMBLIES



All dimensions are in inches

MOTO DRIVE - Parallel

Horizontal Single Reducer

“C” AND “Z” FLOW - SIZES 050 THRU 600K

Size	A	B	C	G	H	I	J	L	M	
051	7.56	7.50	6.56	6.50	6.44	5.94	5.56	3.38	6.63	3.75
111	15.75	9.63	14.50	7.75	8.50	.38	6.88	4.88	9.13	4.03
121	15.75	9.63	14.50	7.75	8.50	.38	6.88	4.88	9.13	4.03
221	10.75	13.00	8.50	9.88	9.75	9.06	8.75	5.75	11.25	4.94
231	10.75	13.00	8.50	9.88	9.75	9.06	8.75	5.75	11.25	4.94
331	13.56	15.25	11.56	12.38	11.88	10.75	10.88	6.63	13.13	6.38
341	13.56	15.25	11.56	12.38	11.88	10.75	10.88	6.63	13.13	6.38
441	17.88	18.63	15.88	15.25	14.25	12.69	13.63	8.13	16.06	7.88
451	17.88	18.63	15.88	15.25	14.25	12.69	13.63	8.13	16.06	7.88
551	20.50	23.00	18.00	19.63	17.25	15.44	14.88	10.63	20.44	10.63
561	20.50	23.00	18.00	19.63	17.25	15.44	14.88	10.63	20.44	10.63
661 & 661K	24.50	23.50	22.00	20.75	18.50	16.06	14.88	10.63	20.88	11.56

Size	P	S	V	W*	Y	AA	AB	AC	AI	AJ
051	13.13	.38	1.63	.750	4.25	1.56	3.25	.56	2.31	.81
111	16.50	.50	2.00	.9375	5.25	2.00	3.75	*	2.81	.88
121	16.50	.50	2.88	1.375	5.25	2.00	3.75	*	4.50	.88
221	20.94	.50	2.88	1.375	6.25	3.13	5.69	1.31	3.25	1.56
231	20.94	.50	3.63	1.750	6.50	3.13	5.69	1.31	5.13	1.56
331	25.50	.63	3.63	1.750	7.75	4.19	6.81	1.19	3.13	1.75
341	25.50	.63	4.38	2.125	7.75	4.19	6.81	1.19	7.00	1.75
441	31.25	.75	4.38	2.125	9.25	5.00	8.38	1.19	3.44	2.44
451	31.25	.75	5.13	2.500	9.25	5.00	8.38	1.19	8.75	2.44
551	39.31	.88	5.13	2.500	11.00	6.00	10.25	1.50	4.00	3.44
561	39.31	.88	5.88	2.875	11.00	6.00	10.25	1.50	10.00	3.44
661 & 661K	41.25	.88	5.88	2.875	11.50	7.00	10.50	1.50	4.69	4.75

* Shaft Tolerance: +.000/-0.0005" through 1.125" dia., +.000/-0.001" others

Size	AK	AQ	RG	RX	Key	Z-Flow Only	
						I	AK
051	17.68	.44	2.13	1.50	3/16 sq X 1.00	8.13	25.38
111	21.19	.50	2.75	2.44	1/4 sq X 1.19	8.06	28.19
121	23.75	.50	3.50	2.75	5/16 sq X 2.00	8.06	30.75
221	26.88	.88	3.50	2.75	5/16 sq X 2.00	13.56	34.44
231	29.50	.88	4.13	3.44	3/8 sq X 2.69	13.56	37.06
331	32.94	1.25	4.13	3.44	3/8 sq X 2.69	16.56	39.56
341	37.56	1.25	4.88	4.25	1/2 sq X 3.38	16.56	44.19
441	41.56	1.25	4.88	4.25	1/2 sq X 3.38	19.88	48.69
451	47.63	1.25	5.88	5.13	5/8 sq X 3.94	19.88	54.75
551	49.06	1.50	5.88	5.13	5/8 sq X 3.94	23.88	58.31
561	55.81	1.50	7.00	6.19	3/4 sq X 4.63	23.88	65.06
661 & 661K	57.44	1.50	7.00	6.19	3/4 sq X 4.63	26.69	65.94

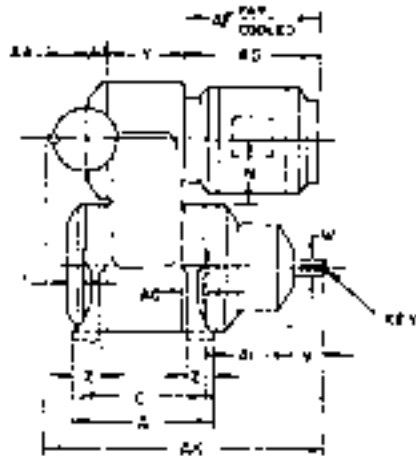
NOTE: 050 available in handwheel locations W, N, E only.

All dimensions are in inches.

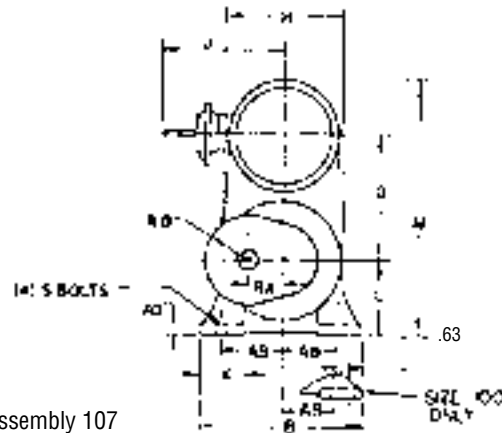
MOTO DRIVE - Parallel

Vertical Trunnion Single Reducer

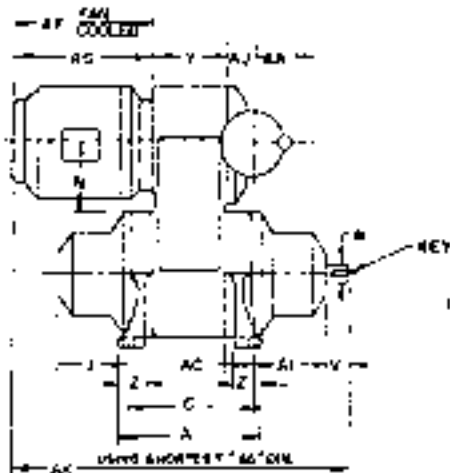
"C" FLOW



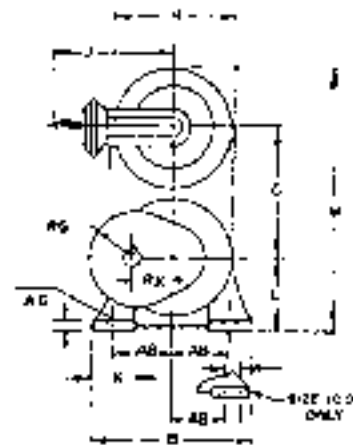
Assembly 107



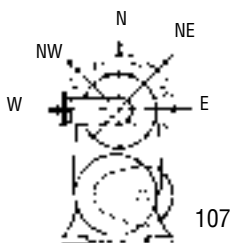
"Z" FLOW



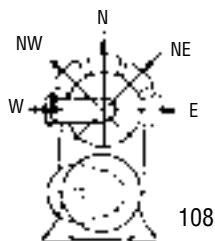
Assembly 107-A



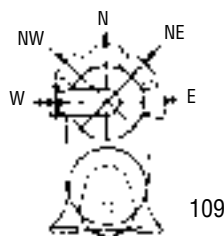
"C" FLOW ASSEMBLIES



107



108



109

"Z" FLOW ASSEMBLIES



107-A



108-A



109-A



110-A

MOTO DRIVE - Parallel

Vertical Trunnion Single Reducer

"C" AND "Z" FLOW - SIZES 050 THRU 600K

Size	A	B	C	K	G	H	I	J	L	M
51	8.25	7.50	7.00	2.00	6.50	6.44	.50	5.56	3.38	12.75
111	9.75	9.50	8.63	2.00	7.75	8.50	.69	6.88	4.63	16.31
121	11.63	9.50	8.63	2.00	7.75	8.50	.69	6.88	4.63	16.94
221	11.63	13.00	9.63	3.50	9.88	9.75	1.31	8.75	5.75	20.19
231	14.63	13.00	9.63	3.50	9.88	9.75	1.31	8.75	5.75	20.19
331	14.63	15.25	12.13	4.00	12.38	11.88	1.50	10.88	6.63	24.50
341	17.13	15.25	12.13	4.00	12.38	11.88	1.50	10.88	6.63	24.50
441	17.13	18.63	14.13	5.00	15.25	14.25	2.06	13.63	8.13	30.06
451	21.50	18.63	14.13	5.00	15.25	14.25	2.06	13.63	8.13	30.06
551	21.25	23.00	17.25	6.00	19.63	17.25	2.69	14.88	10.63	38.44
561		23.00	17.25	6.00	19.63	17.25	2.69	14.88	10.63	38.44
661 & 661K	21.75	23.50	17.75	6.00	20.75	18.50	2.81	14.88	10.63	40.13

Size	N	S	V	W*	Z	AA	AB	AC	AI
51	3.75	.38	1.63	.750	1.94	1.56	2.75	1.38	2.69
111 †	4.03	.50	2.00	.9375	2.13	2.00	3.75	1.69	3.44
121 †	4.03	.50	2.88	1.375	2.13	2.00	3.75	1.69	5.13
221	4.94	.50	2.88	1.375	2.50	3.13	4.75	1.69	3.94
231	41.94	.50	3.63	1.750	2.50	3.13	4.75	1.69	7.81
331	6.38	.63	3.63	1.750	3.25	4.19	5.63	2.19	8.44
341	6.38	.63	4.38	2.125	3.25	4.19	5.63	2.19	10.31
441	7.88	.75	4.38	2.125	3.75	5.00	6.81	2.44	11.31
451	7.88	.75	5.13	2.500	3.75	5.00	6.81	2.44	12.50
551	10.63	.88	5.13	2.500	4.88	6.00	8.50	3.13	12.81
561	10.63	.88	5.88	2.875	4.88	6.00	8.50	3.13	14.25
661 & 661K	11.56	.88	5.88	2.875	4.88	7.00	8.75	3.13	15.31

* Shaft Tolerance: +.000/- .0005" through 1.125" dia., +.000/- .001" others

Size	AJ	AK	AQ	RG	RX	Key	Z-Flow Only		
							I	AK	AI
51	.81	17.68	.44	2.13	1.50	3/16 sq X 1.00	2.69	20.00	2.69
111	.88	21.19	.50	2.75	2.44	1/4 sq X 1.19	2.88	21.75	2.88
121	.88	23.75	.50	3.50	2.75	5/16 sq X 2.00	2.88	24.25	4.56
221	1.56	26.88	.88	3.50	2.75	5/16 sq X 2.00	5.81	28.13	5.06
231	1.56	29.50	.88	4.13	3.44	3/8 sq X 2.69	5.81	29.75	5.94
331	1.75	32.94	1.25	4.13	3.44	3/8 sq X 2.69	7.31	31.94	5.81
341	1.75	37.56	1.25	4.88	4.25	1/2 sq X 3.38	7.31	33.94	7.06
441	2.44	41.56	1.25	4.88	4.25	1/2 sq X 3.38	9.25	37.81	7.19
451	2.44	47.63	1.25	5.88	5.13	5/8 sq X 3.94	9.25	39.75	8.38
551	3.44	49.06	1.50	5.88	5.13	5/8 sq X 3.94	11.13	46.25	8.31
561	3.44	55.81	1.50	7.00	6.19	3/4 sq X 4.63	11.13	53.06	14.38
661 & 661K	4.75	57.44	1.50	7.00	6.19	3/4 sq X 4.63	13.44	51.13	10.25

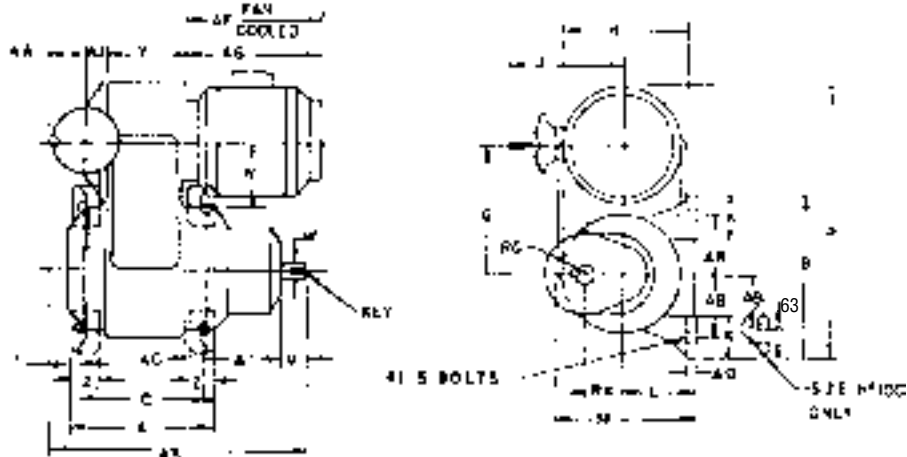
NOTE: 050 available in handwheel locations W, N, E only.

All dimensions are in inches.

MOTO DRIVE - Parallel

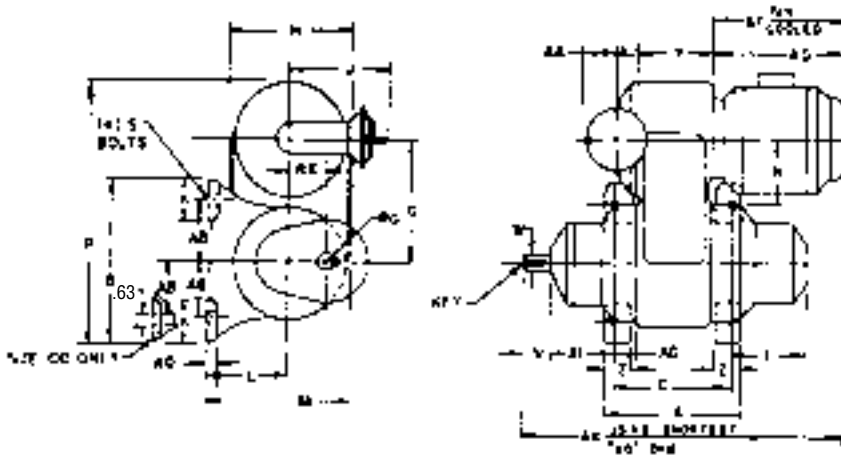
Horizontal Trunnion Single Reducer

“C” FLOW



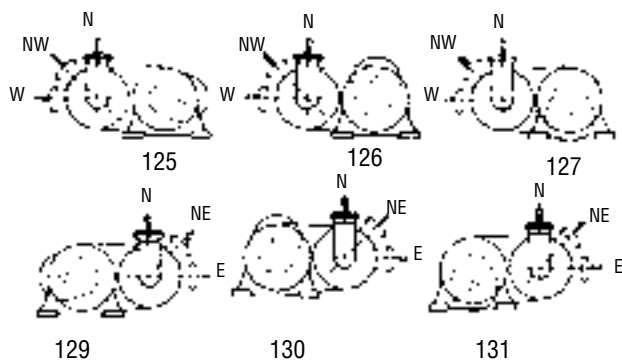
Assembly 126

“Z” FLOW

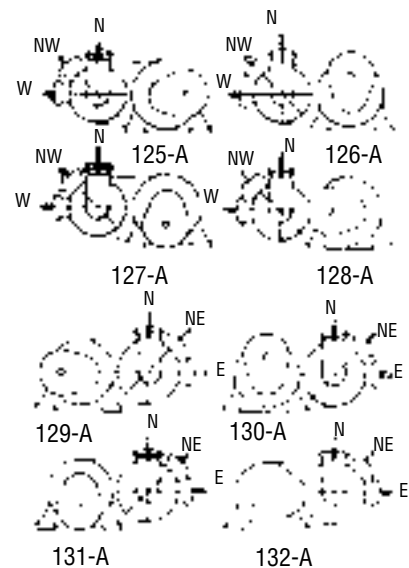


Assembly 126-A

“C” FLOW ASSEMBLIES



“Z” FLOW ASSEMBLIES



MOTO DRIVE - Parallel

Horizontal Trunnion Single Reducer

“C” AND “Z” FLOW - SIZES 050 THRU 600K

Size	A	B	C	K	G	H	I	J	L	M
051	8.25	7.50	7.00	2.00	6.50	6.44	.50	5.56	3.38	6.63
111	9.75	9.50	8.63	2.00	7.75	8.50	.69	6.88	4.63	9.13
121	11.63	9.50	8.63	2.00	7.75	8.50	.69	6.88	4.63	9.13
221	11.63	13.00	9.63	3.50	9.88	9.75	1.31	8.75	5.75	11.25
231	14.63	13.00	9.63	3.50	9.88	9.75	1.31	8.75	5.75	11.25
331	14.63	15.25	12.13	4.00	12.38	11.88	1.50	10.88	6.63	13.13
341	17.13	15.25	12.13	4.00	12.38	11.88	1.50	10.88	6.63	13.13
441	17.13	18.63	14.13	5.00	15.25	14.25	2.06	13.63	8.13	16.06
451	21.5	18.63	14.13	5.00	15.25	14.25	2.06	13.63	8.13	16.06
551	21.25	23.00	17.25	6.00	19.63	17.25	2.69	14.88	10.63	20.44
561	21.25	23.00	17.25	6.00	19.63	17.25	2.69	14.88	10.63	20.44
661 & 661K	21.75	23.50	17.75	6.00	20.75	18.50	2.81	14.88	10.63	20.88

Size	N	P	S	V	W*	Z	AA	AB	AC
051	3.75	13.13	.38	1.63	.750	1.94	1.56	2.75	1.38
111†	4.03	16.50	.50	2.00	.9375	2.13	2.00	3.75	1.69
121†	4.03	16.50	.50	2.88	1.375	2.13	2.00	3.75	1.69
221	4.94	20.94	.50	2.88	1.375	2.50	3.13	4.75	1.69
231	41.94	20.94	.50	3.63	1.750	2.50	3.13	4.75	1.69
331	6.38	25.50	.63	3.63	1.750	3.25	4.19	5.63	2.19
341	6.38	25.50	.63	4.38	2.125	3.25	4.19	5.63	2.19
441	7.88	31.25	.75	4.38	2.125	3.75	5.00	6.81	2.44
451	7.88	31.25	.75	5.13	2.500	3.75	5.00	6.81	2.44
551	10.63	39.31	.88	5.13	2.500	4.88	6.00	8.50	3.13
561	10.63	39.31	.88	5.88	2.875	4.88	6.00	8.50	3.13
661 & 661K	11.56	41.25	.88	5.88	2.875	4.88	7.00	8.75	3.13

* Shaft Tolerance: +.000/-0.0005" through 1.125" dia., +.000/-0.001" others

Size	AI	AJ	AK	AQ	RG	RX	Key	Z-Flow Only		
								I	AK	AI
051	2.69	.81	17.68	.44	2.13	1.50	3/16 sq X 1.00	2.69	20.00	2.69
111	3.44	.88	21.19	.50	2.75	2.44	1/4 sq X 1.19	2.88	21.75	2.88
121	5.13	.88	23.75	.50	3.50	2.75	5/16 sq X 2.00	2.88	24.25	4.56
221	3.94	1.56	26.88	.88	3.50	2.75	5/16 sq X 2.00	5.81	28.13	5.06
231	7.81	1.56	29.50	.88	4.13	3.44	3/8 sq X 2.69	5.81	29.75	5.94
331	8.44	1.75	32.94	1.25	4.13	3.44	3/8 sq X 2.69	7.31	31.94	5.81
341	10.31	1.75	37.56	1.25	4.88	4.25	1/2 sq X 3.38	7.31	33.94	7.06
441	11.31	2.44	41.56	1.25	4.88	4.25	1/2 sq X 3.38	9.25	37.81	7.19
451	12.50	2.44	47.63	1.25	5.88	5.13	5/8 sq X 3.94	9.25	39.75	8.38
551	12.81	3.44	49.06	1.50	5.88	5.13	5/8 sq X 3.94	11.13	46.25	8.31
561	14.25	3.44	55.81	1.50	7.00	6.19	3/4 sq X 4.63	11.13	53.06	14.38
661 & 661K	15.31	4.75	57.44	1.50	7.00	6.19	3/4 sq X 4.63	13.44	51.13	10.25

† Add 1 inch to AI and AK dimension for assemblies 128-A and 132-A

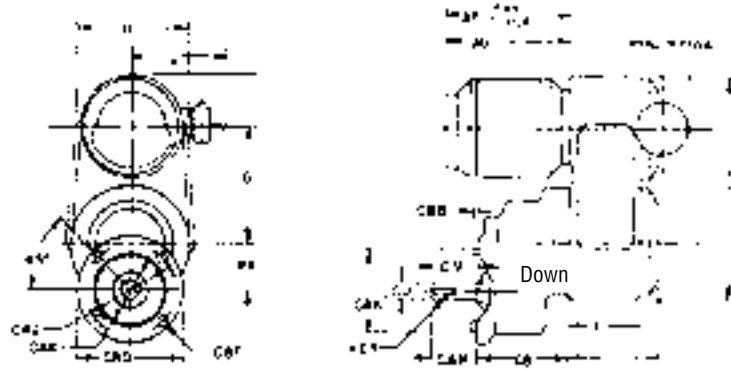
All dimensions are in inches.

MOTO DRIVE - Parallel

NEMA "C" Face

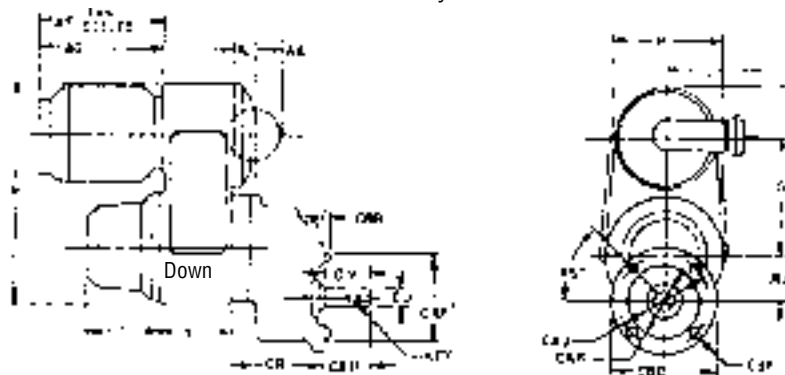
Output Shaft Down - Single Reducer

"C" FLOW



Assembly 167

"Z" FLOW



Assembly 167-A

Size	Output Mounting	G	H	I	J	P	Y	AA	AJ	CB	CU*	CV
051	56C	6.50	6.44	5.38	5.56	12.25	4.25	1.56	.81	4.13	.625	2.06
111(2)	140TC	7.75	8.50	6.63	6.88	15.63	5.25	2.00	.88	5.63	.875	2.38
121	140TC	7.75	8.50	6.63	6.88	15.63	5.25	2.00	.88	8.19	.875	3.31
221	180TC	9.88	9.75	7.75	8.75	19.56	6.25	3.13	1.56	10.25	1.125	3.00
231	180TC	9.88	9.75	7.75	8.75	19.56	6.25	3.13	1.56	10.63	1.125	3.44
331	210TC	12.38	11.88	9.56	10.88	24.00	7.75	4.19	1.75	11.75	1.375	3.94
341	210TC	12.38	11.88	9.56	10.88	24.00	7.75	4.19	1.75	13.38	1.375	3.44

* Shaft Tolerance: +.000/-0.0005" through 1.125" dia., +.000/-0.001" others

Size	CAH	CAJ	CAK	CAK	CBB	CBD	CBF	RX	Key	Z-Flow Only	
										I	CB
051	2.06	5.88	4.50	-	.13	6.50	.38-16	1.50	3/16 sq. X 1.38	3.31	3.38
111(2)	2.13	5.88	4.50	-	.19	6.50	.38-16	2.44	3/16 sq. X 1.56	3.56	5.06
121	2.13	5.88	4.50	-	.19	6.50	.38-16	2.75	3/16 sq. X 2.00	3.56	7.69
221	2.63	7.25	-	8.50	.25	9.00	.50-13	2.75	1/4 sq. X 1.75	6.00	8.38
231	2.63	7.25	-	8.50	.25	9.00	.50-13	3.44	1/4 sq. X 1.75	6.00	8.75
331	3.13	7.25	-	8.50	.25	9.00	.50-13	3.44	5/16 sq. X 2.38	7.63	9.13
341	3.13	7.25	-	8.50	.25	9.00	.50-13	4.25	5/16 sq. X 2.38	7.63	10.75

(1) Add 1" to CB Dimension for Sizes 111 and 121 on Assembly 166-A

(2) Size 111, gear ratio 1.17 and 1.44 cannot be vertical shaft mounted.

All dimensions are in inches.

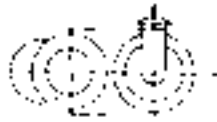
MOTO DRIVE - Parallel

Special Assemblies

Output Shaft Down Type - NEMA "C" Face

"C" FLOW

164-164E



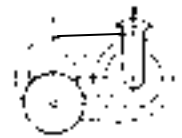
167-167E



165-165E



168-168E

"Z" FLOW

164-A



165-A



166-A



167-A

APG

MASTER XL

COMBOGEAR

MOTO DRIVE

ULTIMA

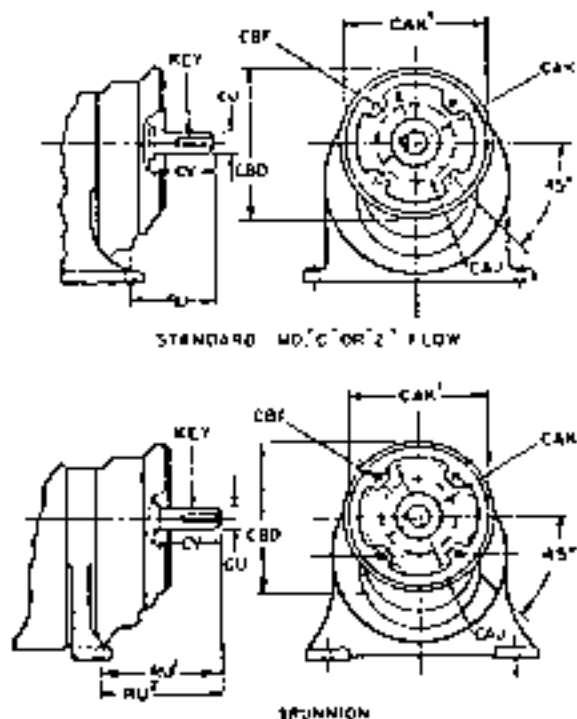
PULLEYS

DIMENSIONS

REEVES®

MOTO DRIVE - Parallel

Foot Mounting MOTO DRIVE Reducer With Single Reduction Reducer
NEMA "C" Face Output - Sizes 051 Thru 341



Size	Output Mtg.	RU	RU ¹ "Z"	RU ² "C"
051	56C	4.44	4.81	4.06
111	140TC	5.44	6.03	5.50
121	140TC	8.00	8.59	8.09
221	180TC	7.75	11.44	9.56
231	180TC	9.13	11.81	9.94
331	210TC	7.63	12.94	10.31
341	210TC	9.25	14.56	11.94

All dimensions are in inches.

MOTO DRIVE - Parallel

NEMA C-Face Single Reducer

C-FLOW

VERTICAL



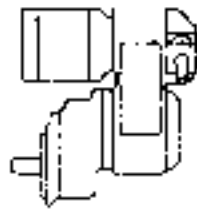
254



254



257



INVERTED VERTICAL



258



260



261

HORIZONTAL



262



263



265

HORIZONTAL



266



267



269

Z-FLOW

VERTICAL



254-A



255-A



256-A



257-A



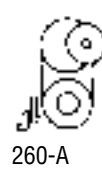
INVERTED VERTICAL



258-A



259-A



260-A



261-A

HORIZONTAL



262-A



263-A



264-A



265-A

HORIZONTAL



266-A



267-A



268-A

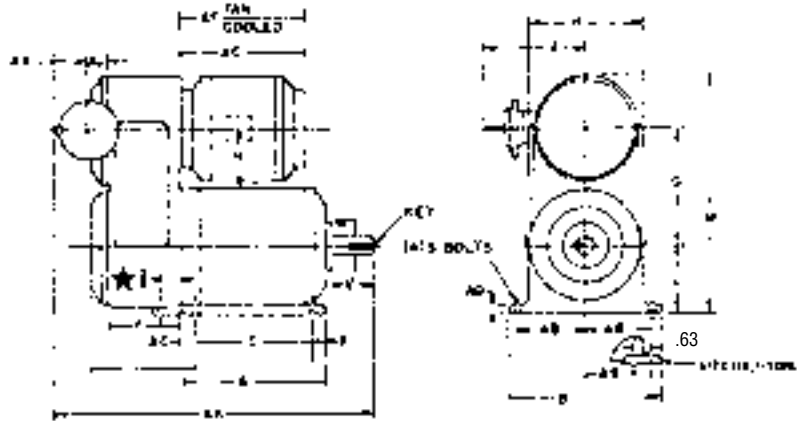


269-A

MOTO DRIVE - Parallel

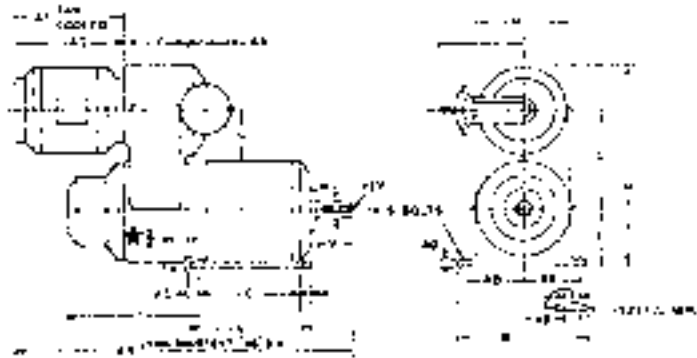
Vertical Double and Triple Reducer

“C” FLOW



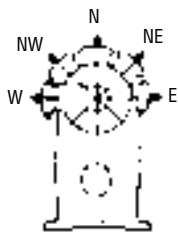
Assembly 105

“Z” FLOW



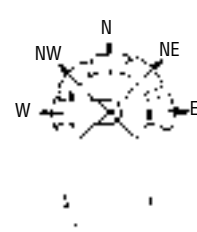
Assembly 105-A

“C” FLOW ASSEMBLY



105

“Z” FLOW ASSEMBLY



105-A

TABLE 1 - “Z” Flow Only

Size	G	M
133	10.50	21.06
233	11.50	22.69
243	11.50	24.19
353	13.75	29.88

All dimensions are in inches

NOTE: Position F, for front handwheel control, on “Z” flow size 243 and 353 requires belt case No. 2

MOTO DRIVE - Parallel

Vertical Double and Triple Reducer

“C” AND “Z” FLOW

Size	A	B	C	G	H	I	J	L	M	N
052, 053	7.13	7.63	6.13	6.50	6.44	5.94	5.56	3.75	13.13	3.75
112, 113	11.38	9.50	10.25	7.75	8.50	5.88	6.88	4.63	16.31	4.68
122, 123	12.31	13.00	10.06	10.5	8.50	10.63	6.88	5.75	20.19	5.56
133	14.00	15.25	12.38	10.5	8.50	9.25	6.88	6.63	21.06	4.00
222, 223	12.31	13.00	10.06	9.88	9.75	8.06	8.75	5.75	20.19	4.94
232, 233	14.00	15.25	12.38	11.50	9.75	8.56	8.75	6.63	22.69	5.00
243	19.13	18.63	16.13	13.00	9.75	8.69	8.75	8.13	25.69	5.00
332, 333	14.00	15.25	12.38	12.38	11.88	12.00	10.88	6.63	24.50	5.88
342, 343	19.13	18.63	16.13	13.86	11.88	10.25	10.88	8.13	27.38	5.75
353, 353H	21.31	23.00	18.50	16.25	11.88	11.56	10.88	10.63	32.38	5.75
442, 443	19.13	18.63	16.13	15.50	14.25	13.31	13.63	8.13	30.06	7.25
452, 453, 453H	21.31	23.00	18.50	17.75	14.25	12.75	13.63	10.63	38.44	7.25
552, 552H	21.31	23.00	18.50	19.63	17.25	16.69	14.88	10.63	38.44	9.13
553, 553H										
652, 652H	21.31	23.00	18.50	20.75	18.50	22.19	14.88	10.63	40.13	10.25
652K										

Size	S	V	W*	Y	AA	AB	AC	AI	AJ	AK
052, 053	.38	1.88	.875	4.25	1.56	3.31	.56	2.81	.81	18.00
112, 113	.50	2.38	1.125	5.25	2.00	3.75	*	1.44	.88	21.44
122, 123	.50	3.63	1.750	5.25	2.00	5.69	4.06	1.69	.88	27.56
133	.63	4.38	2.125	5.25	2.00	6.81	2.44	1.44	.88	28.75
222, 223	.50	3.63	1.750	6.25	3.13	5.69	1.31	1.69	1.56	28.63
232, 233	.63	4.38	2.125	6.25	3.13	6.81	.81	1.44	1.56	29.94
243	.75	5.13	2.500	6.25	3.13	8.25	.94	2.44	1.56	35.56
332, 333	.63	4.38	2.125	7.75	4.19	6.81	2.44	1.44	1.75	34.31
342, 343	.75	5.13	2.500	7.75	4.19	8.25	.69	2.44	1.75	38.06
353, 353H	.88	6.13	3.000	7.75	4.19	10.25	2.00	2.19	1.75	42.50
442, 443	.75	5.13	2.500	9.25	5.00	8.25	1.81	2.44	2.44	42.19
452, 453, 453H	.88	6.13	3.000	9.25	5.00	10.25	1.25	2.19	2.44	44.75
552, 552H	.88	6.13	3.000	11.00	6.00	10.25	2.75	2.19	3.44	50.00
553, 553H										
652, 652H	.88	6.13	3.000	11.50	7.00	10.25	7.63(2)	2.19	4.75	57.69
652K										

* Shaft Tolerance: +.000/- .0005" through 1.125" dia., +.000/- .001" others.

Size	AQ	Key	Z-Flow Only				
			G	I	M	AK	N
052, 053	.56	3/16 sq. X 1.38	6.50	8.13	13.13	25.69	3.75
112, 113	.50	1/4 sq. X 1.56	7.75	8.06	16.31	28.44	4.38
122, 123	.88	3/8 sq. X 2.69	7.75	10.81	19.44	34.56	2.81
133	1.25	1/2 sq. X 3.38	7.75	11.06	18.31	35.75	1.25
222, 223	.88	3/8 sq. X 2.69	9.88	13.56	20.19	35.19	4.94
232, 233	1.25	1/2 sq. X 3.38	9.88	13.06	21.06	37.50	3.38
243	1.25	5/8 sq. X 3.94	9.88	13.19	22.56	43.13	1.88
332, 333	1.25	1/2 sq. X 3.38	12.38	17.81	24.50	40.94	5.88
342, 343	1.25	5/8 sq. X 1.75	12.38	16.06	26.00	44.69	4.38
353, 353H	1.50	3/4 sq. X 4.94	12.38	17.38	28.50	49.13	1.88
442, 443	1.25	5/16 sq. X 2.38	15.25	20.50	30.06	49.31	7.25
452, 453, 453H	1.25	3/4 sq. X 4.94	15.25	19.94	32.56	51.88	4.75
552, 552H	1.50	3/4 sq X 4.94	19.63	25.13	38.44	59.25	9.13
553, 553H							
652, 652H	1.50	3/4 sq X 4.94	20.75	27.13	40.13	60.63	10.25
652K							

NOTE: 052 and 053 available in handwheel locations W, N, E only. When using control position (F) on sizes

(2) AC dim. for Z-flow is 1.94.

All dimensions are in inches.

APG

MASTER XL

COMBOGEAR

MOTO DRIVE

ULTIMA

PULLEYS



Assembly 121



Assembly 121-A

“Z” FLOW ASSEMBLIES



All dimensions are in inches



MOTO DRIVE - Parallel

Horizontal Double and Triple Reducer

“C” AND “Z” FLOW

Size	A	B	C	G	H	I	J	L	M	N
052, 053	7.13	7.63	6.13	6.50	6.44	5.94	5.56	3.75	6.88	3.75
112, 113	11.38	9.50	10.25	7.75	8.50	5.88	6.88	4.63	9.38	4.68
122, 123	12.31	13.00	10.06	10.50	8.50	10.63	6.88	5.75	10.00	5.56
133	14.00	15.25	12.38	10.50	8.50	9.25	6.88	6.63	11.13	4.00
222, 223	12.31	13.00	10.06	9.88	9.75	8.06	8.75	5.75	11.19	4.94
232, 233	14.00	15.25	12.38	11.50	9.75	8.56	8.75	6.63	12.31	5.00
243	19.13	18.63	16.13	13.00	9.75	8.69	8.75	8.13	13.56	5.00
332, 333	14.00	15.25	12.38	12.38	11.88	12.00	10.88	6.63	13.06	5.88
342, 343	19.13	18.63	16.13	13.86	11.88	10.25	10.88	8.13	14.56	5.75
353, 353H	21.31	23.00	18.50	16.25	11.88	11.56	10.88	10.63	17.06	5.75
442, 443	19.13	18.63	16.13	15.50	14.25	13.31	13.63	8.13	16.06	7.25
452, 453, 453H	21.31	23.00	18.50	17.75	14.25	12.75	13.63	10.63	18.56	7.25
552, 552H	21.31	23.00	18.50	19.63	17.25	16.69	14.88	10.63	20.50	9.13
553, 553H										
652, 652H	21.31	23.00	18.50	20.75	18.50	22.19	14.88	10.63	20.94	10.25
652K										

Size	P	S	V	W*	Y	AA	AB	AC	AI	AJ
052, 053	13.19	.38	1.88	.875	4.25	1.56	3.31	.56	2.81	.81
112, 113	16.50	.50	2.38	1.125	5.25	2.00	3.75	-	-	.88
122, 123	20.94	.50	3.63	1.750	5.25	2.00	5.69	4.06	1.69	.88
133	22.06	.63	4.38	2.125	5.25	2.00	6.81	2.44	1.44	.88
222, 223	20.94	.50	3.63	1.750	6.25	3.13	5.69	1.31	1.69	1.56
232, 233	23.69	.63	4.38	2.125	6.25	3.13	6.81	.81	1.44	1.56
243	26.88	.75	5.13	2.500	6.25	3.13	8.25	.94	2.44	1.56
332, 333	25.50	.63	4.38	2.125	7.75	4.19	6.81	2.44	1.44	1.75
342, 343	28.56	.75	5.13	2.500	7.75	4.19	8.25	.69	2.44	1.75
353, 353H	33.25	.88	6.13	3.000	7.75	4.19	10.25	2.00	2.19	1.75
442, 443	31.25	.75	5.13	2.500	9.25	5.00	8.25	1.81	2.44	2.44
452, 453, 453H	35.94	.88	6.13	3.000	9.25	5.00	10.25	1.25	2.19	2.44
552, 552H	39.31	.88	6.13	3.000	11.00	6.00	10.25	2.75	2.19	3.44
553, 553H										
652, 652H	41.00	.88	6.13	3.000	11.50	7.00	10.25	7.63(1)	2.19	4.75
652K										

* Shaft Tolerance: +.000/- .0005" through 1.125" dia., +.000/- .001" others.

Size	AK	AQ	RG	Key	Z-Flow Only					
					G	I	M	AK	N	P
052, 053	18.00	.56	2.75	3/16 sq. X 1.38	6.50	8.13	13.13	25.69	3.75	13.19
112, 113	21.44	.50	3.38	1/4 sq. X 1.56	7.75	8.06	16.31	28.44	4.38	16.50
122, 123	27.56	.88	4.88	3/8 sq. X 2.69	7.75	10.81	19.44	34.56	2.81	20.94
133	28.75	1.25	6.50	1/2 sq. X 3.38	7.75	11.06	18.31	35.75	1.25	22.06
222, 223	28.63	.88	4.88	3/8 sq. X 2.69	9.88	13.56	20.19	35.19	4.94	20.94
232, 233	29.94	1.25	6.50	1/2 sq. X 3.38	9.88	13.06	21.06	37.50	3.38	23.69
243	35.56	1.25	8.00	5/8 sq. X 3.94	9.88	13.19	22.56	43.13	1.88	26.88
332, 333	34.31	1.25	6.50	1/2 sq. X 3.38	12.38	17.81	24.50	10.94	5.88	25.50
342, 343	38.06	1.25	8.00	5/8 sq. X 1.75	12.38	16.06	26.00	44.69	4.38	28.56
353, 353H	42.50	1.50	10.50	3/4 sq. X 4.94	12.38	17.38	28.50	49.13	1.88	33.25
442, 443	42.19	1.25	8.00	5/16 sq. X 2.38	15.25	20.50	30.06	49.31	7.25	31.25
452, 453, 453H	44.75	1.25	10.50	3/4 sq. X 4.94	15.25	19.94	32.56	51.88	4.75	35.94
552, 552H	50.00	1.50	10.50	3/4 sq. X 4.94	19.63	25.13	38.44	59.25	9.13	39.31
553, 553H										
652, 652H	57.69	1.50	10.50	3/4 sq. X 4.94	20.75	27.13	40.13	60.63	10.25	41.00
652K										

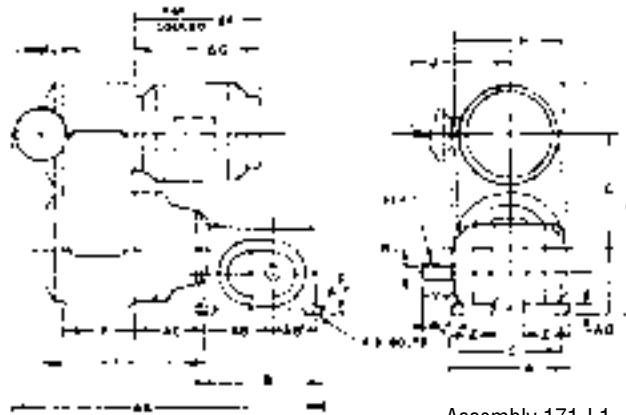
(1) AC dim. for Z-flow is 1.94.

NOTE: Position F for handwheel control, on “Z” flow sizes 133, 233, 243, 342, 343, 452 and 453 requires beltcase No. 2; size 353 requires beltcase No. 3.

All dimensions are in inches.

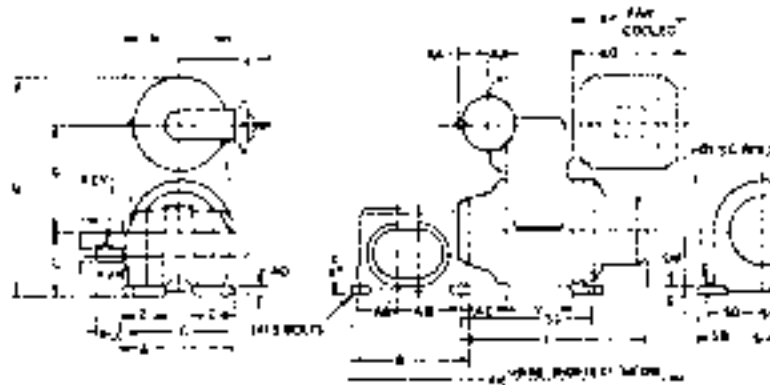
Vertical Right Angle Reducer

“C” FLOW



Assembly 171-L1

“Z” FLOW



Assembly 171-A-L1

Size	SB	SC	SD	SG	SM
200	13	(2)	9.5	.50	(2)
300	15.25	(3)	11.25	.63	(3)

(2) 2W21: SC = 15.63, SM = 1.13

2W28: SC = 16.38, SM = 2.63

(3) 3W28: SC = 20.19, SM = 2.13

All dimensions are in inches

“C” FLOW ASSEMBLY



170-K1



171-L1

“Z” FLOW ASSEMBLY



170-A-K1



171-A-L1

MOTO DRIVE - Right Angle

Vertical Right Angle Reducer

"C" AND "Z" FLOW

Size	A	B	C	G	H	I	J	L	M	S
05W12	5.00	5.25	4.00	6.50	6.44	10.13	5.56	3.75	13.13	.31
05C12	6.00	8.00	5.00	6.50	6.44	10.13	5.56	4.00	13.38	.31
05W16	5.50	6.88	4.50	6.50	6.44	9.94	5.56	4.50	13.88	.38
1W16	5.50	6.88	4.50	7.75	8.50	12.56	6.88	4.50	16.19	.38
1C16	7.75	10.00	6.50	7.75	8.50	12.69	6.88	5.00	16.69	.38
1W21	8.00	8.00	7.00	7.75	8.50	12.81	6.88	6.00	17.69	.38
1C21	9.25	12.25	8.00	7.75	8.50	12.81	6.88	6.63	18.31	.38
1C28	11.13	16.13	9.00	7.75	8.50	13.44	6.88	8.63	20.31	.38
2W21	8.00	8.00	7.00	9.88	9.75	15.44	8.75	6.00	20.31	.38
2C21	9.25	12.25	8.00	9.88	9.75	15.44	8.75	6.63	21.06	.50
2W28	9.50	9.75	8.00	9.88	9.75	16.19	8.75	7.50	21.94	.63
2C28	11.13	16.13	9.00	9.88	9.75	15.88	8.75	8.63	23.06	.38
2C40	15.00	20.88	12.50	9.88	9.25	19.06	8.75	11.50	25.94	1.00
3C21	9.25	12.25	8.00	12.38	11.88	19.06	10.88	6.63	24.50	.50
3W28	9.50	9.75	8.00	12.38	11.88	18.00	10.88	7.50	25.38	.50
3C28	11.13	16.13	9.00	12.38	11.88	19.50	10.88	8.63	26.50	.63
3W40	12.75	13.75	11.00	12.38	11.88	22.25	10.88	10.75	28.63	.88
3C40	15.00	20.88	12.50	12.38	11.88	22.25	10.88	11.50	29.38	1.00
4W40	12.75	13.75	11.00	15.25	14.25	26.19	13.63	10.75	32.69	.88
4C40	15.00	20.88	12.50	15.25	14.25	26.19	13.63	11.50	33.44	1.00

Size	V	W*	Y	Z	AA	AB	AB¹	AC	AJ
05W12	1.69	.750	4.25	1.44	1.56	2.13	2.13	4.63	.81
05C12	2.00	.875	4.25	2.13	1.56	4.00	3.00	4.75	.81
05W16	2.00	.875	4.25	1.75	1.56	3.00	3.00	4.56	.81
1W16	2.00	.875	5.25	1.75	2.00	3.00	3.00	51.94	.88
1C16	2.50	1.125	5.25	3.13	2.00	5.50	3.50	6.06	.88
1W21	2.50	1.125	5.25	2.63	2.00	3.50	3.50	6.19	.88
1C21	3.25	1.500	5.25	3.50	2.00	7.00	4.00	6.19	.88
1C28	4.56	2.125	5.25	4.00	2.00	9.06	4.94	6.91	.88
2W21	2.50	1.125	6.25	2.63	3.13	3.50	3.50	7.69	1.56
2C21	3.25	1.500	6.25	3.50	3.13	7.00	4.00	7.69	1.56
2W28	3.25	1.500	6.25	3.00	3.13	4.00	4.00	8.44	1.56
2C28	4.56	2.125	6.25	4.00	3.13	9.06	4.94	8.13	1.56
2C40	5.50	2.625	6.25	4.00	3.13	11.88	6.63	11.31	1.56
3C21	3.25	1.500	7.75	3.50	4.19	7.50	4.00	9.50	1.75
3W28	3.25	1.500	7.75	3.00	4.19	4.00	4.00	10.25	1.75
3C28	4.56	2.125	7.75	4.00	4.19	9.06	4.94	9.94	1.75
3W40	4.50	2.125	7.75	3.38	4.19	6.00	6.00	12.69	1.75
3C40	5.50	2.625	7.75	4.00	4.19	11.88	6.63	12.69	1.75
4W40	4.50	2.125	9.25	3.38	5.00	6.00	6.00	14.69	2.44
4C40	5.50	2.625	9.25	4.00	5.00	11.88	6.63	14.69	2.44

* Shaft Tolerance: +.000/-0.0005" through 1.125" dia., +.000/-0.001" others

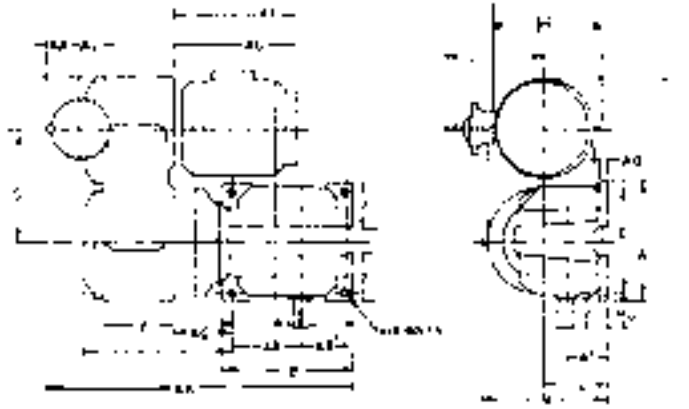
Size	AK	AQ	AT	RU	Key	Z-Flow Only		
						I	AC	AK
05W12	16.00	.56	2.25	2.00	3/16 sq. X 1.00	12.19	4.63	23.69
05C12	18.88	.50	2.50	2.63	3/16 sq. X 1.25	12.31	4.75	26.56
05W16	17.56	.63	2.50	2.31	3/16 sq. X 1.25	12.06	4.56	25.31
1W16	20.50	.63	2.50	2.31	3/16 sq. X 1.25	14.75	5.94	27.50
1C16	26.69	.63	3.00	2.88	1/4 sq. X 1.75	14.88	6.06	30.69
1W21	21.81	.63	3.38	2.50	1/4 sq. X 1.75	15.00	6.19	28.81
1C21	25.94	.75	4.00	4.00	3/8 sq. X 2.50	15.00	6.19	32.94
1C28	30.00	1.00	5.13	6.06	1/2 sq. X 3.00	15.63	6.81	37.00
2W21	26.13	.63	3.38	2.50	1/4 sq. X 1.75	21.81	7.69	33.69
2C21	30.25	.75	4.00	4.00	3/8 sq. X 2.50	21.50	7.69	37.81
2W28	28.25	.88	4.00	3.88	3/8 sq. X 2.50	23.81	8.44	35.81
2C28	34.13	1.00	5.13	6.06	1/2 sq. X 3.00	24.69	8.13	41.69
2C40	41.94	1.25	6.50	7.06	5/8 sq. X 4.00	18.31	6.81	45.00
3C21	31.81	.75	4.00	4.00	3/8 sq. X 2.50	26.75	9.50	41.44
3W28	32.81	.88	4.00	3.88	3/8 sq. X 2.50	29.13	10.25	39.44
3C28	38.63	1.00	5.13	6.06	1/2 sq. X 3.00	28.81	9.94	45.31
3W40	39.25	1.00	5.75	5.13	1/2 sq. X 3.75	20.94	7.06	40.25
3C40	46.25	1.25	6.50	7.06	5/8 sq. X 4.00	20.94	7.06	47.06
4W40	44.25	1.00	5.75	5.13	1/2 sq. X 3.75	24.31	7.50	44.19
4C40	51.25	1.25	6.50	7.06	5/8 sq. X 4.00	24.31	7.50	51.00

NOTE: 05W12, 05C12, 05W16 available in handwheel locations W, N, E only.

MOTO DRIVE - Right Angle

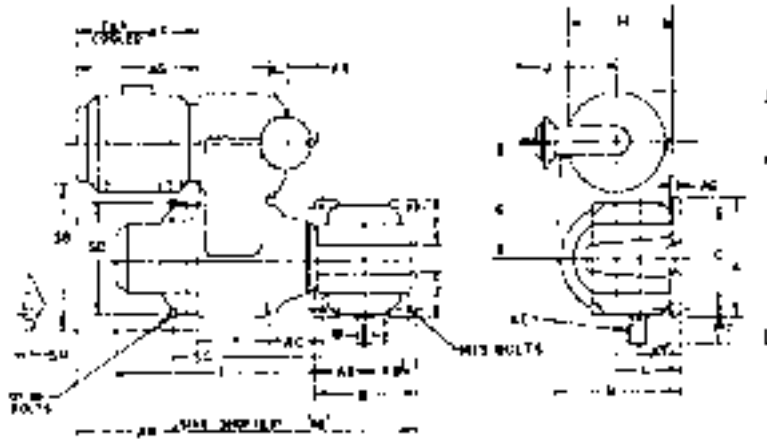
Horizontal Right Angle Reducer

"C" FLOW



Assembly 173-L1

"Z" FLOW



Assembly 175-A-L1

Size	SB	SC	SD	SG	SM
200	13	(3)	9.5	.50	(3)
300	15.25	(4)	11.25	.63	(4)

All dimensions are in inches

- (3) 2W21: SC = 15.63, SM = 1.13
 2W28: SC = 16.38, SM = 2.63
 (4) 3W28: SC = 20.19, SM = 2.13

"C" FLOW ASSEMBLY



173-L1



174-K1

"Z" FLOW ASSEMBLY



172-A-K1



173-A-L1



174-A-K1



175-A-L1

MOTO DRIVE - Right Angle

Horizontal Right Angle Reducer

"C" AND "Z" FLOW

Size	A	B	C	G	H	I	J	L	M	P
05W12	5.00	5.25	4.00	6.50	6.44	10.13	5.56	3.75	7.00	13.13
05C12	6.00	8.00	5.00	6.50	6.44	10.13	5.56	4.00	7.25	13.38
05W16	5.50	6.88	4.50	6.50	6.44	9.94	5.56	4.50	7.75	13.88
1W16	5.50	6.88	4.50	7.75	8.50	12.56	6.88	4.50	9.00	16.19
1C16	7.75	10.00	6.50	7.75	8.50	12.69	6.88	5.00	9.50	17.81
1W21	8.00	8.00	7.00	7.75	8.50	12.81	6.88	6.00	10.50	17.69
1C21	9.25	12.25	8.00	10.50	8.50	12.81	6.88	6.63	11.13	18.31
1C28	11.13	16.13	9.00	10.50	8.50	13.44	6.88	8.63	13.13	20.31
2W21	8.00	8.00	7.00	9.88	9.75	15.44	8.75	6.00	11.50	20.31
2C21	9.25	12.25	8.00	9.88	9.75	15.44	8.75	6.63	12.13	21.06
2W28	9.50	9.75	8.00	9.88	9.75	16.19	8.75	7.50	13.00	21.94
2C28	11.13	16.13	9.00	11.50	9.75	15.88	8.75	8.63	14.13	23.06
2C40	15.00	20.88	12.50	13.00	9.25	19.06	8.75	11.50	17.00	25.94
3C21	9.25	12.25	8.00	12.38	11.88	19.06	10.88	6.63	13.13	24.50
3W28	9.50	9.75	8.00	12.38	11.88	18.00	10.88	7.50	14.00	25.38
3C28	11.13	16.13	9.00	12.38	11.88	19.50	10.88	8.63	15.13	26.50
3W40	12.75	13.75	11.00	12.38	11.88	22.25	10.88	10.75	17.25	28.63
3C40	15.00	20.88	12.50	12.38	11.88	22.25	10.88	11.50	18.00	29.38
4W40	12.75	13.75	11.00	15.25	14.25	26.19	13.63	10.75	18.69	32.69
4C40	15.00	20.88	12.50	15.25	14.25	26.19	13.63	11.50	19.44	33.44

Size	S	V	W*	Y	Z	AA	AB	AB'	AC	AJ
05W12	.31	1.69	.750	4.25	1.44	1.56	2.13	2.13	4.63	.81
05C12	.31	2.00	.875	4.25	2.13	1.56	4.00	3.00	4.75	.81
05W16	.38	2.00	.875	4.25	1.75	1.56	3.00	3.00	4.56	.81
1W16	.38	2.00	.875	5.25	1.75	2.00	3.00	3.00	5.94	.88
1C16	.38	2.50	1.125	5.25	3.13	2.00	5.50	3.50	6.06	.88
1W21	.38	2.50	1.125	5.25	2.63	2.00	3.50	3.50	6.19	.88
1C21	.38	3.25	1.500	5.25	3.50	2.00	7.00	4.00	6.19	.88
1C28	.38	4.56	2.125	5.25	4.00	2.00	9.06	4.94	6.91	.88
2W21	.38	2.50	1.125	6.25	2.63	3.13	3.50	3.50	7.69	1.56
2C21	.50	3.25	1.500	6.25	3.50	3.13	7.00	4.00	7.69	1.56
2W28	.63	3.25	1.500	6.25	3.00	3.13	4.00	4.00	8.44	1.56
2C28	.38	4.56	2.125	6.25	4.00	3.13	9.06	4.94	8.13	1.56
2C40	1.00	5.50	2.625	6.25	4.00	3.13	11.88	6.63	11.31	1.56
3C21	.50	3.25	1.500	7.75	3.50	4.19	7.00	4.00	9.50	1.75
3W28	.50	3.25	1.500	7.75	3.00	4.19	4.00	4.00	10.25	1.75
3C28	.63	4.56	2.125	7.75	4.00	4.19	9.06	4.94	9.94	1.75
3W40	.88	4.50	2.125	7.75	3.38	4.19	6.00	6.00	12.69	1.75
3C40	1.00	5.50	2.625	7.75	4.00	4.19	11.88	6.63	12.69	1.75
4W40	.88	4.50	2.125	9.25	3.38	5.00	6.00	6.00	14.69	2.44
4C40	1.00	5.50	2.625	9.25	4.00	5.00	11.88	6.63	14.69	2.44

* Shaft Tolerance: +.000/- .0005" through 1.125" dia., +.000/- .001" others

Z-Flow Only

Size	AK	AQ	AT	RU	Key	I	AC	AK	P
05W12	16.00	.56	2.25	2.00	3/16 sq. X 1.00	12.19	4.63	23.69	13.38
05C12	18.88	.50	2.50	2.63	3/16 sq. X 1.25	12.31	4.75	26.56	14.50
05W16	17.56	.63	2.50	2.31	3/16 sq. X 1.25	12.06	4.56	25.31	13.94
1W16	20.50	.63	2.50	2.31	3/16 sq. X 1.25	14.75	5.94	27.50	16.25
1C16	23.69	.63	3.00	2.88	1/4 sq. X 1.75	14.88	6.06	30.69	17.81
1W21	21.81	.63	3.38	2.50	1/4 sq. X 1.75	15.00	6.19	28.81	17.69
1C21	25.94	.75	4.00	4.00	3/8 sq. X 2.50	15.00	6.19	32.94	19.69
1C28	30.00	1.00	5.13	6.06	1/2 sq. X 3.00	15.63	6.81	37.00	22.25
2W21	26.13	.63	3.38	2.50	1/4 sq. X 1.75	21.81	7.69	33.69	20.44
2C21	30.25	.75	4.00	4.00	3/8 sq. X 2.50	21.50	7.69	37.81	22.44
2W28	28.25	.88	4.00	3.88	3/8 sq. X 2.50	23.81	8.44	35.81	22.25
2C28	34.13	1.00	5.13	6.06	1/2 sq. X 3.00	24.69	8.13	41.69	25.00
2C40	41.94	1.25	6.50	7.06	5/8 sq. X 4.00	18.31	6.81	45.00	27.75
3C21	31.81	.75	4.00	4.00	3/8 sq. X 2.50	26.75	9.50	41.44	25.88
3W28	32.81	.88	4.00	3.88	3/8 sq. X 2.50	29.13	10.25	39.44	25.75
3C28	38.63	1.00	5.13	6.06	1/2 sq. X 3.00	28.81	9.94	45.31	28.44
3W40	39.25	1.00	5.75	5.13	1/2 sq. X 3.75	20.94	7.06	40.25	24.25
3C40	46.25	1.25	6.50	7.06	5/8 sq. X 4.00	20.94	7.06	47.06	25.38
4W40	44.25	1.00	5.75	5.13	1/2 sq. X 3.75	24.31	7.50	44.19	28.31
4C40	51.25	1.25	6.50	7.06	5/8 sq. X 4.00	24.31	7.50	51.00	29.44

All dimensions are in inches.

(1) "C" Flow Only - 1C21 and 1C28 - "G" = 10.50

(2) "C" Flow Only - 2C28 - "G" = 11.50

MOTO DRIVE MODIFICATIONS

ULTIMA RETROFIT KITS

Retrofit kits are now available to convert a REEVES MOTO DRIVE unit to the ULTIMA design. These kits are ideal to modify an existing MOTO DRIVE unit to provide the ease and simplicity of performing routine maintenance the ULTIMA drive permits.

The kit replaces a MOTO DRIVE beltcase with an ULTIMA backplate, cover and control assembly. The kit also includes a new belt, bushings, thrust bearing and variable shaft bearing. All other components from the existing MOTO DRIVE unit can continue to be used.

These retrofit kits are only available for and usable on a standard C-flow MOTO DRIVE unit. They are not adaptable to Z-flow, Trunnion foot, Inverted Vertical assemblies, and units with brakes or tachometers.

Refer to the chart below for selection. When ordering, be sure to include nameplate data from the existing MOTO DRIVE unit so a Specification Change (MFC) can be issued.

A new stamped nameplate will be included in the kit and will ensure that correct replacement parts are provided in the future.

FOR SIZE	PART NUMBER
ALL 100 MD SERIES	41511244DG
200, 221, 222, 223, 231, 232, 233 MD	41511244DS
200 W/XL 21, 28, 40	41511244DS
300, 331, 332, 333, 341, 342, 343 MD	41511244DV
300 W/XL 21, 28, 40	41511244DV

BRAKES

Brakes are standard C-face construction, and are mounted directly to the variable shaft. On stopping, the load inertia is overcome by the brake directly through the variable shaft. The MOTO DRIVE belt absorbs the motor inertia only.

Available Enclosures: Standard
Dust-Tight, Water Tight
Washdown
Explosion-Proof CI I Gr C&D
CI II Gr E, F, & G

Available Voltages:
115/230 VAC 60 Hz Stock
230/460 VAC 60 Hz Stock
287/575 VAC 60 Hz Stock
104/208 VAC 60 Hz
190/380 VAC 50 Hz
250/500 VAC 50 Hz

Drive Size	TORQUE (lbs-Ft)										
	1.5	3	6	10	15	25	50	75	125	175	230
050	X	X									
100		X	X	X							
200				X	X	X					
300				X	X	X					
400						X	X	X	X		
500							X	X	X		
600								X	X	X	X

NOTE: Not all Enclosures Available in all ratings.

MOTO DRIVE MODIFICATIONS

CHROMALIFE® DISCS

Chromalife is a hard chromium plating applied to the disc faces of the MOTO DRIVE unit. It is recommended for use in applications that require long term storage, extra guard for corrosive ambient areas, and applications requiring operating at one set speed for long periods of time.

ELECTRIC REMOTE CONTROL

The control gearmotor is totally enclosed, single phase, 115 volt, 50/60 Hz (specify on order), intermittent duty, permanent split capacitor, 3-lead, and instantly reversible. The control includes one momentary contact type, two element pushbutton station in a surface mount NEMA 1 enclosure. The pushbutton station is marked FAST and SLOW.

Sizes 050 thru 300 ERC include a built in brake, automatic reset thermal protection, and adjustable electric limit switches.

Sizes 400 thru 600K ERC include built in overload protection, adjustable mechanical stops, and a safety clutch to prevent over shifting damage.

EXPLOSION-PROOF ELECTRIC REMOTE CONTROL

Available for sizes 200 thru 600K only. The ERC is suitable for UL Class I Group D, and Class II Group F & G. The gearmotor is single phase, 60 Hz, type CS, 3-leads, not instantly reversible, 15 minute duty, built in thermal protection, explosion-proof control motor mounted on the MOTO DRIVE case. The ERC is supplied with one explosion proof pushbutton station.

PUSHBUTTON STATIONS

For use with ERC controls. Each control is supplied with one pushbutton station, of the appropriate type. Extra stations can be wired in parallel to give multiple shifting locations.

Available in: NEMA 1 Standard pushbutton
NEMA 7 & 9 Explosion-Proof UL Class I
Group C & D Class II Group E, F & G

For enclosures not listed refer to Electrical Supplier.

WASHDOWN PACKAGE

(Available for sizes 050-200 only)

This option includes a Easy Clean Motor, Chromalife Discs, a corrosion resistant (XT) gearcase, and USDA approved white paint. This package is ideal for food, chemical and wastewater industry applications.

FLANGE OUTPUT MOUNTING

Parallel Output

Standard NEMA C-face output flanges available in no reducer and single reduction sizes 050 thru 341.

Drive Size	NEMA Flange Size
050	56C
100	140TC
200	180TC
300	210TC

Flanges are available on units with feet, trunnion mounting, and footless versions. See Dimension/Assemblies - Parallel for more information about mounting position.

Right Angle Output

Consult MASTER XL section of the Engineering Catalog for information on flanged outputs available on right angle reducers.

FRONT HANDWHEEL CONTROL

The Front Handwheel Control is available as an extra cost option to Standard Right Angle Control.

MOTO DRIVE MODIFICATIONS

MOTOR OPTIONS

A variety of C-face motors are available off the shelf for use on MOTO DRIVE units. Examples include corrosion resistant (XT), Easy Clean, high efficiency (XE), and explosion-proof. When explosion proof motors are used, the torque ratings shown on the selection charts must be derated by multiplying the output torque shown by .87. This is because explosion proof motors are not service factored. Standard MOTO DRIVE drivemotors are 1750 rpm, 3 phase, 230/460 volt, 60 Hz, TEFC, Class F insulated, Design B, C-face footless, and Reeves Service Factored.

SPECIAL VARIABLE SHAFT EXTENSIONS

Supplied as a standard NEMA C-face flange and extension on the bearing plate opposite the reducer. The flange size is the same as in the flanged output section of this catalog. Can be used for brake mounting.

TACHOMETERS

The Tachometer pick-up system is a standard magnetic reluctance pick-up. A 60 tooth gear is mounted on the variable shaft, which is related to the output shaft speed by the reducer ratio. The digital readout indicator is a battery powered LCD display and is fully programmable, so that the output can be user calibrated to match any output characteristic.

Also included is 10 feet of signal cable with the Amphenol connector for connection to the magnetic pick-up. The cable length may be increased by the user up to 500 feet. Additional indicators may be purchased.

TRUNNION MOUNTING

Trunnion mounting is a reduced foot print mounting system. The unit mounts on two sets of feet on opposite sides of the beltcase, instead of the one larger foot print of the normal mounting. This option is only available on no reducer and single reduction units. See the Dimensions/Assemblies pages for future information.

XT-EXTRA TOUGH PACKAGE

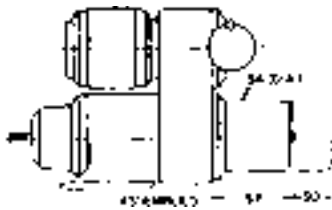
For sizes 300-600, this option includes an XT motor, Chromalife Discs, sealed bearings, ventilated inspection and bearings plates.

For sizes 050-200, the beltcase is totally enclosed and Chromalife Discs are normally not required. If XT features are requested, a XT motor can be added to the drive.

MOTO DRIVE - Options

MAGNETIC BRAKES, STANDARD, WATER-TIGHT AND DUST-TIGHT (SIZES 100 - 600K)

Control Side
"C" Flow



Motor Side
"Z" Flow



Control Side
"C" Flow - Trunnion



Motor Side
"Z" Flow - Trunnion



DIMENSION (STANDARD, WATER-TIGHT AND DUST-TIGHT ENCLOSURES)

Size	Torque Ft.-Lbs.	SA	SI	SO	SP	SQ	SR	SS	ST
100	3	6.88	-	3.25	6.38	14.38	7.38	7.88	7.88
	6								
	10								
	15								
200	10	9.38	9.38	4.63	10.19	18.06	11.69	16.19	14.94
	15								
	25								
300	10	9.38	7.13	4.63	10.19	19.69	12.06	17.69	16.06
	15								
	25								
	50	9.38	9.63	4.63	10.69	20.19	12.56	18.19	16.56
400	25	9.38	9.38	4.63	10.94	24.06	13.19	20.38	18.13
	50	9.38	9.88	4.63	11.44	24.56	13.69	20.88	18.63
	75								
	125	12.88	11.31	4.25	12.88	26.00	15.13	22.31	20.06
500	50	9.38	9.25	4.63	12.25	27.19	15.13	23.69	20.50
	75								
	125	12.88	10.31	4.25	13.69	28.63	16.56	25.06	21.94
600 and 600K	75	9.38	11.50	4.63	14.25	32.44	17.38	27.94	25.25
	125	12.88	9.94	4.25	13.94	30.88	15.81	26.31	25.69
	175	12.88	10.44	4.25	13.44	32.38	16.31	26.81	24.19
	230								

MOTO DRIVE - Options

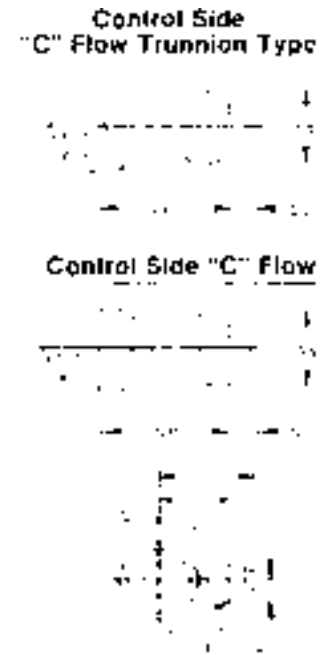
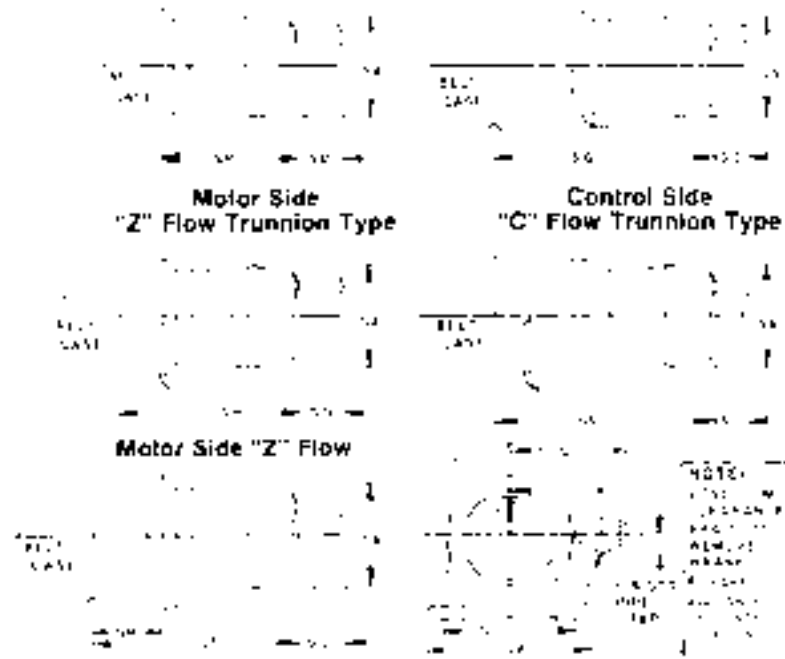
BRAKE LOCATION - Size 200 - 600 MOTO DRIVES

Control Side "C" Flow

Motor Side "Z" Flow

BRAKE LOCATION -

Size 100 MOTO DRIVES



EXPLOSION PROOF BRAKES CLASS I GROUP C & D

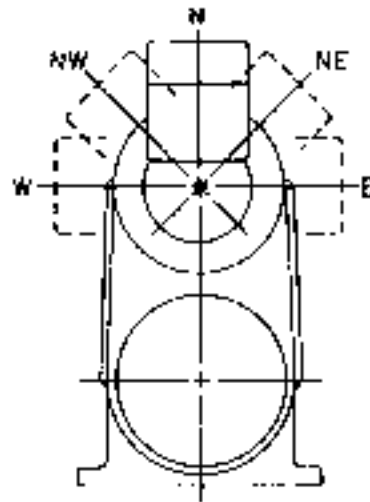
Units	100				200		300			400			500		600
Lb/Ft.	3	6	9	10	10	25	10	25	50	25	50	75	50	75	75
Brake	52A	54	56	56	72	72B	72	72B	74	72B	74	76	74	76	76
SA	7.13				9.25		9.25			9.25			9.25		9.25
SB	-				13.00		15.25			18.88			23.00		23.50
SD	-				11.38		13.88			16.75			20.50		17.75
SH	-				5.56		6.94			8.75			11.25		13.19
SO	3.63				4.50		4.50			4.50			4.50		4.50
SP	10.00	10.31	10.63		12.81		12.69		13.19	13.44	13.94	14.44	14.88	15.38	15.81
SR	11.00	11.31	11.63		14.19		14.56		15.06	15.69	16.19	16.69	17.75	18.25	18.44
SS	-				18.69		20.19		20.69	23.00	23.50	24.00	26.31	26.81	28.81
ST	-				17.44		18.69		19.19	20.75	21.25	21.75	23.19	23.69	25.03
SQ	-				20.50		22.19		22.69	26.69	27.19	27.69	29.81	30.31	33.50

CLASS II GROUPS E, F & G ONLY

Units	100				200		300			400			500		600
Lb/Ft.	3	6	9	10	10	25	10	25	50	25	50	75	50	75	75
Brake	52A	54	56	56	72	72B	72	72B	74	72B	74	76	74	76	76
SA	7.88				10.75		10.75			10.75			10.75		10.75
SB	-				13.00		15.25			18.88			23.00		23.50
SD	-				11.38		13.88			16.75			20.50		17.75
SH	-				5.56		6.94			8.75			11.25		13.19
SO	3.63				4.50		4.50			4.50			4.50		4.50
SP	10.00	10.31	10.63		11.44		11.44		11.81	12.19	12.69	13.19	13.63	14.13	14.31
SR	11.00	11.31	11.63		12.94		13.31		13.81	14.56	15.06	15.56	16.50	17.00	17.19
SS	-				17.44		18.94		19.44	21.75	22.25	22.75	25.06	25.56	27.78
ST	-				16.19		17.44		17.94	19.50	20.00	20.50	21.94	22.44	25.03
SQ	-				19.25		20.94		21.44	25.44	25.94	26.44	28.56	29.06	32.25

MOTO DRIVE - Control Position Options

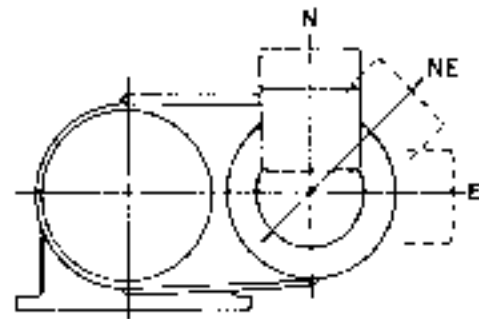
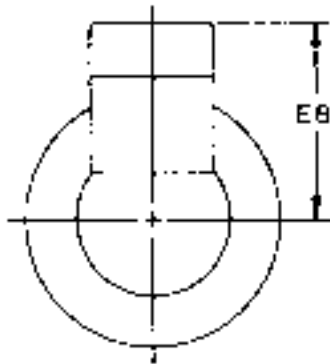
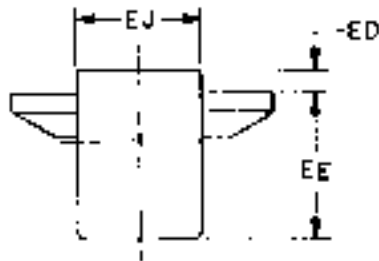
STANDARD POSITIONS AND DIMENSIONS OF HEAVY DUTY ERC 050 - 300



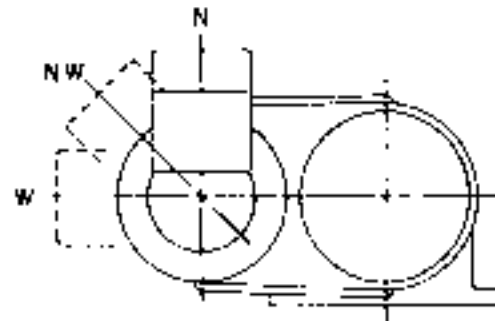
Unit will be furnished in standard position (N) unless otherwise specified.

NOTE - Size No. 050 available in positions "N", "E", "W", only

Vertical "C" and "Z" Flow



Horizontal "C" and "Z" Flow



Horizontal "C" and "Z" Flow

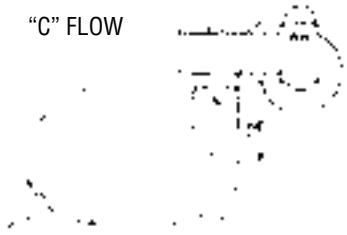
SIZE	EB	ED	EE	EJ
50	6.12	.75	5.44	4.00
100	7.75	.75	6.38	4.31
200	9.25	.62	6.62	4.62
300	10.31	.56	6.69	4.62

MOTO DRIVE - Control Position Options

STANDARD POSITIONS AND DIMENSIONS OF HEAVY DUTY ERC 400 - 600

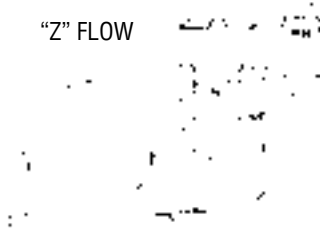
LH HORIZONTAL UNITS - POSITION **N-RH** STANDARD
OPTIONAL POSITIONS: NE-RH & E-LH

"C" FLOW



ASSEMBLIES:
112, 112-A, 117, 118, 119, 122, 124, 129,
130, 131

"Z" FLOW



ASSEMBLIES:
112-EA, 117-A, 118-A, 119-A, 120-A, 122-A,
124-A, 129-A, 130-A, 131-A, 132-A

VERTICAL "C" FLOW UNITS
N-LH STANDARD POSITION

OPTIONAL POSITIONS: NW - LH
E - LH
N - RH
NE - RH
W - RH



ASSEMBLIES:
100, 100-A, 101, 102,
103, 105, 106, 107,
108, 109

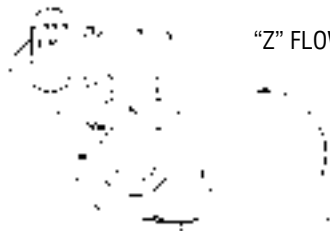
RH HORIZONTAL UNITS - POSITION **N-LH** STANDARD
OPTIONAL POSITIONS: NE-LH & W-RH

"C" FLOW



ASSEMBLIES:
111, 111-A, 113, 114, 115, 121, 123,
125, 126, 127

"Z" FLOW



ASSEMBLIES:
111-EA, 113-A, 114-A, 115-A, 116-A,
121-A, 123-A, 125-A, 126-A, 128-A

VERTICAL "Z" FLOW UNITS
N-LH STANDARD POSITION

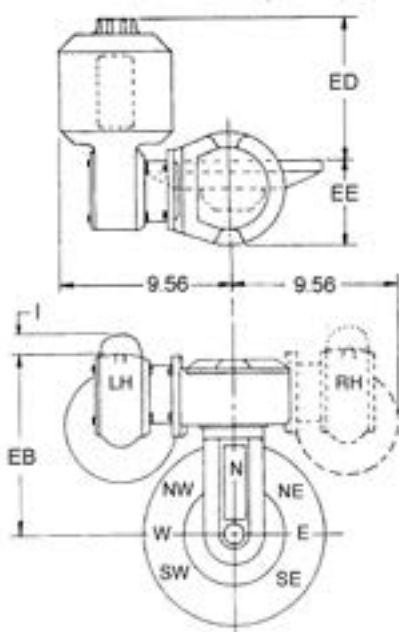
OPTIONAL POSITIONS: NW - LH
E - LH
N - RH
NE - T-
RH
W - RH



ASSEMBLIES:
100-EA, 101-A, 102-A, 103-A,
105-A, 106-A, 107-A, 108-A,
109-A, 110-A

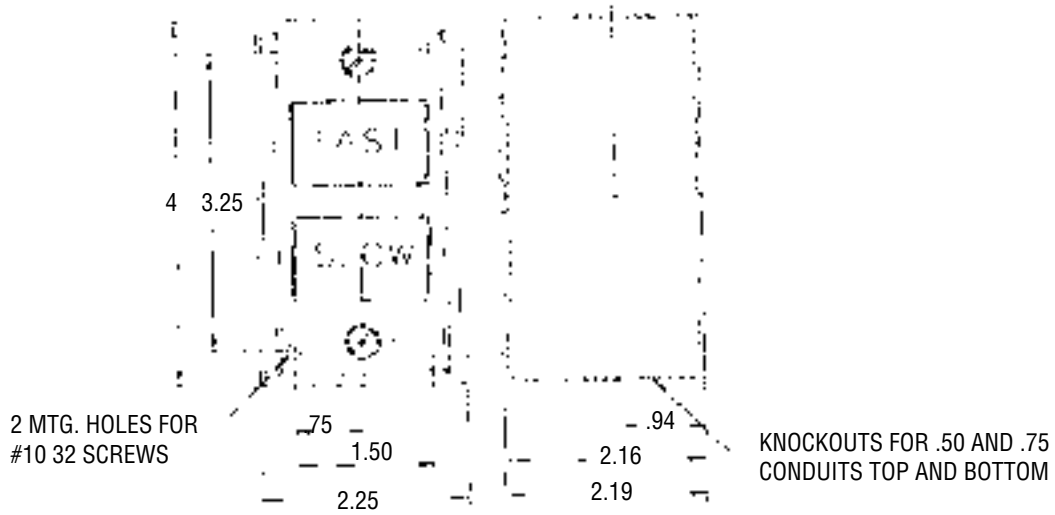
SIZE	EB	EE	ED
400	12.38	5.19	8.69
500	13.63	6.25	7.69
600	16.13	7.50	6.38

NOTE: E.R.C WILL BE FURNISHED IN
STANDARD POSITIONS SHOWN UNLESS
OTHERWISE SPECIFIED

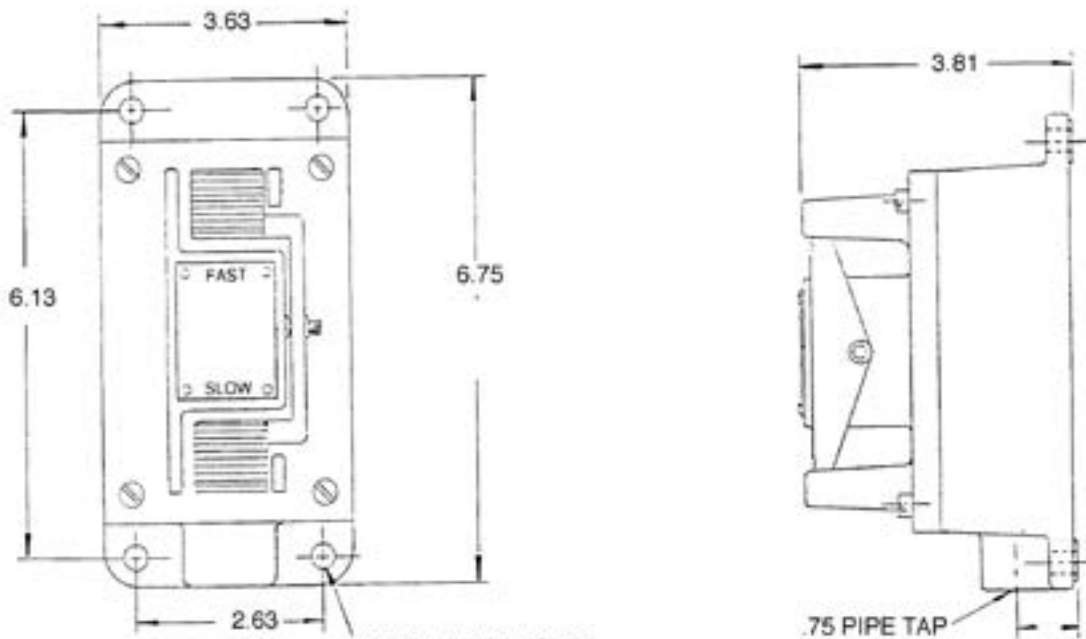


MOTO DRIVE - Options

STANDARD NEMA-1 E.R.C. PUSHBUTTON



NEMA - 7-9 E.R.C. EXPLOSION-PROOF PUSH BUTTON



DIMENSIONS

REEVES®

MOTO DRIVE - Options STANDARD HANDWHEEL CONTROL SIZE 050

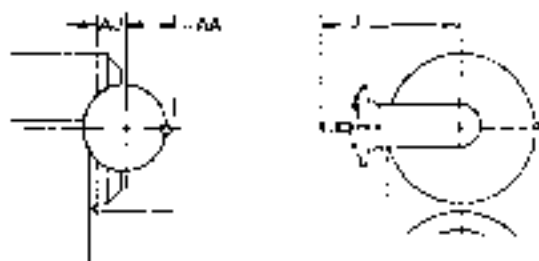
Size	J	AJ	CI	AE
050	5.56	.80	2.38	1.31

NOTE: SIZE NO. 050 AVAILABLE IN POSITIONS "N", "E", "W" ONLY



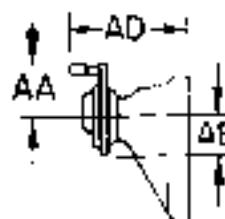
STANDARD HANDWHEEL CONTROL SIZE 100 - 600K

Size	J	AA	AJ
100	6.88	2.00	.88
200	8.75	3.13	1.56
300	10.88	4.19	1.75
400	13.63	5.00	2.44
500	14.88	6.00	3.44
600 & 600K	14.88	7.00	4.75

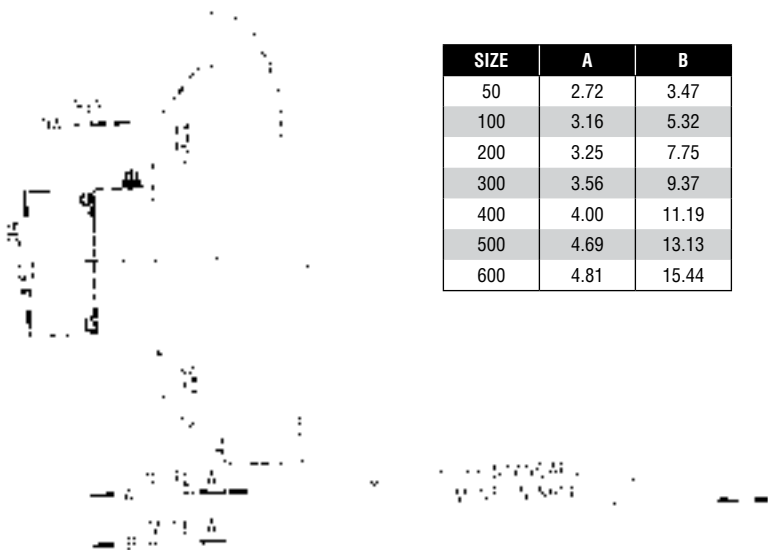
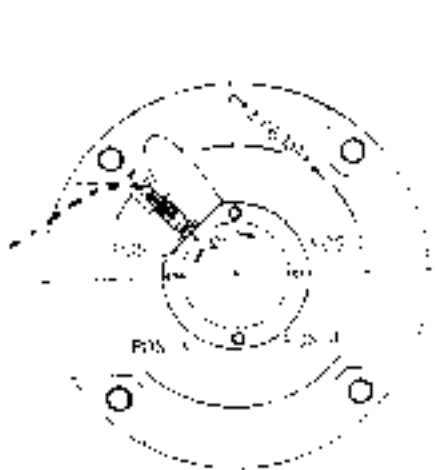


FRONT HANDWHEEL CONTROL SIZE 050 - 300

Size	AA	AD	AE
050	1.31	3.69	.81
100	2.00	5.38	1.19
200	3.13	6.75	1.44
300	4.19	8.50	1.94



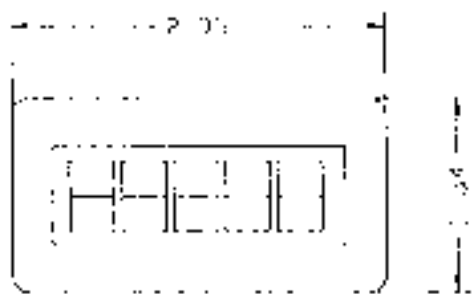
MOTO DRIVE - Options
DIGITAL TACHOMETER PICKUP
FOR NO. 050 - 600 MOTO DRIVE



SIZE	A	B
50	2.72	3.47
100	3.16	5.32
200	3.25	7.75
300	3.56	9.37
400	4.00	11.19
500	4.69	13.13
600	4.81	15.44

STANDARD PICKUP MATES WITH
AMPHENOL MS3106A-10SL-4S
CONNECTOR, EXPLOSION
PROOF PICKUP HAS .50
INTERNAL PIPE THREADS AND 18"
LONG LEADS

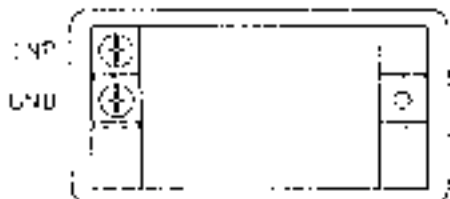
LCD DIGITAL TACHOMETER INDICATOR



Front



Side



Rear

MOTO DRIVE

ERC SHIFTING TIMES (APPROX.) 050 - 600K MOTO DRIVE REDUCERS

Unit Size	ERC Type	Speed Variation With Time In Seconds				
		2:1	3:1	4:1	5:1	Maximum
50	Heavy/Auto Duty	17.0	21.5	23.0	25.0	28.0
100	Heavy/Auto Duty	11.0	17.0	21.0	24.0	30.0
200	Heavy/Auto Duty	11.0	17.0	22.5	27.5	40.0
300	Heavy/Auto Duty	12.0	19.0	24.0	29.0	42.0
400	Heavy Duty	16.0	26.0	33.0	38.0	46.0
	Automatic Duty	5.0	7.5	8.5	9.5	10.5
500	Heavy Duty	21.0	36.0	45.0	50.0	53.0
	Automatic Duty	5.0	7.5	9.0	10.0	11.5
600	Heavy Duty	22.0	37.0	42.0	48.0	54.0
	Automatic Duty	5.5	8.0	9.5	10.0	11.0
600K	Heavy Duty	23.0	38.0	--	--	--
	Automatic Duty	6.5	9.5	--	--	--

Automatic Duty Type Controls are equipped with ball screw shifting mechanism on sizes 400 through 600K

AIRTOL SHIFTING TIMES (SIZE 100 TO 600)

Unit Size	Max. Speed Range	2:1 Speed Range
100, 200, & 300	5 seconds	3 seconds
400,500,600	8 seconds	4 seconds

ERC MOTOR SPECIFICATIONS HEAVY DUTY - SIZES 050 THRU 600K MOTO DRIVE REDUCERS

Size	Volts	Phase	Hz	Amperes	Type or Model	Enclosure	Duty	Push-button	Wiring Dia.	Remarks
050- 100	115	1	60/50	0.19	605036-03-G	TENV	30.00%	C-H 10250ED6317	1-62943	Built-In Brake and Thermal
200- 300	115	1	60/50	0.80	605038-20-A	TENV	30.00%	C-H 10250ED6317	1-62943	Built-In Brake and Thermal
400- 600K	115	1	60	2.80	CM	TENV	25.00%	C-H 10250ED6317	D42000-07C	Friction Safety Clutch

MOTO DRIVE HORSEPOWER RATINGS

PARALLEL SHAFT UNITS

REEVES VARI-SPEED MOTO DRIVE horsepower ratings for parallel shaft units given in the Ratings and Prices Section are defined as the capability of the listed unit to deliver its rating at the OUTPUT SHAFT at the listed maximum output speed. When drive motor specifications include 50 Hz., explosion-proof, multi-speed, BISSC or any combination of these features, the horsepower rating is the input of the MOTO DRIVE belt case.

The MOTO DRIVE as listed is, therefore, considered to be a constant torque device over its entire speed range with its horsepower capability at the output shaft varying directly with the output speed.

RIGHT ANGLE SHAFT UNITS

REEVES VARI-SPEED MOTO DRIVE horsepower ratings for right angle shaft units as listed are defined as capable of delivering its catalog rating into the right angle reducer at maximum speed. For the output ratings of MOTO DRIVES with right angle reducers, refer to the Selection tables.

INTERMEDIATE SPEED

Most REEVES MOTO DRIVES have a built in constant horsepower range. Torque capacity actually increases as the output speed is reduced from MAX to INT Speed. Although maximum belt life is obtained through rating the REEVES MOTO DRIVE as a constant torque device (use Output Torque listed under MAX SPD as constant torque through entire speed range), the drive may also be rated by allowing the torque capacity to increase linearly from MAX to INT speed, then holding the OUTPUT TORQUE value at INT speed constant from INT speed to MIN. speed.

DETERMINING TORQUE AND HORSEPOWER VALUES

A REEVES VARI-SPEED MOTO DRIVE is capable of delivering constant torque over its entire speed range, as determined by the following formula:

Torque Capacity (inch-lbs.) =

$$\frac{\text{Output Horsepower} \times 63,025}{\text{Maximum Output rpm}}$$

When the torque requirement is constant over the speed range, the horsepower required can be calculated as follows:

$$\text{Horsepower} = \frac{\text{Torque (inch-lbs.)} \times \text{Maximum rpm}}{63,025}$$

$$\text{or, Horsepower} = \frac{\text{Torque (ft-lbs.)} \times \text{Maximum rpm}}{5,252}$$

When the requirement is specified in terms of pull, or tension, and speed of travel, such as when selecting a MOTO DRIVE for a conveyor, or the continuous processing of paper, cloth, sheet metal or web material, the horsepower would be determined as follows:

$$\text{Horsepower} = \frac{\text{Pull (pounds)} \times \text{Maximum Speed of Travel (F.P.M.)}}{33,000}$$

CONSTANT HORSEPOWER

Whenever an application requires constant horsepower over a portion of the speed range, or whenever the duty requirements exceed the basis for catalog ratings, contact Applications Engineering.

NOTE: For additional information on rating curves request paper "MOTO DRIVE Performing Rating Curves."

LUBRICATION

Refer to Instruction manual at www.master-pt.com.

MOTO DRIVE

Overhung Load Capacities

A. Mounting - Sprockets, sheaves, gears and pulleys on output shaft.

In general, the closer a sprocket, sheave, gear or pulley is mounted to the supporting bearings of an output shaft, the less will be the load on the bearing and the less the stress on the shaft.

The overhung load capacities given below are calculated on the basis of the load being located one shaft diameter from the bearing housing. Make sure that the overhung load capacity of the output shaft is not exceeded.

B. Determining Minimum Pitch Diameters for Connecting Drives

When the type of drive load connection is a chain and sprocket, it is necessary to be sure the sprocket pitch diameter is adequate. Sprockets of small pitch diameter produce greater overhung loads than do larger sprockets. The same applied to other types of drive load connections, i.e., sheaves, gears or pulleys.

The following formula may be used to calculate the minimum allowable pitch diameter (min. P.D.) of the load connecting device.

$$\text{Min. P.D.} = \frac{\text{Maximum output HP} \times F \times 126,000}{\text{Allowable overhung load} \times \text{Max. output rpm}}$$

Where:

F = Factor for type of load connecting device

Such as:

F = 1 for chain and sprocket with one side tight,

F = 1.25 for chain and sprocket with both sides tight,

F = 1.25 for gear,

F = 1.5 for V-belt and sheave with drive and driven sheaves of equal diameter,

F = 1.5 to 2 for V-belt and sheave with drive and driven sheaves of unequal diameter,

F = 2.5 for flat pulley and flat belt.

Use allowable overhung load capacity for appropriate MOTO DRIVE and reducer from tables below.

OVERHUNG LOAD CAPACITY - IN POUNDS PULL ONE SHAFT DIAMETER FROM SHAFT STEP NON-GEAR - SIZES #050 THROUGH #600K MOTO DRIVE REDUCERS

Max. Output Speed rpm	MOTO DRIVE SIZE							
	050	100	200	300	400	500	600	600K
	.25 - .50 HP	.75 - 1 1.50 HP	2 - 3 HP	5 - 7.50 HP	10 - 15 HP	20 - 25 HP	30 - 40 HP	50 HP
Any cataloged maximum speed	73	189	288	343	344	1288	1724	1578

MOTO DRIVE OVERHUNG LOAD CAPACITIES

RIGHT ANGLE REDUCERS - W12, W16, W21, W28₍₁₎

Output Speed rpm (Max.)	W12		W16					W21					W28			
	.25 HP	.50 HP	.25 HP	.50 HP	.75 HP	1 HP	1.50 HP	.75 HP	1 HP	1.50 HP	2 HP	3 HP	2 HP	3 HP	4 HP	7.50 HP
520	540	540	-	-	630	-	-	-	-	-	-	-	-	-	-	-
420	540	530	-	-	690	660	640	-	-	-	930	890	-	-	-	-
350	540	520	-	-	700	680	650	-	-	-	960	920	-	-	1530	1460
280	540	510	-	-	730	710	680	-	-	-	1000	950	-	1680	1590	1490
230	540	490	-	-	770	760	720	-	-	1090	1050	1000	-	1780	1680	-
190	530	480	-	850	820	790	740	-	-	1150	1100	1020	-	1500	1380	-
155	520	460	-	950	880	850	790	-	1250	1220	1170	1080	1660	1570	-	-
125	510	440	-	990	910	870	-	1010	1280	1250	1210	-	1760	1630	-	-
100	490	400	-	990	980	950	-	1100	1320	1310	1280	-	1880	1800	-	-
84	480	360	860	980	970	-	-	1320	1320	1300	-	-	1930	-	-	-
68	460	-	860	980	960	-	-	1320	1310	-	-	-	2040	-	-	-
56	450	-	860	980	-	-	--	1310	1310	-	-	-	-	-	-	-
45	430	-	860	970	-	-	-	1310	1290	-	-	-	-	-	-	-
37	400	-	990	960	-	-	-	1310	-	-	-	-	-	-	-	-
30	380	-	980	950	-	-	-	1290	-	-	-	-	-	-	-	-
25	-	-	980	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	850	-	-	-	-	-	-	-	-	-	-	-	-	-

RIGHT ANGLE COMBINATION REDUCERS - C12, C16, C21, C28₍₁₎

Output Speed rpm Max.)	C12		C16					C21							C28								
	.25 HP	.50 HP	.25 HP	.50 HP	.75 HP	1 HP	1.50 HP	.25 HP	.50 HP	.75 HP	1 HP	1.50 HP	2 HP	3 HP	5 HP	.50 HP	.75 HP	1 HP	1.50 HP	2 HP	3 HP	5 HP	7.50 HP
420	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1400	--	--	--	--	--	--	--	2000
350	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1500	--	--	--	--	--	--	--	3300
280	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1650	--	--	--	--	--	--	--	3600
230	--	--	--	--	--	--	--	--	--	--	--	--	--	1900	1800	--	--	--	--	--	--	--	3900
190	--	--	--	--	--	--	--	--	--	--	--	--	--	1950	1900	--	--	--	--	--	--	--	4200
155	--	--	--	--	--	--	--	--	--	--	--	--	2100	2050	2040	--	--	--	--	--	--	--	4500
166	--	--	--	--	--	--	1010	--	--	--	--	--	--	--	2160	--	--	--	--	--	--	3800	--
125	--	--	--	--	--	--	1420	--	--	--	--	--	2200	2200	2300	--	--	--	--	--	--	4080	4800
100	--	--	--	--	--	--	1500	--	--	--	--	--	2400	2860	2380	--	--	--	--	--	--	5200	5100
84	--	390	--	--	--	1230	1540	--	--	--	--	--	2500	2480	--	--	--	--	--	--	--	5400	5300
68	1180	1170	--	--	1680	1660	1640	--	--	--	--	2900	2650	2600	--	--	--	--	--	--	--	5700	5600
56	1180	1170	--	--	1800	1780	1750	--	--	--	--	2900	2830	2770	--	--	--	--	--	--	5900	5900	5800
45	1180	1160	--	1800	1790	1760	1720	--	--	--	--	2900	2900	2840	--	--	--	--	--	5600	5900	5800	5700
37	1180	1150	--	1800	1780	1740	1680	--	--	--	2500	2860	2880	2760	--	--	--	--	--	5900	5900	5800	--
30	1170	1140	--	1790	1760	1720	--	--	--	2800	2700	2820	2840	--	--	--	--	--	--	5900	5900	5700	--
25	1170	1130	--	1780	1740	1680	--	--	--	2950	2900	--	2800	--	--	--	--	--	5900	5900	5800	5600	--
20	1160	1140	--	1780	1720	1600	--	--	--	3050	2900	--	2640	--	--	--	--	--	5900	5900	5800	--	--
16.5	1150	--	1800	1760	1680	--	--	--	3080	2900	2880	--	--	--	--	--	6300	6300	5900	5800	5700	--	--
13.5	1140	--	1800	1740	1600	--	--	--	3080	2880	2860	--	--	--	--	--	6300	6300	5900	5800	5600	--	--
11.0	1140	--	1790	1680	--	--	--	--	3040	2880	2820	--	--	--	--	--	6300	6300	5900	5800	--	--	--
9.0	1130	--	1780	1660	--	--	--	--	3000	2850	2740	--	--	--	--	--	6300	6250	5800	5700	--	--	--
7.5	1080	--	1770	1580	--	--	--	--	2900	2800	--	--	--	--	--	--	6280	5900	5800	--	--	--	--
6.0	--	--	1750	--	--	--	--	--	2860	--	--	--	--	--	--	--	6260	6200	--	--	--	--	--
5.0	--	--	1720	--	--	--	--	--	2840	--	--	--	--	--	--	6300	6250	--	--	--	--	--	--
4.0	--	--	1680	--	--	--	--	--	2760	--	--	--	--	--	--	6270	--	--	--	--	--	--	--
3.3	--	--	1680	--	--	--	--	--	--	--	--	--	--	--	--	6250	--	--	--	--	--	--	--
2.7	--	--	--	--	--	--	--	3000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2.2	--	--	--	--	--	--	--	2980	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

(1) In pounds pull at one shaft diameter from gearbox bearing housing.

MOTO DRIVE OVERHUNG LOAD CAPACITIES

PARALLEL REDUCERS

SINGLE REDUCERS - SIZES 01, 11, 21, 31, 41, 51, 61

(IN POUNDS PULL ONE SHAFT DIA. FROM
SHAFT STEP HOUSING)

Maximum Output Speed rpm	01		11			21			31			41			51			61			
	.25 HP	.50 HP	.75 HP	1 HP	1.50 HP	1.50 HP	2 HP	3 HP	3 HP	5 HP	7.50 HP	7.50 HP	10 HP	15 HP	15 HP	20 HP	25 HP	25 HP	30 HP	40 HP	50 HP
3940	80	75	125	...	...	...	...	...	...	...	...	...	...	...	...	1030	1015	...	1220	...	...
3220	85	80	130	130	125	...	255	250	...	480	465	...	670	660	...	1090	1070	...	1295	...	...
2630	90	95	140	135	130	...	270	260	...	510	500	...	715	705	...	...	...	...	...	...	...
2150	95	95	150	145	140	...	290	280	...	545	530	...	760	743	...	...	...	...	...	...	...
1750	100	100	160	155	145	...	305	295	...	575	560	...	805	790	...	...	...	...	...	...	...
1430	110	105	165	160	155	...	325	315	...	575	560	...	855	833	...	...	...	...	...	...	...
1170	115	110	180	175	165	...	345	335	...	650	625	...	910	883	...	...	...	...	...	...	...
950	125	120	190	185	170	...	375	370	...	690	660	...	965	930	...	...	...	...	...	...	...
780	130	125	200	195	180	...	400	390	...	730	690	...	1050	1020	...	...	...	...	...	...	...
640	140	130	210	205	190	...	425	415	...	770	730	...	1110	1075	...	...	...	...	...	...	...
520	150	140	225	215	...	...	450	435	...	815	765	...	1175	1130	...	...	...	...	...	...	...
420	160	145	235	225	...	...	475	460	...	860	...	...	1240	1190	...	...	...	...	...	...	...
350	170	155	245	235	...	...	500	485	...	955	895	...	1300	1240	...	...	...	...	...	...	...
280	180	160	260	245	...	...	530	510	...	1005	930	...	1370	1295	...	...	...	...	...	...	...
230	190	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

DOUBLE REDUCERS - SIZES 02, 12, 22, 32, 42, 52

Max. Output Speed rpm	02		12			22				32			42				52							
	.25 HP	.50 HP	.75 HP	1 HP	1.50 HP	1 HP	1.50 HP	2 HP	3 HP	3 HP	5 HP	7.50 HP	5 HP	7.50 HP	10 HP	15 HP	10 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP	
640	385	380	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
520	410	405	320	315	...	...	835	830	795	...	1075	1050	...	...	2255	2180	...	...	...	...	...	...	4100	
420	440	435	340	335	...	...	895	885	830	...	1140	1100	...	...	2385	2300	...	...	...	...	...	...	4330	
350	470	460	360	355	...	...	945	940	865	...	1210	1170	...	...	2405	2390	...	...	...	4735	4700	4660	4580	4500
280	500	490	385	375	360	...	1015	985	900	...	1290	1250	...	2730	2660	2510	...	...	...	5040	5000	4950	4860	4765
230	535	520	405	400	380	...	1080	1025	915	...	1370	1300	...	2820	2815	2600	...	...	...	5320	5265	5200	5100	5000
190	570	550	430	415	...	...	1135	1075	945	1500	1420	1340		2950	2860	2700	...	...	...	5605	5540	5480	5350	5215
155	605	585	455	440	...	...	1200	1110	955	1590	1490	...	...	3075	2985	2788	...	...	...	5915	5835	5755	5600	5435
125	650	625	485	465	...		1250	1155	970	1685	1560	...	...	3215	3065	...	...	6355	6265	6170	6075	5880	...	
100	695	665	510	490	...	...	1295	1180	...	1790	1645	...	...	3360	3175	...	...	6750	6750	6510	6390	6150	...	
84	730	695	535	...	...	1475	1340	1205	...	1875	1715	...	3865	3480	3265	...	6920	6920	6920	6800	6650	...	...	
68	780	740	560	...	...	1540	1375	1210	...	1990	...	...	...	3595	...	...	...	...	6920	6920	6920	...	...	
56	825	775	585	...	...	1595	1395	1190	...	2095	...	...	4015	...	...	...	6920	6920	6920	6920	...	...		
45	880	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

TRIPLE REDUCERS - SIZES 03, 13, 23, 33, MAXIMUM

Maximum Output Speed rpm	03		13			23			33			
	.25 HP	.50 HP	.25 HP	.50 HP	.75 HP	1 HP	1.50 HP	2 HP	1 HP	1.50 HP	2 HP	3 HP
125	645	620	...	...	..	...	...	...	...	...	...	...
100	690	660	...	...	.505	1390	1265	1140	...	...	...	1790
84	730	690	...	...	530	1445	1290	1140	...	...	1950	1880
68	775	725	620	585	550	1515	1310	1125	...	...	2080	1995
56	880	760	655	615	...	1565	1565	1350	...	...	2140	2090
45	875	745	700	650	580	1610	1340	...	...	2370	2320	2140
37	920	685	740	680	...	1590	1230	...	...	2485	2415	2050
30	970	580	785	705	...	1685	...	...	2750	2660	2585	...
25	1010	...	825	...	...	1680	...	...	2930	2800	2690	...
20	...	...	830	...	...	...	...	...	3090	2965	...	...
16.5	...	...	915	...	...	...	...	...	3260	3100	...	...
13.5	...	...	960	...	...	...	...	...	3315	...	...	...

TRIPLE REDUCERS - SIZES 43, 53

Maximum Output Speed rpm	43							53							
	1 HP	1.50 HP	2 HP	3 HP	5 HP	7.50 HP	10 HP	3 HP	5 HP	7.50 HP	10 HP	15 HP	20 HP	25 HP	30 HP
100	...	...	...	...	3940	3610	3675	...	...	...	...	6920	...	...	...
84	...	...	...	...	4125	3960	3795	...	...	...	6920	6920	6920	6920	...
68	...	...	...	...	4335	3030	...	...	...	6920	6920	6920	6920	6920	6920
50	...	...	...	4445	4370	4040	...	...	...	6920	6920	6920	6920	6920	...
45	...	...		4445	4445	...	...	...	6920	6920	6920	6920	6920	...	...
37	...	...	...	4445	4445	...	...	...	6920	6920	6920	6920	6920	...	...
30	...	...	4445	4445	...	...	...	6920	6920	6920	6920	6920	...	...	...
25	...	4445	4445	4445	...	...	...	6920	6920	6920	6920	...	...	...	...
20	...	4445	4445	...	...	...	...	6920	6920	6920	6920	...	...	...	...
16.5	4445	4445	4445	...	...	...	...	6920	6920	6920	...	...	...	...	...
13.5	4445	4445	4445	...	...	...	...	6920	6920	6920	...	...	...	...	...
11.0	4445	4445	...	...	...	...	...	6920	...	...	...	...	...	...	...
9.0	4445	...	...	...	...	...	...	6920	...	...	...	...	...	...	...
7.5	4445	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6.0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

MOTO DRIVE

WIRING DIAGRAMS

ELECTRIC REMOTE CONTROLS

For Sizes 050 - 300 MOTO DRIVES with 115 VAC 1 PH, Heavy Duty Cam Type:

Standard Pushbutton	1-62943
Standard Pushbutton with Transformer	1-62945
Return to Low Speed before Stop	D42000-07-P

For Sizes 400-600K MOTO DRIVES with 115 VAC 1 PH
Heavy Duty ERC with Master Gearmotor:

Standard Pushbutton	D42000-07-C
Standard Pushbutton with Transformer	D42000-07-D

For Sizes 400-600K MOTO DRIVES with Heavy Duty Ball Screw Shifting Motor:

Standard Pushbutton	1-65254
Standard Pushbutton with Transformer	1-65255
Return to Low Speed before Stop	1-65275

MISCELLANEOUS

AIRTR0L Supply Air Solenoid Valves	D42000-25-C
AIRTR0L Return to Low Speed before Stop	D62000-14-A
LED Digital Tachometer Model DM4000	D62000-02-K
LED Digital Tachometer; Multiple Indicators	D62000-02-L
LCD Digital Tachometer	D62000-02-M

OTHER

Mechanical Automatic Control: Lever angle versus shifting force and vari shaft speed

100 MOTO DRIVE	2-57189
200 MOTO DRIVE	2-59779

MOTO DRIVE

TEMPERATURE LIMITS

Max. Ambient for Standard Ventilated MOTO DRIVES	130° F
Max. Ambient for XT MOTO DRIVES	115° F
Min. Ambient for Belt Operation	-20° F
Min. Ambient for Reducer, with Oils Listed in Maintenance Manual (For Lower Temperature Consult Application Engineering)	0° F
Min. Ambient for Standard Grease Packed Bearings (For Lower Temperature Consult Application Engineering)	-15° F
Min. Ambient for Standard Grease Lubricated Discs (For Lower Temperature Consult Application Engineering)	-5° F
Max. Ambient Storage Temperature (Not Running) Extended storage above 125F will result in belt deterioration	175° F
Min. Ambient Storage Temperature (Not Running)	-65° F

APG

MASTER XL

COMBOGEAR

MOTO DRIVE

ULTIMA

PULLEYS

MOTO DRIVE

INSTALLATION

MOTO DRIVE units with Right Angle reducers ship installation-ready with gear units factory filled with lubricant. MOTO DRIVE units with Parallel reducers are shipped without lubricant. Refer to the instruction manuals on www.master-pt.com for lubrication information. Some surfaces are coated with corrosion preventive compound with should be cleaned prior to mounting the output components. Disc faces are shipped with corrosion resistant compound that does not need to be removed prior to start-up. This compound will wear off quickly in service. A rigid base is essential for mounting the MOTO DRIVE unit because of the high torque capability of these drives. When used with coupling outputs, shimming will be necessary to assure proper alignment. When belt or chain drives outputs are used, it is desirable to install the sheave, pulley or sprocket as close to the MOTO DRIVE output cover as is possible.

NOTE: For comprehensive installation instructions and safety precautions refer to manual.

MAINTENANCE

Reeves MOTO DRIVE, with it's rugged construction and proven reliability, requires little maintenance. Occasional visual inspections to check for hardware security, leakage, and general overall condition is good practice with any machine. In an extremely dirty environment, heavy accumulation of dirt can cause overheating. An occasional washdown or wipe-off is good practice with any machine. Every 6 months or 2,000 hours running time, an inspection should be made for unusual noises, belt wear, bushing wear and lubricant conditions. By following the instructions in the manual, you can assure years of dependable service from you REEVES MOTO DRIVE unit. Complete maintenance instructions and MOTO DRIVE warnings should be reviewed prior to installation.

See manual at www.master-pt.com.