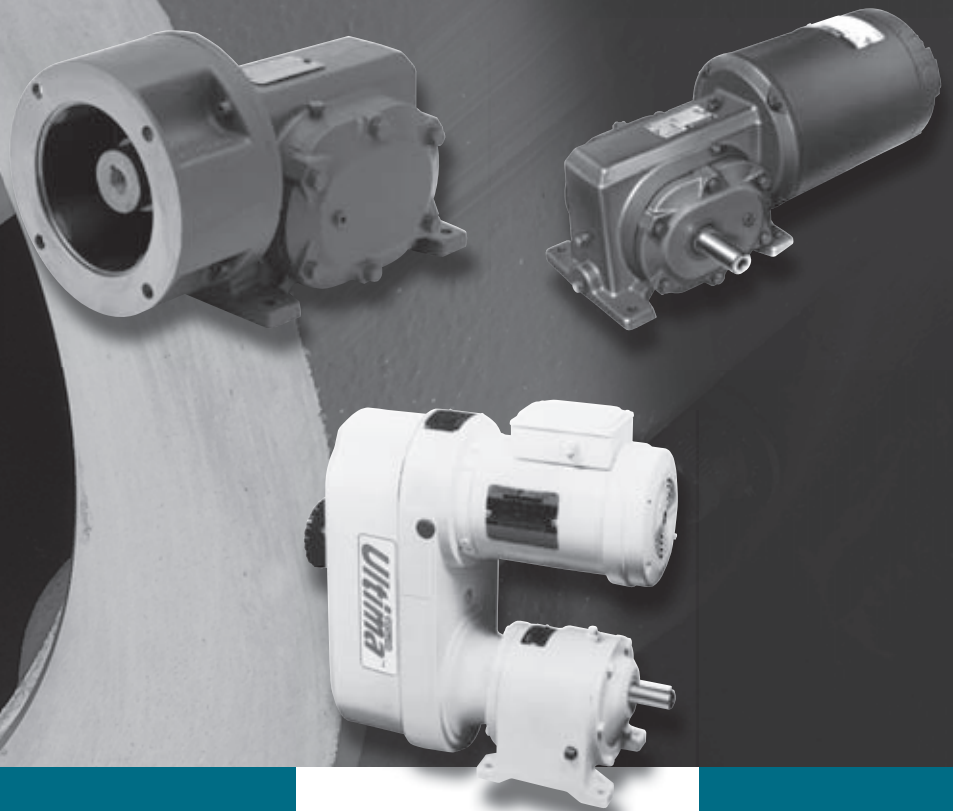


DODGE[®]
RELIANCE

2009 CUSTOM CLASSICS CATALOG



BALDOR

DODGE Custom Classics

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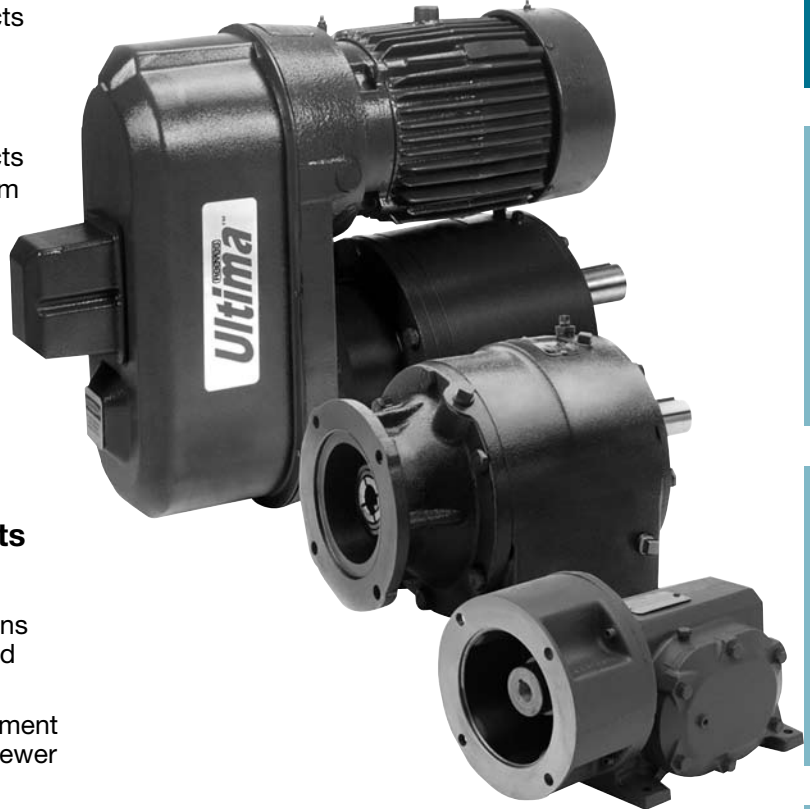


Custom Classics

Products That Still Serve You Well

Custom Classics are popular DODGE brand products that are no longer mass-produced, but may be available from stock or on a made-to-order basis.

Although newer technology exists, there are many reasons you may wish to continue using the products that have served you so well in the past. The Custom Classics program makes it possible for you to continue to use these proven performers until you are ready to upgrade. Custom Classics are made to the specification of the original product equipment, so they fit where the original unit did. Using the same components as the original, Custom Classics are manufactured and completely tested in an ISO 9002 certified facility.



Advantages Of Custom Classics Products

Newer technology offers increased reliability and functionality, enhanced ease-of-use, and greater efficiency and economy. However, there are situations where continuing with existing DODGE products and technology makes sense. For instance:

- Custom Classics eliminate the high cost of equipment redesign or process modification to incorporate newer technology.
- The need to retrain operators and maintenance personnel is deferred until you are ready to change.
- All documentation remains the same, even part and model numbers.
- You can continue to utilize your spare parts inventory, and eliminate restocking costs.
- Custom Classics satisfy your need for new or replacement units. Whether one unit or multiple units for process expansion.

Products Supported By The Custom Classics Program

The Custom Classics line-up is comprised of DODGE identified standard products. Availability of made-to-order Custom Classics products and related Renewal Parts is contingent on component availability.

For more information, please contact your local Dodge Authorized Distributor, Dodge Office, or visit our web sites at www.pt-place.com.

INTRODUCTION

DODGE Custom Classic Line Up

Product Name	Type of Gearing	Efficiency	Gear Stages	Speed Range	Ratio Range	HP Capability	Input Style			Output Shafts	Output Flange	Bolt on Foot (Multi-mount)	Lubricant
							Integral Gearmotor	C-Face	Separate				
APG	Parallel	98% per stage	Single Double Triple	-	1.22:1 to 129.7:1	75 HP	X	X	X	Solid	X	-	Synthetic
Master XL Parallel	Parallel	98% per stage	Single Double Triple	-	2.25:1 to 129.7:1	15 HP	X	X	-	Solid	Limited	-	Mineral
Master XL Worm	Worm	60-85%	Single	-	5:1 to 60:1	20 HP	X	X	-	Solid	X	X	Mineral
Master XL Combination	Worm/Helical	50-85%	Double	-	20:1 to 288:1	20 HP	X	X	-	Solid	X	X	Mineral
Combination Tigear	Worm/Helical	50-90%	Double	-	7.50:1 to 300:1	10 HP	-	X	-	Solid, hollow (straight & tapered)	X	X	Synthetic
Reeves Motodrive	Parallel, Worm, Worm/Helical	-	Single Double Triple	Up to 10:1	1.5:1 to 300:1	50 HP	-	X	X	Solid	X	-	Mineral
Reeves Ultima	Parallel, Worm, Worm/Helical	-	Single Double Triple	Up to 8:1	1.22:1 to 300:1	10 HP	-	X	-	Solid	X	-	Synthetic Mineral
Reeves Pulleys	-	-	-	UP to 3:1	-	15 HP	-	-	-	-	-	-	-

NOTE: For more information on lubricants, refer to DODGE Endorsed Lubricants

DODGE Endorsed Lubricants

Authorized For Use In Dodge® Products

Among the factors that contribute to the performance and overall service life of a reducer, selection and use of the proper lubrication is very important. A number of lubricants have been tested and authorized for use in DODGE and MASTER gear reducer products. Approved lubricants may be used with confidence for optimum performance under predetermined conditions.

Use of a lubricant that is not factory approved will void warranties and may result in poor performance, overheating and extensive gear wear. These conditions will compromise the integrity of the gearbox and may contribute to catastrophic or premature failure of the unit.



Gear units manufactured by DODGE are typically filled with lubricant at the factory (See specific reducer series for exceptions) to provide value and optimum performance from all rotating components. When performing preventative maintenance it is important to choose a lubricant of comparable quality to the original.

What Oil Is Right For Your Application?

Here are a few characteristics of the different types that we offer:

Standard Mineral Oil

- For use in a variety of applications
- High wear resistance
- Great protection against rust and corrosion
- Resistant to oxidation and thermal breakdown giving long life to lubricant
- With the addition of EP Additives gain superior protection against rust and corrosion as well as excellent load-carrying properties (Lubricant with EP Additives not suitable for use in gear units with internal backstops)

Premium Synthetic Oil

- Can extend time between required maintenance (Refer to product instruction manuals)
- Reduce heat and friction in gear mesh giving longer oil life
- Better thermal stability than mineral oils
- Maintain viscosity over temperature range better than mineral oils
- USDA & NSF H1 rated lubricants are for products that are applied in the food industry

Why Use DODGE Endorsed Lubricants?

- Ensures compatibility with internal reducer components
- Minimizes risk of damage to unit
- Have the right grade of lubricant in a practical quantity that is easy to handle and matched to the gear product
- Optimizes gear reducer performance

INTRODUCTION

DODGE Endorsed Lubricants

DODGE Endorsed Lubricant Specifications & Part Numbers

ISO Grade	Product Line	Ambient Temperature (°F) *	Lubricant Type	Volume	Ordering Part Number
150	Optional	-39 to +135	Synthetic	Quart	41170966AP
				Gallon	41170966AR
		-21 to +135	Synthetic - H1	Quart	334861
				Gallon	334860
220	QUANTIS	0 to +135	Mineral - with EP Additives	Quart	41170966AK
				Gallon	41170966AL
	TORQUE ARM, TAIL, MAXUM	+10 to +135	Mineral	Quart	41170966AS
				Gallon	41170966AT
	Optional	-34 to +135	Synthetic	Quart	41170966AU
				Gallon	41170966AV
320	Optional	+20 to +135	Mineral	Quart	41170966AW
				Gallon	41170966AX
		-28 to +135	Synthetic	Quart	41170966AY
				Gallon	41170966AZ
460	APG, Combination TIGEAR	-34 to +135	Synthetic	12 oz.	41170966AB
				Quart	41170966AE
				Gallon	41170966AF
	TIGEAR-2	-12 to +135	Synthetic - H1	Quart	334863
				Gallon	334862

* Please note that the +135 deg F max ambient temperature is listed to allow for a 65 deg temperature rise within the enclosed gear box. Maximum sump temperature should not exceed 200 deg F.

APG

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Introduction

DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

DODGE APG American Parallel Gearing

Power Density = Horsepower per cubic inch

DODGE APG

High Power Density

means lower initial costs through...

Optimized Gear Geometry

- Reduced helix angle for less thrust
- Case-carburized and precision-ground helical gears

Minimum Bearing Spans

- Mid-case bearing supports for less shaft deflection
- 5000 hours L10 life at full-rated load

Cast Iron Housing

- Computer modeled
- Low profile



Patented Coupling System

The patented C-adapter utilizes a cross split, keyed hollow bore and a clamp collar to reduce fretting corrosion. Easy C-face motor removal is the result.

The C-face shaft is hollow allowing for pinion removal once the cross pin and internal pipe plug are removed. These features are unique to APG.

Patent No. 4,730,951.





Designed For Your Needs

The world's greatest power density

- FHP through 75 HP
- 1.2 through 129.7:1 AGMA ratios
- C-face reducers
- Integral gearmotors
- Shaft-in separate reducers
- Foot or flange mounts

User friendly for lower operational costs

- USDA approved finish
- Factory filled with premium lubricant - USDA H2 approved
- High efficiency - 98% per gear stage
- Easy C-face motor installation/removal

Less time spent on maintenance and repair

- Easy access to seals and internal parts from both ends of the reducer
- Pry slots on end covers
- Joint sealant - eliminates leaking gaskets
- Extended maintenance schedule - oil change required only once a year

Other available options

- Premium/special purpose motors:
 - Energy efficient motors
 - Brakemotors
 - Washdown motors
 - AC variable speed controller packages
 - Servo and synchronous motor compatibility
- Output flanges
- High ratio capability
- XT-washdown gearcase option
- Premium E-Z KLEEN® modification
 - Nylon 11 coated housing
 - Stainless steel hardware
 - Electroless nickel plated output shaft



APG C-Face Reducer



APG Separate Reducer



APG Gearmotor



APG E-Z KLEEN C-Face Gearmotor

APG

The **DODGE APG** Speed Reducer shall be suitable for C-face, separate, or integral gearmotor construction in either base or output flange mountings, and available in single, double, or triple reduction ratios.

The reducer housing and covers shall be constructed of corrosion resistant, class 30 gray iron with cast internal ribbing for added strength. All housings and end covers shall be either doweled or tenoned, and precision machined to assure accurate alignment for all gear sets.

Gearing shall be of single helical design, and crown shaved or ground to provide an ellipsoid tooth form to eliminate tooth end wearing and assure meshing in the strongest tooth area. All gears shall be case carburized to insure a high surface durability and resilient tooth core for greater impact resistance and longer service life.

The input pinion shall be of the shank pinion design that is assembled by being pressed and cross pinned into place.

Reducer bearings shall be the taper roller or ball type and provide a minimum 25,000 hour average life. All seals shall be of the spring loaded type, made of viton (input seals) and nitrile rubber (output seals.)

Reducer gears and bearings shall be splash lubricated using an extended life synthesized hydrocarbon lubricant containing additives that enhance oxidation stability and provides protection against rust. The lubricant allows a wide operating temperature range of -105° to 165° ambient and meets USDA class H-2 standards.

C-face reducers shall be of the cross split hollow bore and clamp collar design so as to eliminate backlash at the motor connection, and eliminate, or minimize, fretting corrosion between the motor shaft and the reducer stub shaft.

HOW TO ORDER

APG Reducers and Gearmotors have part numbers assigned that can be found on the selection pages. Refer to the part number when ordering. Always specify mounting position if other than standard, and specify flange mounting and accessories/ modifications, if required.

Refer to the following procedure for selection assistance.

Step 1: For applications with one start/hr. or less and nonpulsating load (starting factor = 1.0) skip Steps 2 and 3 and proceed to Step 4. For applications with more than one start/hr. proceed to Step 2.

Step 2: Determine inertia ratio.

Inertia Ratio = $\frac{\text{Driven Inertia}}{\text{Driving Inertia}}$

Where: Driving Inertia is defined as the motor inertia. This value must be provided by the motor manufacturer. On APG Gearmotors, driving inertia data is available from your DODGE Sales Engineer or Application Engineering.

Driven Inertia is defined as the "load inertia" referred to the motor speed. The "load inertia" must be provided by the driven machine manufacturer. For assistance contact application engineering or see the following formulas.

$$\text{Rotating Driven Inertia} = \text{Load Inertia} \times \left(\frac{\text{Load RPM}}{\text{Motor RPM}} \right)^2$$

$$\text{Linear Driven Inertia} = W \times \left(\frac{V}{6.28 N} \right)^2$$

Where: W = Weight (Lbs.)
V = Linear Velocity (Ft./Min.)
N = Motor RPM

If these values are unobtainable proceed to Step 3.

NOTE: Gearbox Inertias, not addressed above, are typically negligible. If required, inertia values for the APG unit may be obtained from your DODGE Sales Engineer or Application Engineering.

APG

Step 3: With inertia ratio determined, use Chart 1 to select starting factor.

Chart 1: Starting Factors

Starts HR	Inertia Ratios				Unknown Inertia Ratio
	0.0-0.5	>0.5-1.0	>1.0-2.0	>2.0-4.0	
1	1.00	1.00	1.00	1.00	1.00
2	1.00	1.00	1.00	1.15	1.15
5	1.00	1.00	1.13	1.33	1.33
10	1.00	1.01	1.21	1.45	1.45
15	1.00	1.03	1.26	1.51	1.51
20	1.00	1.05	1.29	1.56	1.56
25	1.00	1.05	1.31	1.59	1.59

If starting frequency is greater than 25 starts/hr., contact application engineering at 812-376-1100.

Step 4: Determine “Driven Machine Factor” from Chart 2 below.

Chart 2: Driven Machine Factor

Prime Mover	Duration of Service Per Day	Driven Load Classification		
		Uniform	Medium Shock	Heavy Shock
Electric Motor	Intermittent 2 hrs.	0.90	1.00	1.50
	Up to 10 hours	1.00	1.25	1.75
	10-24 hours	1.25	1.50	2.00
Multi-cylinder Internal Combustion Engine	Intermittent 2 hrs.	1.00	1.25	1.75
	Up to 10 hours	1.25	1.50	2.00
	10-24 hours	1.50	1.75	2.25
Single Cylinder Internal Combustion Engine	Intermittent 2 hrs.	1.25	1.50	2.00
	Up to 10 hours	1.50	1.75	2.25
	10-24 hours	1.75	2.00	2.50

Step 5: Determine service factor.

Service Factor = Starting Factor x Driven Machine Factor

Step 6:

Reducer Selection-

Using the service factor obtained in Step 5, calculate the equivalent HP by multiplying the demand HP to be transmitted by the service factor.

$$\text{Equivalent HP} = \frac{\text{Demand HP} \times \text{Service Factor}}{\text{Nominal Efficiency}}$$

Where: Single Reduction Nominal Eff. = 0.98
Double Reduction Nominal Eff. = 0.96
Triple Reduction Nominal Eff. = 0.94

Gearmotor Selection -

Determine class of service from Chart 3.

Chart 3: Class of Service

Service Factor	Class of Service
0.9-1.0	I
>1.0-1.4	II
>1.4-2.0	III

For service factors greater than 2.0, a DODGE APG reducer must be selected.

Step 7:

Reducer Selection -

From rating tables pages D1-7 through D1-48, make reducer selection based on input RPM, ratio, and equivalent HP.

Gearmotor Selection -

Go to the desired HP Gearmotor Selection Table for the appropriate class of service and output RPM (or reduction ratio). This will indicate gearcase size, motor frame size, output torque, and output OHL capacity.

Step 8: Check overhung loads by using the following formula:

$$\text{OHL} = \frac{126,000 \times \text{HP} \times \text{Fc} \times \text{Lf}}{\text{PD} \times \text{RPM}}$$

Where: OHL = Overhung Load (lbs.)

HP = Demand Horsepower

Fc = Load Connection Factor

Chain Drive: Fc = 1.00

Synchronous Belt Drive Fc = 1.10

Spur or Helical Gear Fc = 1.25

V-Belt Drive Fc = 1.50

Flat Belt Drive Fc = 2.50

Lf = Load Location Factor. For Lf of low speed shaft see page D1-85.

PD = Pitch Diameter (inches)

RPM = Revolutions per Minute (output)

To minimize overhung load and increase bearing life, load centerline should be located as close to the shaft shoulder as possible. For applications where OHL exceeds catalogued values contact Application Engineering at 812-376-1100 or use the reducer selection tables to select the next largest size gearcase.

NOMENCLATURE

APG Reducers And Gearmotors

XXX - XXX - X X X X - X - XXX.XX - XXX

MOTOR HP-IF G CONSTRUCTION
MOTOR HP-IF M CONSTRUCTION
BLANK-IF R CONSTRUCTION OR IF NO
MOTOR ATTACHED

MOTOR FRAME-IF G CONSTRUCTION
MOTOR FRAME-IF M CONSTRUCTION
BLANK-IF R CONSTRUCTION

STAGES OF REDUCTION
S = SINGLE
D = DOUBLE
T = TRIPLE

GEARCASE CONSTRUCTION
G = INTEGRAL GEARMOTOR
M = C-FACE MOTORIZED
R = SEPARATE REDUCER

GEARCASE SIZE-1 THROUGH 8

FOOTMOUNT (A) OR FLANGE
MOUNT (F)

CLASS OF SERVICE
1, 2 OR 3-IF G CONSTRUCTION
BLANK-IF M CONSTRUCTION
BLANK-IF R CONSTRUCTION

RATIO-1.22 THROUGH 129.7

MOUNTING POSITION - SEE PAGE D1-77 FOR GEARMOTORS
D1-81 FOR REDUCERS

NOMENCLATURE EXAMPLES

15 - 215TY - D G 5 A - 2 - 11.4 - A1

MOTOR HP - 15 HP
MOTOR FRAME - 215 TY
DOUBLE REDUCTION
INTEGRAL GEARMOTOR CONSTRUCTION
APG SIZE 5
FOOT MOUNT
CLASS 2 SERVICE
11.4:1 NOMINAL RATIO
A1 MOUNTING POSITION

S R 3 A - 2.25 - C2

SINGLE REDUCTION
SEPARATE REDUCER CONSTRUCTION
APG SIZE 3
FOOT MOUNT
2.25:1 NOMINAL RATIO
C2 MOUNTING POSITION

184TC - T M 6 F - 86.5 - AF5

MOTOR FRAME - 184TC
TRIPLE REDUCTION
C-FACE REDUCER CONSTRUCTION
APG SIZE 6
FLANGE MOUNT
86.5:1 NOMINAL RATIO
AF5 MOUNTING POSITION

APG 1/3 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL (1)	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FB56P	1185	14	AP1311430
	1170	1.50	3	FB56P	1205	17	AP1311170
	950	1.84	3	FB56P	1235	21	AP1310950
	780	2.25	3	FB56P	1255	26	AP1310780
	640	2.76	3	FB56P	1235	32	AP1310640
	520	3.38	3	FB56P	1255	39	AP1310520
	420	4.13	3	FB56P	1280	49	AP1310420
	350	5.06	3	FB56P	1310	58	AP1310350
Double	280	6.20	3	FB56P	1400	71	AP1310280
	230	7.59	3	FB56P	1500	87	AP1310230
	190	9.30	3	FB56P	1580	105	AP1310190
	155	11.4	3	FB56P	1700	129	AP1310155
	125	14.0	3	FB56P	1815	160	AP1310125
	100	17.1	3	FB56P	1970	200	AP1310100
	84	20.9	3	FB56P	2100	238	AP1310084
	68	25.6	3	FB56P	2240	294	AP1310068
Triple	56	31.4	3	FB56P	2300	349	AP1310056
	45	38.4	3	FB56P	2300	434	AP1310045
	37	47.1	3	FB56P	2300	528	AP1310037
	30	57.7	3	FB56P	2300	651	AP1310030
	25	70.6	3	FB56P	2300	782	AP1310025
	20	86.5	3	FB56P	2300	977	AP1310020
	16.5	105.9	3	FB56P	2300	1184	AP1310016
	13.5	129.7	3	FB56P	2300	1448	AP1310013

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL (1)	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FB56P	1180	14	AP1321430
	1170	1.50	3	FB56P	1205	17	AP1321170
	950	1.84	3	FB56P	1235	21	AP1320950
	780	2.25	3	FB56P	1250	26	AP1320780
	640	2.76	3	FB56P	1235	32	AP1320640
	520	3.38	3	FB56P	1255	39	AP1320520
	420	4.13	3	FB56P	1280	49	AP1320420
	350	5.06	3	FB56P	1295	58	AP1320350
Double	280	6.20	3	FB56P	1395	71	AP1320280
	230	7.59	3	FB56P	1495	87	AP1320230
	190	9.30	3	FB56P	1580	105	AP1320190
	155	11.4	3	FB56P	1700	129	AP1320155
	125	14.0	3	FB56P	1820	160	AP1320125
	100	17.1	3	FB56P	1960	200	AP1320100
	84	20.9	3	FB56P	2080	238	AP1320084
	68	25.6	3	FB56P	2230	294	AP1320068
Triple	56	31.4	3	FB56P	2300	349	AP1320056
	45	38.4	3	FB56P	2300	434	AP1320045
	37	47.1	3	FB56P	2300	528	AP1320037
	30	57.7	3	FB56P	2300	651	AP1320030
	25	70.6	3	FB56P	2300	782	AP1320025
	20	86.5	3	FB56P	2300	977	AP1320020
	16.5	105.9	3	FB56P	2300	1184	AP1320016
	13.5	129.7	3	FB56P	2220	1448	AP1320013

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL (1)	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FB56P	1165	14	AP1331430
	1170	1.50	3	FB56P	1205	17	AP1331170
	950	1.84	3	FB56P	1230	21	AP1330950
	780	2.25	3	FB56P	1250	26	AP1330780
	640	2.76	3	FB56P	1235	32	AP1330640
	520	3.38	3	FB56P	1255	39	AP1330520
	420	4.13	3	FB56P	1280	49	AP1330420
	350	5.06	3	FB56P	1270	58	AP1330350
Double	280	6.20	3	FB56P	1395	71	AP1330280
	230	7.59	3	FB56P	1490	87	AP1330230
	190	9.30	3	FB56P	1580	105	AP1330190
	155	11.4	3	FB56P	1695	129	AP1330155
	125	14.0	3	FB56P	1820	160	AP1330125
	100	17.1	3	FB56P	1960	200	AP1330100
	84	20.9	3	FB56P	2080	238	AP1330084
	68	25.6	3	FB56P	2210	294	AP1330068
Triple	56	31.4	3	FB56P	2300	349	AP1330056
	45	38.4	3	FB56P	2300	434	AP1330045
	37	47.1	3	FB56P	2300	528	AP1330037
	30	57.7	3	FB56P	2300	651	AP1330030
	25	70.6	3	FB56P	2300	782	AP1330025
	20	86.5	3	FB56P	2140	977	AP1330020
	16.5	105.9	3	FB56P	1960	1184	AP1330016
	13.5	129.7	3	FB56P	1740	1448	AP1330013

NOTE:

All Motors Used On APG
Integral Gearmotors Are
Standard Efficient, TEFC
Continuous Duty, 40° C
Ambient, Design B, Class
F Insulation, 1.15 Service
Factor, 1750 RPM,
3-60-230/460 Volts

NOTE:

Integral Gearmotors Are
Not Available In Case
Sizes 1 & 2

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

NOTE: 3 ft. lb. brake available. Brake coils are Single phase, 60
Hz, 230/460 volts AC.

SELECTION

APG 1/2 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FB56P	1175	22	AP1211430
	1170	1.50	3	FB56P	1205	26	AP1211170
	950	1.84	3	FB56P	1235	32	AP1210950
	780	2.25	3	FB56P	1250	40	AP1210780
	640	2.76	3	FB56P	1235	48	AP1210640
	520	3.38	3	FB56P	1255	59	AP1210520
	420	4.13	3	FB56P	1280	74	AP1210420
	350	5.06	3	FB56P	1280	88	AP1210350
Double	280	6.20	3	FB56P	1395	108	AP1210280
	230	7.59	3	FB56P	1495	131	AP1210230
	190	9.30	3	FB56P	1580	159	AP1210190
	155	11.40	3	FB56P	1700	195	AP1210155
	125	14.00	3	FB56P	1820	242	AP1210125
	100	17.10	3	FB56P	1960	302	AP1210100
	84	20.90	3	FB56P	2080	360	AP1210084
	68	25.60	3	FB56P	2220	445	AP1210068
Triple	56	31.40	3	FB56P	2300	529	AP1210056
	45	38.40	3	FB56P	2300	658	AP1210045
	37	47.10	3	FB56P	2300	800	AP1210037
	30	57.70	3	FB56P	2300	987	AP1210030
	25	70.60	3	FB56P	2300	1184	AP1210025
	20	86.50	3	FB56P	2300	1481	AP1210020
	16.5	105.90	3	FB56P	2300	1795	AP1210016
	13.5	129.70	3	FB56P	2140	2193	AP1210013

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FB56P	1160	22	AP1221430
	1170	1.50	3	FB56P	1205	26	AP1221170
	950	1.84	3	FB56P	1230	32	AP1220950
	780	2.25	3	FB56P	1250	40	AP1220780
	640	2.76	3	FB56P	1235	48	AP1220640
	520	3.38	3	FB56P	1250	59	AP1220520
	420	4.13	3	FB56P	1275	74	AP1220420
	350	5.06	3	FB56P	1265	88	AP1220350
Double	280	6.20	3	FB56P	1395	108	AP1220280
	230	7.59	3	FB56P	1490	131	AP1220230
	190	9.30	3	FB56P	1580	159	AP1220190
	155	11.40	3	FB56P	1695	195	AP1220155
	125	14.00	3	FB56P	1820	242	AP1220125
	100	17.10	3	FB56P	1955	302	AP1220100
	84	20.90	3	FB56P	2070	360	AP1220084
	68	25.60	3	FB56P	2200	445	AP1220068
Triple	56	31.40	3	FB56P	2300	529	AP1220056
	45	38.40	3	FB56P	2300	658	AP1220045
	37	47.10	3	FB56P	2300	800	AP1220037
	30	57.70	3	FB56P	2300	987	AP1220030
	25	70.60	3	FB56P	2250	1184	AP1220020
	20	86.50	3	FB56P	2080	1481	AP1220020
	16.50	105.90	3	FB56P	1880	1795	AP1220016
	13.50	129.70	3	FB56P	1880	2193	AP1220013

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FB56P	1140	22	AP1231430
	1170	1.50	3	FB56P	1190	26	AP1231170
	950	1.84	3	FB56P	1230	32	AP1230950
	780	2.25	3	FB56P	1250	40	AP1230780
	640	2.76	3	FB56P	1230	48	AP1230640
	520	3.38	3	FB56P	1245	59	AP1230520
	420	4.13	3	FB56P	1275	74	AP1230420
	350	5.06	3	FB56P	1300	86	AP1230350
Double	280	6.20	3	FB56P	1395	108	AP1230280
	230	7.59	3	FB56P	1480	131	AP1230230
	190	9.30	3	FB56P	1570	159	AP1230190
	155	11.40	3	FB56P	1680	195	AP1230155
	125	14.00	3	FB56P	1800	242	AP1230125
	100	17.10	3	FB56P	1940	302	AP1230100
	84	20.90	3	FB56P	2040	360	AP1230084
	68	25.60	3	FB56P	2180	445	AP1230068
Triple	56	31.40	3	FB56P	2300	529	AP1230056
	45	38.40	3	FB56P	2300	529	AP1230056
	37	47.10	3	FB56P	2140	800	AP1230037
	30	57.70	3	FB56P	1990	987	AP1230030
	25	70.60	3	FB56P	1840	1184	AP1230025
	20	86.50	3	FB56P	1580	1481	AP1230020
	16.50	105.90	3	FB56P	2400	1795	AP1230016
	13.50	129.70	3	FB56P	2400	2193	AP1230013

NOTE:

All Motors Used On APG Integral Gearmotors Are Standard Efficient, TEFC Continuous Duty, 40° C Ambient, Design B, Class F Insulation, 1.15 Service Factor, 1750 RPM, 3-60-230/460 Volts

NOTE:

Integral Gearmotors Are Not Available In Case Sizes 1 & 2

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

NOTE: 3 ft. lb. brake available. Brake coils are Single phase, 60 Hz, 230/460 volts AC.

APG 3/4 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FB56P	1160	32	AP3411430
	1170	1.50	3	FB56P	1195	40	AP3411170
	950	1.84	3	FB56P	1230	49	AP3410950
	780	2.25	3	FB56P	1250	59	AP3410780
	640	2.76	3	FB56P	1235	72	AP3410640
	520	3.38	3	FB56P	1245	89	AP3410520
	420	4.13	3	FB56P	1275	110	AP3410420
	350	5.06	3	FB56P	1260	132	AP3410350
Double	280	6.20	3	FB56P	1395	162	AP3410280
	230	7.59	3	FB56P	1480	197	AP3410230
	190	9.30	3	FB56P	1580	239	AP3410190
	155	11.40	3	FB56P	1690	293	AP3410155
	125	14.00	3	FB56P	1810	363	AP3410125
	100	17.10	3	FB56P	1970	454	AP3410100
	84	20.90	3	FB56P	2060	540	AP3410084
	68	25.60	3	FB56P	2200	667	AP3410068
Triple	56	31.40	3	FB56P	2300	793	AP3410056
	45	38.40	3	FB56P	2300	987	AP3410045
	37	47.10	3	FB56P	2300	1200	AP3410037
	30	57.70	3	FB56P	2300	1481	AP3410030
	25	70.60	3	FB56P	2160	1777	AP3410025
	20	86.50	3	FB56P	2000	2221	AP3410020
	16.50	105.90	3	FB56P	1810	2692	AP3410016
	13.50	129.70	3	FB56P	1500	3290	AP3410013

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FB56P	1140	32	AP3421430
	1170	1.50	3	FB56P	1185	40	AP3421170
	950	1.84	3	FB56P	1225	49	AP3420950
	780	2.25	3	FB56P	1250	59	AP3420780
	640	2.76	3	FB56P	1230	72	AP3420640
	520	3.38	3	FB56P	1245	89	AP3420520
	420	4.13	3	FB56P	1275	110	AP3420420
	350	5.06	3	FB56P	1280	130	AP3420350
Double	280	6.20	3	FB56P	1380	162	AP3420280
	230	7.59	3	FB56P	1480	197	AP3420230
	190	9.30	3	FB56P	1570	239	AP3420190
	155	11.40	3	FB56P	1680	293	AP3420155
	125	14.00	3	FB56P	1800	363	AP3420125
	100	17.10	3	FB56P	1940	454	AP3420100
	84	20.90	3	FB56P	2040	540	AP3420084
	68	25.60	3	FB56P	2180	667	AP3420068
Triple	56	31.40	3	FB56P	2300	793	AP3420056
	45	38.40	3	FB56P	2200	987	AP3420045
	37	47.10	3	FB56P	2100	1200	AP3420037
	30	57.70	3	FB56P	1930	1481	AP3420030
	25	70.60	3	FB56P	1660	1777	AP3420025
	20	86.50	3	FB56P	1500	2221	AP3420020
	16.50	105.90	4	FB56P	2400	2692	AP3420016
	13.50	129.70	4	FB56P	2400	3290	AP3420013

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FB56P	1115	32	AP3431430
	1170	1.50	3	FB56P	1155	40	AP3431170
	950	1.84	3	FB56P	1190	49	AP3430950
	780	2.25	3	FB56P	1230	59	AP3430780
	640	2.76	3	FB56P	1205	72	AP3430640
	520	3.38	3	FB56P	1205	89	AP3430520
Double	420	4.13	3	FB56P	1220	108	AP3430420
	350	5.06	3	FB56P	1280	130	AP3430350
	280	6.20	3	FB56P	1380	162	AP3430280
	230	7.59	3	FB56P	1470	197	AP3430230
	190	9.30	3	FB56P	1560	239	AP3430190
	155	11.40	3	FB56P	1660	293	AP3430155
	125	14.00	3	FB56P	1780	363	AP3430125
	100	17.10	3	FB56P	1910	454	AP3430100
	84	20.90	3	FB56P	2010	540	AP3430084
Triple	68	25.60	3	FB56P	2170	667	AP3430068
	56	31.40	3	FB56P	2100	793	AP3430056
	45	38.40	3	FB56P	1960	987	AP3430045
	37	47.10	3	FB56P	1780	1200	AP3430037
	30	57.70	3	FB56P	1540	1481	AP3430030
	25	70.60	4	FB56P	2400	1777	AP3430025
	20	86.50	4	FB56P	2400	2221	AP3430020
	16.50	105.90	4	FB56P	2200	2692	AP3430016
	13.50	129.70	5	FB56P	3600	3290	AP3430013

NOTE:

All Motors Used On APG Integral Gearmotors Are Standard Efficient, TEFC Continuous Duty, 40° C Ambient, Design B, Class F Insulation, 1.15 Service Factor, 1750 RPM, 3-60-230/460 Volts

NOTE:

Integral Gearmotors Are Not Available In Case Sizes 1 & 2

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

NOTE: 3 ft. lb. brake available. Brake coils are Single phase, 60 Hz, 230/460 volts AC.

SELECTION

APG 1 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FB56P	1140	43	AP0111430
	1170	1.50	3	FB56P	1190	53	AP0111170
	950	1.84	3	FB56P	1230	65	AP0110950
	780	2.25	3	FB56P	1250	79	AP0110780
	640	2.76	3	FB56P	1230	96	AP0110640
	520	3.38	3	FB56P	1245	119	AP0110520
	420	4.13	3	FB56P	1275	147	AP0110420
	350	5.06	3	FB56P	1225	176	AP0110350
Double	280	6.20	3	FB56P	1395	216	AP0110280
	230	7.59	3	FB56P	1480	263	AP0110230
	190	9.30	3	FB56P	1540	318	AP0110190
	155	11.4	3	FB56P	1680	390	AP0110155
	125	14.0	3	FB56P	1800	484	AP0110125
	100	17.1	3	FB56P	1940	605	AP0110100
	84	20.9	3	FB56P	2040	720	AP0110084
	68	25.6	3	FB56P	2180	889	AP0110068
Triple	56	31.4	3	FB56P	2300	1058	AP0110056
	45	38.4	3	FB56P	2300	1316	AP0110045
	37	47.1	3	FB56P	2140	1601	AP0110037
	30	57.7	3	FB56P	1990	1974	AP0110030
	25	70.6	3	FB56P	1830	2369	AP0110025
	20	86.5	3	FB56P	1580	2961	AP0110020
	16.5	105.9	4	FB56P	2400	3589	AP0110016
	13.5	129.7	4	FB56P	2400	4387	AP0110013

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FB56P	1120	43	AP0121430
	1170	1.50	3	FB56P	1160	53	AP0121170
	950	1.84	3	FB56P	1200	65	AP0120950
	780	2.25	3	FB56P	1240	79	AP0120780
	640	2.76	3	FB56P	1215	96	AP0120640
	520	3.38	3	FB56P	1215	119	AP0120520
Double	420	4.13	3	FB56P	1220	144	AP0120420
	350	5.06	3	FB56P	1280	173	AP0120350
	280	6.20	3	FB56P	1380	216	AP0120280
	230	7.59	3	FB56P	1470	263	AP0120230
	190	9.30	3	FB56P	1560	318	AP0120190
	155	11.4	3	FB56P	1670	390	AP0120155
	125	14.0	3	FB56P	1780	484	AP0120125
	100	17.1	3	FB56P	1910	605	AP0120100
Triple	84	20.9	3	FB56P	2020	720	AP0120084
	68	25.6	3	FB56P	2150	889	AP0120068
	56	31.4	3	FB56P	2160	1058	AP0120056
	45	38.4	3	FB56P	2020	1316	AP0120045
	37	47.1	3	FB56P	1870	1601	AP0120037
	30	57.7	3	FB56P	1640	1974	AP0120030
	25	70.6	4	FB56P	2400	2369	AP0120025
	20	86.5	4	FB56P	2400	2961	AP0120020
	16.5	105.9	4	FB56P	2400	3589	AP0120016
	13.5	129.7	5	FB56P	3600	4387	AP0120013

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FB56P	1090	43	AP0131430
	1170	1.50	3	FB56P	1120	53	AP0131170
	950	1.84	3	FB56P	1155	65	AP0130950
	780	2.25	3	FB56P	1190	79	AP0130780
	640	2.76	3	FB56P	1155	96	AP0130640
	520	3.38	3	FB56P	1150	119	AP0130520
Double	420	4.13	3	FB56P	1220	144	AP0130420
	350	5.06	3	FB56P	1260	173	AP0130350
	280	6.20	3	FB56P	1370	216	AP0130280
	230	7.59	3	FB56P	1460	263	AP0130230
	190	9.30	3	FB56P	1550	318	AP0130190
	155	11.4	3	FB56P	1630	390	AP0130155
	125	14.0	3	FB56P	1760	484	AP0130125
	100	17.1	3	FB56P	1880	605	AP0130100
Triple	84	20.9	3	FB56P	1970	720	AP0130084
	68	25.6	3	FB56P	1900	889	AP0130068
	56	31.4	3	FB56P	1760	1058	AP0130056
	45	38.4	3	FB56P	1530	1316	AP0130045
	37	47.1	4	FB56P	2400	1601	AP0130037
	30	57.7	4	FB56P	2400	1974	AP0130030
	25	70.6	4	FB56P	2400	2369	AP0130025
	20	86.5	4	FB56P	2040	2961	AP0130020
	16.5	105.9	5	FB56P	3600	3589	AP0130016
	13.5	129.7	5	FB56P	3600	4387	AP0130013

NOTE:

All Motors Used On APG Integral Gearmotors Are Standard Efficient, TEFC Continuous Duty, 40° C Ambient, Design B, Class F Insulation, 1.15 Service Factor, 1750 RPM, 3-60-230/460 Volts

NOTE:

Integral Gearmotors Are Not Available In Case Sizes 1 & 2

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

NOTE: 3 ft. lb. brake available. Brake coils are Single phase, 60 Hz, 230/460 volts AC.

APG 1-1/2 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	3	FB143P	1115	65	AP3211430
	1170	1.50	3	FB143P	1155	79	AP3211170
	950	1.84	3	FB143P	1190	97	AP3210950
	780	2.25	3	FB143P	1230	119	AP3210780
	640	2.76	3	FB143P	1205	145	AP3210640
	520	3.38	3	FB143P	1200	178	AP3210520
Double	420	4.13	3	FB143P	1220	216	AP3210420
	350	5.06	3	FB143P	1280	259	AP3210350
	280	6.20	3	FB143P	1380	324	AP3210280
	230	7.59	3	FB143P	1470	394	AP3210230
	190	9.30	3	FB143P	1560	477	AP3210190
	155	11.4	3	FB143P	1660	586	AP3210155
	125	14.0	3	FB143P	1780	726	AP3210125
	100	17.1	3	FB143P	1910	907	AP3210100
	84	20.9	3	FB143P	2010	1080	AP3210084
	68	25.6	3	FB143P	2170	1334	AP3210068
Triple	56	31.4	3	FB143P	2100	1586	AP3210056
	45	38.4	3	FB143P	1960	1974	AP3210045
	37	47.1	3	FB143P	1780	2401	AP3210037
	30	57.7	3	FB143P	1540	2961	AP3210030
	25	70.6	4	FB143P	2400	3553	AP3210025
	20	86.5	4	FB143P	2400	4442	AP3210020
	16.5	105.9	4	FB143P	2200	5384	AP3210016
	13.5	129.7	5	FB143P	3600	6580	AP3210013

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	3	FB143P	1080	65	AP3221430
	1170	1.50	3	FB143P	1115	79	AP3221170
	950	1.84	3	FB143P	1175	97	AP3220950
	780	2.25	3	FB143P	1280	119	AP3220780
	640	2.76	3	FB143P	1145	145	AP3220640
	520	3.38	3	FB143P	1095	178	AP3220520
Double	420	4.13	3	FB143P	1220	216	AP3220420
	350	5.06	3	FB143P	1270	259	AP3220350
	280	6.20	3	FB143P	1370	324	AP3220280
	230	7.59	3	FB143P	1460	394	AP3220230
	190	9.30	3	FB143P	1540	477	AP3220190
	155	11.4	3	FB143P	1640	586	AP3220155
	125	14.0	3	FB143P	1750	726	AP3220125
	100	17.1	3	FB143P	1870	907	AP3220100
	84	20.9	3	FB143P	1960	1080	AP3220084
	68	25.6	3	FB143P	1810	1334	AP3220068
Triple	56	31.4	3	FB143P	1770	1586	AP3220056
	45	38.4	3	FB143P	1550	1974	AP3220045
	37	47.1	4	FB143P	2400	2401	AP3220037
	30	57.7	4	FB143P	2400	2961	AP3220030
	25	70.6	4	FB143P	2270	3553	AP3220025
	20	86.5	5	FB143P	3600	4442	AP3220020
	16.5	105.9	5	FB143P	3600	5384	AP3220016
	13.5	129.7	5	FB143P	3600	6580	AP3220013

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	3	FB143P	1025	65	AP3231430
	1170	1.50	3	FB143P	1055	79	AP3231170
	950	1.84	3	FB143P	1080	97	AP3230950
	780	2.25	3	FB143P	1095	119	AP3230780
	640	2.76	3	FB143P	1050	145	AP3230640
	520	3.38	3	FB143P	1025	178	AP3230520
Double	420	4.13	3	FB143P	1200	216	AP3230420
	350	5.06	3	FB143P	1260	259	AP3230350
	280	6.20	3	FB143P	1350	324	AP3230280
	230	7.59	3	FB143P	1430	394	AP3230230
	190	9.30	3	FB143P	1520	477	AP3230190
	155	11.4	3	FB143P	1600	586	AP3230155
	125	14.0	3	FB143P	1700	726	AP3230125
	100	17.1	3	FB143P	1840	907	AP3230100
	84	20.9	3	FB143P	1660	1080	AP3230084
	68	25.6	3	FB143P	1480	1334	AP3230068
Triple	56	31.4	4	FB143P	2400	1586	AP3230056
	45	38.4	4	FB143P	2400	1974	AP3230045
	37	47.1	4	FB143P	2400	2401	AP3230037
	30	57.7	5	FB143P	3600	2961	AP3230030
	25	70.6	5	FB143P	3600	3553	AP3230025
	20	86.5	5	FB143P	3600	4442	AP3230020
	16.5	105.9	5	FB143P	3600	5384	AP3230016
	13.5	129.7	6	FB143P	5500	6580	AP3230013

NOTE:

All Motors Used On APG Integral Gearmotors Are Standard Efficient, TEFC Continuous Duty, 40° C Ambient, Design B, Class F Insulation, 1.15 Service Factor, 1750 RPM, 3-60-230/460 Volts

NOTE:

Integral Gearmotors Are Not Available In Case Sizes 1 & 2

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

NOTE: 6 ft. lb. brake available. Brake coils are Single phase, 60 Hz, 230/460 volts AC.

APG 2 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	3	FC145P	1090	86	AP0211430
	1170	1.50	3	FC145P	1120	106	AP0211170
	950	1.84	3	FC145P	1165	130	AP0210950
	780	2.25	3	FC145P	1190	158	AP0210780
	640	2.76	3	FC145P	1155	193	AP0210640
	520	3.38	3	FC145P	1150	237	AP0210520
Double	420	4.13	3	FC145P	1220	288	AP0210420
	350	5.06	3	FC145P	1260	346	AP0210350
	280	6.20	3	FC145P	1370	432	AP0210280
	230	7.59	3	FC145P	1460	526	AP0210230
	190	9.30	3	FC145P	1550	637	AP0210190
	155	11.4	3	FC145P	1630	780	AP0210155
	125	14.0	3	FC145P	1760	968	AP0210125
	100	17.1	3	FC145P	1880	1210	AP0210100
	84	20.9	3	FC145P	1970	1440	AP0210084
	68	25.6	3	FC145P	1900	1779	AP0210068
Triple	56	31.4	3	FC145P	1760	2115	AP0210056
	45	38.4	3	FC145P	1530	2632	AP0210045
	37	47.1	4	FC145P	2400	3201	AP0210037
	30	57.7	4	FC145P	2400	3948	AP0210030
	25	70.6	4	FC145P	2400	4738	AP0210025
	20	86.5	4	FC145P	2040	5922	AP0210020
	16.5	105.9	5	FC145P	3600	7178	AP0210016
	13.5	129.7	5	FC145P	3600	8773	AP0210013

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	3	FC145P	1040	86	AP0221430
	1170	1.50	3	FC145P	1065	106	AP0221170
	950	1.84	3	FC145P	1095	130	AP0220950
	780	2.25	3	FC145P	1125	158	AP0220780
	640	2.76	3	FC145P	1075	193	AP0220640
	520	3.38	3	FC145P	1140	237	AP0220520
Double	420	4.13	3	FC145P	1200	288	AP0220420
	350	5.06	3	FC145P	1260	346	AP0220350
	280	6.20	3	FC145P	1360	432	AP0220280
	230	7.59	3	FC145P	1440	526	AP0220230
	190	9.30	3	FC145P	1520	637	AP0220190
	155	11.4	3	FC145P	1610	780	AP0220155
	125	14.0	3	FC145P	1710	968	AP0220125
	100	17.1	3	FC145P	1820	1210	AP0220100
	84	20.9	3	FC145P	1780	1440	AP0220084
	68	25.6	3	FC145P	1570	1779	AP0220068
Triple	56	31.4	4	FC145P	2400	2115	AP0220056
	45	38.4	4	FC145P	2400	2632	AP0220045
	37	47.1	4	FC145P	2400	3201	AP0220037
	30	57.7	4	FC145P	2040	3948	AP0220030
	25	70.6	5	FC145P	3600	4738	AP0220025
	20	86.5	5	FC145P	3600	5922	AP0220020
	16.5	105.9	5	FC145P	3600	7178	AP0220016
	13.5	129.7	6	FC145P	5500	8773	AP0220013

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	3	FC145P	965	86	AP0231430
	1170	1.50	3	FC145P	985	106	AP0231170
	950	1.84	3	FC145P	1005	130	AP0230950
	780	2.25	3	FC145P	1021	158	AP0230780
	640	2.76	3	FC145P	1018	193	AP0230640
	520	3.38	3	FC145P	1010	237	AP0230520
Double	420	4.13	3	FC145P	1200	288	AP0230420
	350	5.06	3	FC145P	1240	346	AP0230350
	280	6.20	3	FC145P	1330	432	AP0230280
	230	7.59	3	FC145P	1400	526	AP0230230
	190	9.30	3	FC145P	1480	637	AP0230190
	155	11.4	3	FC145P	1540	780	AP0230155
	125	14.0	3	FC145P	1640	968	AP0230125
	100	17.1	3	FC145P	1520	1210	AP0230100
	84	20.9	4	FC145P	2400	1440	AP0230084
	68	25.6	4	FC145P	2400	1779	AP0230068
Triple	56	31.4	4	FC145P	2400	2115	AP0230056
	45	38.4	5	FC145P	3600	2632	AP0230045
	37	47.1	5	FC145P	3600	3201	AP0230037
	30	57.7	5	FC145P	3600	3948	AP0230030
	25	70.6	5	FC145P	3600	4738	AP0230025
	20	86.5	5	FC145P	3600	5922	AP0230020
	16.5	105.9	6	FC145P	5500	7178	AP0230016
	13.5	129.7	6	FC145P	5500	8773	AP0230013

NOTE:

All Motors Used On APG Integral Gearmotors Are Standard Efficient, TEFC Continuous Duty, 40° C Ambient, Design B, Class F Insulation, 1.15 Service Factor, 1750 RPM, 3-60-230/460 Volts

NOTE:

Integral Gearmotors Are Not Available In Case Sizes 1 & 2

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

NOTE: 6 ft. lb. brake available. Brake coils are Single phase, 60 Hz, 230/460 volts AC.

APG 3 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	3	FE146P	1025	130	AP0311430
	1170	1.50	3	FE146P	1055	158	AP0311170
	950	1.84	3	FE146P	1080	195	AP0310950
	780	2.25	3	FE146P	1110	237	AP0310780
	640	2.76	3	FE146P	1050	289	AP0310640
	520	3.38	3	FE146P	1117	356	AP0310520
Double	420	4.13	3	FE146P	1200	432	AP0310420
	350	5.06	3	FE146P	1260	518	AP0310350
	280	6.20	3	FE146P	1350	648	AP0310280
	230	7.59	3	FE146P	1430	789	AP0310230
	190	9.30	3	FE146P	1520	955	AP0310190
	155	11.4	3	FE146P	1600	1171	AP0310155
	125	14.0	3	FE146P	1700	1452	AP0310125
	100	17.1	3	FE146P	1840	1814	AP0310100
	84	20.9	3	FE146P	1660	2160	AP0310084
Triple	68	25.6	3	FE146P	1480	2668	AP0310068
	56	31.4	4	FE146P	2400	3173	AP0310056
	45	38.4	4	FE146P	2400	3948	AP0310045
	37	47.1	4	FE146P	2180	4802	AP0310037
	30	57.7	5	FE146P	3600	5922	AP0310030
	25	70.6	5	FE146P	3600	7106	AP0310025
	20	86.5	5	FE146P	3600	8883	AP0310020
	16.5	105.9	5	FE146P	3600	10,767	AP0310016
	13.5	129.7	6	FE146P	5500	13,160	AP0310013

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	3	FE146P	950	130	AP0321430
	1170	1.50	3	FE146P	975	158	AP0321170
	950	1.84	3	FE146P	990	195	AP0320950
	780	2.25	3	FE146P	1005	237	AP0320780
	640	2.76	3	FE146P	1030	289	AP0320640
	520	3.38	3	FE146P	900	356	AP0320520
Double	420	4.13	3	FE146P	1180	432	AP0320420
	350	5.06	3	FE146P	1240	518	AP0320350
	280	6.20	3	FE146P	1330	648	AP0320280
	230	7.59	3	FE146P	1400	789	AP0320230
	190	9.30	3	FE146P	1470	955	AP0320190
	155	11.4	3	FE146P	1520	1171	AP0320155
	125	14.0	3	FE146P	1620	1452	AP0320125
	100	17.1	3	FE146P	1460	1814	AP0320100
	84	20.9	4	FE146P	2350	2160	AP0320084
Triple	68	25.6	4	FE146P	2400	2668	AP0320068
	56	31.4	4	FE146P	2400	3173	AP0320056
	45	38.4	5	FE146P	3600	3948	AP0320045
	37	47.1	5	FE146P	3600	4802	AP0320037
	30	57.7	5	FE146P	3600	5922	AP0320030
	25	70.6	5	FE146P	3600	7106	AP0320025
	20	86.5	6	FE146P	5500	8883	AP0320020
	16.5	105.9	6	FE146P	5550	10,767	AP0320016
	13.5	129.7	6	FE146P	5500	13,160	AP0320013

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	3	FE146P	855	130	AP0331430
	1170	1.50	3	FE146P	855	158	AP0331170
	950	1.84	3	FE146P	852	195	AP0330950
	780	2.25	3	FE146P	847	237	AP0330780
	640	2.76	4	FE146P	1090	289	AP0330640
	520	3.38	4	FE146P	1105	356	AP0330520
Double	420	4.13	3	FE146P	1160	432	AP0330420
	350	5.06	3	FE146P	1200	518	AP0330350
	280	6.20	3	FE146P	1280	648	AP0330280
	230	7.59	3	FE146P	1310	789	AP0330230
	190	9.30	3	FE146P	1370	955	AP0330190
	155	11.4	3	FE146P	1360	1171	AP0330155
	125	14.0	4	FE146P	2020	1452	AP0330125
	100	17.1	4	FE146P	1890	1814	AP0330100
	84	20.9	4	FE146P	2000	2160	AP0330084
Triple	68	25.6	5	FE146P	3550	2668	AP0330068
	56	31.4	5	FE146P	3600	3173	AP0330056
	45	38.4	5	FE146P	3600	3948	AP0330045
	37	47.1	5	FE146P	3600	4802	AP0330037
	30	57.7	6	FE146P	5500	5922	AP0330030
	25	70.6	6	FE146P	5500	7106	AP0330025
	20	86.5	6	FE146P	5500	8883	AP0330020
	16.5	105.9	6	FE146P	5500	10,767	AP0330016
	13.5	129.7	7	184TY*	8730	13,160	AP0330013

NOTE:

All Motors Used On APG Integral Gearmotors Are Standard Efficient, TEFC Continuous Duty, 40° C Ambient, Design B, Class F Insulation, 1.15 Service Factor, 1750 RPM, 3-60-230/460 Volts

NOTE:

Integral Gearmotors Are Not Available In Case Sizes 1 & 2

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

* Non-Stock special ordered motor

NOTE: 10 ft. lb. brake available. Brake coils are Single phase, 60 Hz, 230/460 volts AC.

SELECTION

APG 5 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FE147P	915	216	AP0511430
	1170	1.50	3	FE147P	925	264	AP0511170
	950	1.84	3	FE147P	935	325	AP0510950
	780	2.25	3	FE147P	935	396	AP0510780
	640	2.76	3	FE147P	920	482	AP0510640
	520	3.38	4	FE147P	1113	594	AP0510520
Double	420	4.13	3	FE147P	1180	720	AP0510420
	350	5.06	3	FE147P	1220	864	AP0510350
	280	6.20	3	FE147P	1310	1080	AP0510280
	230	7.59	3	FE147P	1360	1315	AP0510230
	190	9.30	3	FE147P	1440	1592	AP0510190
	155	11.4	3	FE147P	1480	1951	AP0510155
	125	14.0	3	FE147P	1470	2419	AP0510125
	100	17.1	4	FE147P	2050	3024	AP0510100
	84	20.9	4	FE147P	2230	3600	AP0510084
	68	25.6	5	FE147P	3600	4447	AP0510068
Triple	56	31.4	5	FE147P	3600	5288	AP0510056
	45	38.4	5	FE147P	3600	6580	AP0510045
	37	47.1	5	FE147P	3600	8003	AP0510037
	30	57.7	5	FE147P	3500	9,870	AP0510030
	25	70.6	6	FE147P	5500	11,844	AP0510025
	20	86.5	6	FE147P	5500	14,805	AP0510020
	16.5	105.9	6	FE147P	5500	17,945	AP0510016
	13.5	129.7	6	FE147P	5500	21,933	AP0510013

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FE147P	780	216	AP0521430
	1170	1.50	3	FE147P	795	264	AP0521170
	950	1.84	3	FE147P	770	325	AP0520950
	780	2.25	3	FE147P	755	396	AP0520780
	640	2.76	4	FE147P	1083	482	AP0520640
	520	3.38	4	FE147P	1097	594	AP0520520
Double	420	4.13	3	FE147P	1160	720	AP0520420
	350	5.06	3	FE147P	1180	864	AP0520350
	280	6.20	3	FE147P	1240	1080	AP0520280
	230	7.59	3	FE147P	1270	1315	AP0520230
	190	9.30	3	FE147P	1320	1592	AP0520190
	155	11.4	3	FE147P	1250	1951	AP0520155
	125	14.0	4	FE147P	1900	2419	AP0520125
	100	17.1	4	FE147P	1650	3024	AP0520100
	84	20.9	4	FE147P	1660	3600	AP0520084
	68	25.6	5	FE147P	3450	4447	AP0520068
Triple	56	31.4	5	FE147P	3600	5288	AP0520056
	45	38.4	5	FE147P	3600	6580	AP0520045
	37	47.1	6	FE147P	5500	8003	AP0520037
	30	57.7	6	FE147P	5500	9,870	AP0520030
	25	70.6	6	FE147P	5500	11,844	AP0520025
	20	86.5	6	FE147P	5500	14,805	AP0520020
	16.5	105.9	7	184TY*	8730	17,945	AP0520016
	13.5	129.7	7	184TY*	8730	21,933	AP0520013

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	FE147P	592	216	AP0531430
	1170	1.50	3	FE147P	558	264	AP0531170
	950	1.84	4	FE147P	1040	325	AP0530950
	780	2.25	4	FE147P	995	396	AP0530780
	640	2.76	4	FE147P	990	482	AP0530640
	520	3.38	5	FE147P	1200	594	AP0530520
Double	420	4.13	3	FE147P	1060	720	AP0530420
	350	5.06	3	FE147P	1080	864	AP0530350
	280	6.20	3	FE147P	1080	1080	AP0530280
	230	7.59	3	FE147P	1030	1315	AP0530230
	190	9.30	4	FE147P	1650	1592	AP0530190
	155	11.4	4	FE147P	1510	1951	AP0530155
	125	14.0	4	FE147P	1240	2419	AP0530125
	100	17.1	5	FE147P	2950	3024	AP0530100
	84	20.9	5	FE147P	3130	3600	AP0530084
	68	25.6	5	FE147P	3250	4447	AP0530068
Triple	56	31.4	6	FE147P	4750	5288	AP0530056
	45	38.4	6	FE147P	5000	6580	AP0530045
	37	47.1	6	FE147P	5200	8003	AP0530037
	30	57.7	6	FE147P	5300	9,870	AP0530030
	25	70.6	7	184TY*	8650	11,844	AP0530025
	20	86.5	7	184TY*	8730	14,805	AP0530020
	16.5	105.9	7	184TY*	8730	17,945	AP0530016
	13.5	129.7	7	184TY*	8730	21,933	AP0530013

NOTE:

All Motors Used On APG
Integral Gearmotors Are
Standard Efficient, TEFC
Continuous Duty, 40° C
Ambient, Design B, Class F
Insulation, 1.15 Service Factor,
1750 RPM,
3-60-230/460 Volts

NOTE:

Integral Gearmotors Are
Not Available In Case
Sizes 1 & 2

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

* Non-Stock special ordered motor

NOTE: 15 ft. lb. brake available. Brake coils are Single phase, 60 Hz,
230/460 volts AC.

APG 7-1/2 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	3	184TY	770	324	AP0811430
	1170	1.50	3	184TY	760	396	AP0811170
	950	1.84	3	184TY	725	487	AP0810950
	780	2.25	4	184TY	1067	594	AP0810780
	640	2.76	4	184TY	1080	724	AP0810640
	520	3.38	4	184TY	1093	890	AP0810520
Double	420	4.13	3	184TY	1120	1080	AP0810420
	350	5.06	3	184TY	1160	1296	AP0810350
	280	6.20	3	184TY	1210	1620	AP0810280
	230	7.59	3	184TY	1220	1972	AP0810230
	190	9.30	3	184TY	1250	2387	AP0810190
	155	11.4	4	184TY	1840	2926	AP0810155
	125	14.0	4	184TY	1820	3629	AP0810125
	100	17.1	4	184TY	1490	4536	AP0810100
	84	20.9	5	184TY	3030	5400	AP0810084
	68	25.6	5	184TY	3400	6671	AP0810068
Triple	56	31.4	5	184TY	3550	7931	AP0810056
	45	38.4	6	184TY	5250	9,870	AP0810045
	37	47.1	6	184TY	5450	12,004	AP0810037
	30	57.7	6	184TY	5500	14,805	AP0810030
	25	70.6	6	184TY	5500	17,766	AP0810025
	20	86.5	7	184TY	8730	22,208	AP0810020
	16.5	105.9	7	184TY	8730	26,918	AP0810016
	13.5	129.7	7	184TY	8730	32,900	AP0810013

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	3	184TY	555	324	AP0821430
	1170	1.50	3	184TY	550	396	AP0821170
	950	1.84	4	184TY	1005	487	AP0820950
	780	2.25	4	184TY	945	594	AP0820780
	640	2.76	4	184TY	832	724	AP0820640
	520	3.38	5	184TY	1200	890	AP0820520
Double	420	4.13	3	184TY	1060	1080	AP0820420
	350	5.06	3	184TY	1080	1296	AP0820350
	280	6.20	3	184TY	1000	1620	AP0820280
	230	7.59	4	184TY	1600	1972	AP0820230
	190	9.30	4	184TY	1600	2387	AP0820190
	155	11.4	4	184TY	1420	2926	AP0820155
	125	14.0	4	184TY	1020	3629	AP0820125
	100	17.1	5	184TY	2950	4536	AP0820100
	84	20.9	5	184TY	3100	5400	AP0820084
	68	25.6	5	184TY	3200	6671	AP0820068
Triple	56	31.4	6	184TY	5500	7931	AP0820056
	45	38.4	6	184TY	4950	9,870	AP0820045
	37	47.1	6	184TY	5100	12,004	AP0820037
	30	57.7	6	184TY	5200	14,805	AP0820030
	25	70.6	7	184TY	8550	17,766	AP0820025
	20	86.5	7	184TY	8730	22,208	AP0820020
	16.5	105.9	7	184TY	8730	26,918	AP0820016
	13.5	129.7	7	184TY	8730	32,900	AP0820013

Class III

NOTE:

All Motors Used On APG
Integral Gearmotors Are
Standard Efficient, TEFC
Continuous Duty, 40° C
Ambient, Design B, Class F
Insulation, 1.15 Service Factor,
1750 RPM,
3-60-230/460 Volts

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	4	184TY	785	324	AP0831430
	1170	1.50	4	184TY	710	396	AP0831170
	950	1.84	5	184TY	1135	487	AP0830950
	780	2.25	5	184TY	1153	594	AP0830780
	640	2.76	5	184TY	1170	724	AP0830640
	520	3.38	5	184TY	1190	890	AP0830520
Double	420	4.13	4	184TY	1200	1080	AP0830420
	350	5.06	4	184TY	1180	1296	AP0830350
	280	6.20	4	184TY	1270	1620	AP0830280
	230	7.59	4	184TY	1210	1972	AP0830230
	190	9.30	5	184TY	2400	2387	AP0830190
	155	11.4	5	184TY	2500	2926	AP0830155
	125	14.0	5	184TY	2550	3629	AP0830125
	100	17.1	5	184TY	2600	4536	AP0830100
	84	20.9	6	184TY	4000	5400	AP0830084
	68	25.6	6	184TY	4250	6671	AP0830068
Triple	56	31.4	6	184TY	4400	7931	AP0830056
	45	38.4	7	184TY	7000	9,870	AP0830045
	37	47.1	7	184TY	7400	12,004	AP0830037
	30	57.7	7	184TY	7650	14,805	AP0830030
	25	70.6	7	184TY	7900	17,766	AP0830025
	20	86.5	8	184TY	12,000	22,208	AP0830020
	16.5	105.9	8	184TY	12,000	26,918	AP0830016
	13.5	129.7	8	184TY	12,000	32,900	AP0830013

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

APG 10 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	3	210TY	600	432	AP1011430
	1170	1.50	3	210TY	560	528	AP1011170
	950	1.84	4	210TY	1040	650	AP1010950
	780	2.25	4	210TY	995	792	AP1010780
	640	2.76	4	210TY	900	965	AP1010640
	520	3.38	5	210TY	1200	1187	AP1010520
Double	420	4.13	3	210TY	1070	1440	AP1010420
	350	5.06	3	210TY	1100	1728	AP1010350
	280	6.20	3	210TY	1060	2160	AP1010280
	230	7.59	3	210TY	980	2630	AP1010230
	190	9.30	4	210TY	1650	3183	AP1010190
	155	11.4	4	210TY	1510	3902	AP1010155
	125	14.0	4	210TY	1240	4838	AP1010125
	100	17.1	5	210TY	2950	6048	AP1010100
	84	20.9	5	210TY	3120	7200	AP1010084
	68	25.6	5	210TY	3250	8894	AP1010068
Triple	56	31.4	6	210TY	4750	10,575	AP1010056
	45	38.4	6	210TY	5000	13,160	AP1010045
	37	47.1	6	210TY	5150	16,005	AP1010037
	30	57.7	6	210TY	5300	19,740	AP1010030
	25	70.6	7	210TY	8650	23,688	AP1010025
	20	86.5	7	210TY	8730	29,610	AP1010020
	16.5	105.9	7	210TY	8730	35,891	AP1010016
	13.5	129.7	7	210TY	8730	43,867	AP1010013

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	4	210TY	845	432	AP1021430
	1170	1.50	4	210TY	788	528	AP1021170
	950	1.84	4	210TY	700	650	AP1020950
	780	2.25	5	210TY	1155	792	AP1020780
	640	2.76	5	210TY	1173	965	AP1020640
	520	3.38	5	210TY	1190	1187	AP1020520
Double	420	4.13	4	210TY	1300	1440	AP1020420
	350	5.06	4	210TY	1300	1728	AP1020350
	280	6.20	4	210TY	1340	2160	AP1020280
	230	7.59	4	210TY	1340	2630	AP1020230
	190	9.30	4	210TY	1080	3183	AP1020190
	155	11.4	5	210TY	2550	3902	AP1020155
	125	14.0	5	210TY	2600	4838	AP1020125
	100	17.1	5	210TY	2700	6048	AP1020100
	84	20.9	5	210TY	2800	7200	AP1020084
	68	25.6	6	210TY	4300	8894	AP1020068
Triple	56	31.4	6	210TY	4450	10,575	AP1020056
	45	38.4	6	210TY	4550	13,160	AP1020045
	37	47.1	7	210TY	7500	16,005	AP1020037
	30	57.7	7	210TY	7800	19,740	AP1020030
	25	70.6	7	210TY	8000	23,688	AP1020025
	20	86.5	7	210TY	8250	29,610	AP1020020
	16.5	105.9	8	210TY	12,000	35,891	AP1020016
	13.5	129.7	8	210TY	12,000	43,867	AP1020013

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	4	210TY	440	432	AP1031430
	1170	1.50	4	210TY	450	528	AP1031170
	950	1.84	5	210TY	1125	650	AP1030950
	780	2.25	5	210TY	1145	792	AP1030780
	640	2.76	5	210TY	1160	965	AP1030640
	520	3.38	6	210TY	2250	1187	AP1030520
Double	420	4.13	4	210TY	1000	1440	AP1030420
	350	5.06	4	210TY	900	1728	AP1030350
	280	6.20	4	210TY	600	2160	AP1030280
	230	7.59	5	210TY	2170	2630	AP1030230
	190	9.30	5	210TY	2200	3183	AP1030190
	155	11.4	5	210TY	2170	3902	AP1030155
	125	14.0	5	210TY	2100	4638	AP1030125
	100	17.1	6	210TY	3700	6048	AP1030100
	84	20.9	6	210TY	3750	7200	AP1030084
	68	25.6	6	210TY	3900	8894	AP1030068
Triple	56	31.4	7	210TY	6400	10,575	AP1030056
	45	38.4	7	210TY	6700	13,160	AP1030045
	37	47.1	7	210TY	6900	16,005	AP1030037
	30	57.7	7	210TY	7000	19,740	AP1030030
	25	70.6	8	210TY	12,000	23,688	AP1030025
	20	86.5	8	210TY	12,000	29,610	AP1030020
	16.5	105.9	8	210TY	12,000	35,891	AP1030016
	13.5	129.7	8	210TY	12,000	43,867	AP1030013

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

NOTE:

All Motors Used On APG
Integral Gearmotors Are
Standard Efficient, TEFC
Continuous Duty, 40° C
Ambient, Design B, Class
F Insulation, 1.15 Service
Factor, 1750 RPM,
3-60-230/460 Volts

APG 15 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	4	215TY	785	648	AP1511430
	1170	1.50	4	215TY	710	792	AP1511170
	950	1.84	4	215TY	595	975	AP1510950
	780	2.25	5	215TY	1153	1187	AP1510780
	640	2.76	5	215TY	1170	1447	AP1510640
	520	3.38	5	215TY	1190	1781	AP1510520
Double	420	4.13	4	215TY	1250	2160	AP1510420
	350	5.06	4	215TY	1260	2592	AP1510350
	280	6.20	4	215TY	1280	3240	AP1510280
	230	7.59	4	215TY	1200	3944	AP1510230
	190	9.30	4	215TY	840	4775	AP1510190
	155	11.4	5	215TY	2500	5853	AP1510155
	125	14.0	5	215TY	2550	7258	AP1510125
	100	17.1	5	215TY	2600	9072	AP1510100
	84	20.9	6	215TY	4000	10,800	AP1510084
	68	25.6	6	215TY	4250	13,341	AP1510068
Triple	56	31.4	6	215TY	4400	15,863	AP1510056
	45	38.4	7	215TY	7050	19,740	AP1510045
	37	47.1	7	215TY	7400	24,008	AP1510037
	30	57.7	7	215TY	7700	29,610	AP1510030
	25	70.6	7	215TY	7900	35,532	AP1510025
	20	86.5	8	215TY	12,000	44,415	AP1510020
	16.5	105.9	8	215TY	12,000	53,836	AP1510016
	13.5	129.7	8	215TY	12,000	65,800	AP1510013

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	4	215TY	480	648	AP1521430
	1170	1.50	5	215TY	1102	792	AP1521170
	950	1.84	5	215TY	1125	975	AP1520950
	780	2.25	5	215TY	1143	1187	AP1520780
	640	2.76	5	215TY	1160	1447	AP1520640
	520	3.38	6	215TY	2245	1781	AP1520520
Double	420	4.13	4	215TY	950	2160	AP1520420
	350	5.06	5	215TY	2000	2592	AP1520350
	280	6.20	5	215TY	2050	3240	AP1520280
	230	7.59	5	215TY	2050	3944	AP1520230
	190	9.30	5	215TY	2050	4775	AP1520190
	155	11.4	5	215TY	2050	5853	AP1520155
	125	14.0	5	215TY	1900	7258	AP1520125
	100	17.1	6	215TY	3150	9072	AP1520100
	84	20.9	6	215TY	3700	10,800	AP1520084
	68	25.6	6	215TY	3750	13,341	AP1520068
Triple	56	31.4	7	215TY	6400	15,863	AP1520056
	45	38.4	7	215TY	6600	19,740	AP1520045
	37	47.1	7	215TY	6750	24,008	AP1520037
	30	57.7	7	215TY	6900	29,610	AP1520030
	25	70.6	8	215TY	12,000	35,532	AP1520025
	20	86.5	8	215TY	12,000	44,415	AP1520020
	16.5	105.9	8	215TY	12,000	53,836	AP1520016

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	5	215TY	1060	648	AP1531430
	1170	1.50	5	215TY	1071	792	AP1531170
	950	1.84	5	215TY	1105	975	AP1530950
	780	2.25	6	215TY	2155	1187	AP1530780
	640	2.76	6	215TY	2185	1447	AP1530640
	520	3.38	6	215TY	2213	1781	AP1530520
Double	420	4.13	5	215TY	1800	2160	AP1530420
	350	5.06	5	215TY	1850	2592	AP1530350
	280	6.20	5	215TY	1750	3240	AP1530280
	230	7.59	5	215TY	1650	3944	AP1530230
	190	9.30	5	215TY	1300	4775	AP1530190
	155	11.4	6	215TY	3050	5853	AP1530155
	125	14.0	6	215TY	3150	7258	AP1530125
	100	17.1	6	215TY	3200	9072	AP1530100
	84	20.9	7	215TY	5450	10,800	AP1530084
	68	25.6	7	215TY	5650	13,341	AP1530068
Triple	56	31.4	7	215TY	5750	15,863	AP1530056
	45	38.4	8	215TY	12,000	19,740	AP1530045
	37	47.1	8	215TY	12,000	24,008	AP1530037
	30	57.7	8	215TY	12,000	29,610	AP1530030
	25	70.6	8	215TY	12,000	35,532	AP1530025
	20	86.5	8	215TY	12,000	44,415	AP1530020

NOTE:

All Motors Used On APG
Integral Gearmotors Are
Standard Efficient, TEFC
Continuous Duty, 40° C
Ambient, Design B, Class
F Insulation, 1.15 Service
Factor, 1750 RPM,
3-60-230/460 Volts

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

APG 20 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	4	256TY	441	863	AP2011430
	1170	1.50	4	256TY	450	1055	AP2011170
	950	1.84	5	256TY	1110	1300	AP2010950
	780	2.25	5	256TY	1145	1583	AP2010780
	640	2.76	5	256TY	1160	1929	AP2010640
	520	3.38	6	256TY	2250	2375	AP2010520
Double	420	4.13	4	256TY	1000	2880	AP2010420
	350	5.06	4	256TY	900	3456	AP2010350
	280	6.20	4	256TY	640	4320	AP2010280
	230	7.59	5	256TY	2200	5259	AP2010230
	190	9.30	5	256TY	2250	6366	AP2010190
	155	11.4	5	256TY	2200	7804	AP2010155
	125	14.0	5	256TY	2050	9,677	AP2010125
	100	17.1	6	256TY	3700	12,096	AP2010100
	84	20.9	6	256TY	3750	14,400	AP2010084
	68	25.6	6	256TY	3650	17,788	AP2010068
Triple	56	31.4	7	256TY	6400	21,150	AP2010056
	45	38.4	7	256TY	6700	26,320	AP2010045
	37	47.1	7	256TY	6900	32,011	AP2010037
	30	57.7	7	256TY	7000	39,480	AP2010030
	25	70.6	8	256TY	12,000	47,376	AP2010025
	20	86.5	8	256TY	12,000	59,220	AP2010020
	16.5	105.9	8	256TY	12,000	71,782	AP2010016
	13.5	129.7	8	256TY	12,000	87,733	AP2010013

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	5	256TY	1066	863	AP2021430
	1170	1.50	5	256TY	1079	1055	AP2021170
	950	1.84	5	256TY	1110	1300	AP2020950
	780	2.25	6	256TY	2160	1583	AP2020780
	640	2.76	6	256TY	2190	1929	AP2020640
	520	3.38	6	256TY	2220	2375	AP2020520
Double	420	4.13	5	256TY	1850	2880	AP2020420
	350	5.06	5	256TY	1890	3456	AP2020350
	280	6.20	5	256TY	1800	4320	AP2020280
	230	7.59	5	256TY	1770	5259	AP2020230
	190	9.30	5	256TY	1500	6366	AP2020190
	155	11.4	6	256TY	3100	7804	AP2020155
	125	14.0	6	256TY	3200	9,677	AP2020125
	100	17.1	6	256TY	3300	12,096	AP2020100
	84	20.9	7	256TY	5550	14,400	AP2020084
	68	25.6	7	256TY	5750	17,788	AP2020068
Triple	56	31.4	7	256TY	5900	21,150	AP2020056
	45	38.4	8	256TY	12,000	26,320	AP2020045
	37	47.1	8	256TY	12,000	32,011	AP2020037
	30	57.7	8	256TY	12,000	39,480	AP2020030
	25	70.6	8	256TY	12,000	47,376	AP2020025
	20	86.5	8	256TY	12,000	59,220	AP2020020

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	5	256TY	1015	863	AP2031430
	1170	1.50	6	256TY	2070	1055	AP2031170
	950	1.84	6	256TY	2103	1300	AP2030950
	780	2.25	6	256TY	2131	1583	AP2030780
	640	2.76	7	256TY	3451	1929	AP2030640
	520	3.38	7	256TY	3500	2375	AP2030520
Double	420	4.13	5	256TY	1720	2880	AP2030420
	350	5.06	6	256TY	2300	3456	AP2030350
	280	6.20	6	256TY	2950	4320	AP2030280
	230	7.59	6	256TY	2700	5259	AP2030230
	190	9.30	6	256TY	2750	6366	AP2030190
	155	11.4	6	256TY	2800	7804	AP2030155
	125	14.0	7	256TY	4750	9,677	AP2030125
	100	17.1	7	256TY	4950	12,096	AP2030100
	84	20.9	7	256TY	5050	14,400	AP2030084
	68	25.6	7	256TY	5100	17,788	AP2030068
Triple	56	31.4	8	256TY	11,500	21,150	AP2030056
	45	38.4	8	256TY	11,500	26,320	AP2030045
	37	47.1	8	256TY	11,200	32,011	AP2030037
	30	57.7	8	256TY	10,500	39,480	AP2030030

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

NOTE:

All Motors Used On APG Integral Gearmotors Are Standard Efficient, TEFC Continuous Duty, 40° C Ambient, Design B, Class F Insulation, 1.15 Service Factor, 1750 RPM, 3-60-230/460 Volts

APG 25 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	5	286TY	1075	1079	AP2511430
	1170	1.50	5	286TY	1090	1319	AP2511170
	950	1.84	5	286TY	1115	1625	AP2510950
	780	2.25	5	286TY	1135	1979	AP2510780
	640	2.76	6	286TY	2200	2412	AP2510640
	520	3.38	6	286TY	2230	2968	AP2510520
Double	420	4.13	5	286TY	1875	3600	AP2510420
	350	5.06	5	286TY	1900	4320	AP2510350
	280	6.20	5	286TY	1950	5400	AP2510280
	230	7.59	5	286TY	1950	6574	AP2510230
	190	9.30	5	286TY	1800	7958	AP2510190
	155	11.4	5	286TY	1600	9,755	AP2510155
	125	14.0	6	286TY	3300	12,096	AP2510125
	100	17.1	6	286TY	3450	15,120	AP2510100
	84	20.9	6	286TY	3500	18,000	AP2510084
	68	25.6	7	286TY	5900	22,235	AP2510068
Triple	56	31.4	7	286TY	6100	26,438	AP2510056
	45	38.4	7	286TY	6300	32,900	AP2510045
	37	47.1	8	286TY	12,000	40,014	AP2510037
	30	57.7	8	286TY	12,000	49,350	AP2510030
	25	70.6	8	286TY	12,000	59,220	AP2510025
	20	86.5	8	286TY	12,000	74,025	AP2510020

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	5	286TY	1040	1079	AP2521430
	1170	1.50	5	286TY	1048	1319	AP2521170
	950	1.84	6	286TY	2114	1625	AP2520950
	780	2.25	6	286TY	2143	1979	AP2520780
	640	2.76	6	286TY	2170	2412	AP2520640
	520	3.38	7	286TY	3518	2968	AP2520520
Double	420	4.13	5	286TY	1750	3600	AP2520420
	350	5.06	5	286TY	1900	4320	AP2520350
	280	6.20	5	286TY	1450	5400	AP2520280
	230	7.59	5	286TY	1200	6574	AP2520230
	190	9.30	6	286TY	2850	7958	AP2520190
	155	11.4	6	286TY	2900	9,755	AP2520155
	125	14.0	6	286TY	2950	12,096	AP2520125
	100	17.1	7	286TY	5100	15,120	AP2520100
	84	20.9	7	286TY	5250	18,000	AP2520084
	68	25.6	7	286TY	5350	22,235	AP2520068
Triple	56	31.4	8	286TY	12,000	26,438	AP2520056
	45	38.4	8	286TY	12,000	32,900	AP2520045
	37	47.1	8	286TY	12,000	40,014	AP2520037
	30	57.7	8	286TY	11,750	49,350	AP2520030
	25	70.6	8	286TY	11,100	59,220	AP2520025

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	6	286TY	2022	1079	AP2531430
	1170	1.50	6	286TY	2052	1319	AP2531170
	950	1.84	6	286TY	2080	1625	AP2530950
	780	2.25	7	286TY	3365	1979	AP2530780
	640	2.76	7	286TY	3420	2412	AP2530640
	520	3.38	7	286TY	3465	2968	AP2530520
Double	420	4.13	6	286TY	2300	3600	AP2530420
	350	5.06	6	286TY	2350	4320	AP2530350
	280	6.20	6	286TY	2450	5400	AP2530280
	230	7.59	6	286TY	2500	6574	AP2530230
	190	9.30	6	286TY	2600	7958	AP2530190
	155	11.4	7	286TY	4350	9,755	AP2530155
	125	14.0	7	286TY	4450	12,096	AP2530125
	100	17.1	7	286TY	4550	15,120	AP2530100
	84	20.9	7	286TY	4600	18,000	AP2530084
	68	25.6	8	286TY	10,750	22,235	AP2530068
Triple	56	31.4	8	286TY	10,500	26,438	AP2530056
	45	38.4	8	286TY	10,000	32,900	AP2530045
	37	47.1	8	286TY	9250	40,014	AP2530037

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

NOTE:

All Motors Used On APG
Integral Gearmotors Are
Standard Efficient, TEFC
Continuous Duty, 40° C
Ambient, Design B, Class
F Insulation, 1.15 Service
Factor, 1750 RPM,
3-60-230/460 Volts

APG 30 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	5	286TY	1060	1295	AP3011430
	1170	1.50	5	286TY	1070	1583	AP3011170
	950	1.84	5	286TY	1103	1950	AP3010950
	780	2.25	6	286TY	2155	2375	AP3010780
	640	2.76	6	286TY	2185	2894	AP3010640
	520	3.38	6	286TY	2213	3562	AP3010520
Double	420	4.13	5	286TY	1840	4320	AP3010420
	350	5.06	5	286TY	1900	5184	AP3010350
	280	6.20	5	286TY	1750	6480	AP3010280
	230	7.59	5	286TY	1650	7889	AP3010230
	190	9.30	5	286TY	1300	9549	AP3010190
	155	11.4	6	286TY	3050	11,706	AP3010155
	125	14.0	6	286TY	3150	14,515	AP3010125
	100	17.1	6	286TY	3200	18,144	AP3010100
	84	20.9	7	286TY	5500	21,600	AP3010084
Triple	68	25.6	7	286TY	5650	26,682	AP3010068
	56	31.4	7	286TY	5800	31,725	AP3010056
	45	38.4	8	286TY	12,000	39,480	AP3010045
	37	47.1	8	286TY	12,000	48,016	AP3010037
	30	57.7	8	286TY	12,000	59,220	AP3010030
Triple	25	70.6	8	286TY	12,000	71,064	AP3010025

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	6	286TY	2037	1295	AP3021430
	1170	1.50	6	286TY	2067	1583	AP3021170
	950	1.84	6	286TY	2098	1950	AP3020950
	780	2.25	6	286TY	2156	2375	AP3020780
	640	2.76	7	286TY	3445	2894	AP3020640
	520	3.38	7	286TY	3492	3562	AP3020520
Double	420	4.13	6	286TY	2380	4320	AP3020420
	350	5.06	6	286TY	2450	5184	AP3020350
	280	6.20	6	286TY	2600	6480	AP3020280
	230	7.59	6	286TY	2650	7889	AP3020230
	190	9.30	6	286TY	2700	9549	AP3020190
	155	11.4	6	286TY	2750	11,706	AP3020155
	125	14.0	7	286TY	4450	14,515	AP3020125
	100	17.1	7	286TY	4850	18,144	AP3020100
	84	20.9	7	286TY	4900	21,600	AP3020084
Triple	68	25.6	7	286TY	4950	26,682	AP3020068
	56	31.4	8	286TY	11,300	31,725	AP3020056
	45	38.4	8	286TY	11,200	39,480	AP3020045
	37	47.1	8	286TY	10,800	48,016	AP3020037
	30	57.7	8	286TY	10,000	59,220	AP3020030

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	6	286TY	1920	1295	AP3031430
	1170	1.50	6	286TY	1954	1583	AP3031170
	950	1.84	7	286TY	3199	1950	AP3030950
	780	2.25	7	286TY	3258	2375	AP3030780
	640	2.76	7	286TY	3298	2894	AP3030640
	520	3.38	7	286TY	3318	3562	AP3030520
Double	420	4.13	6	286TY	2170	4320	AP3030420
	350	5.06	6	286TY	2200	5184	AP3030350
	280	6.20	6	286TY	2300	6480	AP3030280
	230	7.59	6	286TY	2350	7889	AP3030230
	190	9.30	7	286TY	3950	9549	AP3030190
	155	11.4	7	286TY	4100	11,706	AP3030155
	125	14.0	7	286TY	4200	14,515	AP3030125
	100	17.1	7	286TY	4200	18,144	AP3030100
	84	20.9	8	286TY	10,000	21,600	AP3030084
TPL	56	31.4	8	286TY	9300	31,725	AP3030056
	45	38.4	8	286TY	8300	39,480	AP3030045

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

NOTE:

All Motors Used On APG Integral Gearmotors Are Standard Efficient, TEFC Continuous Duty, 40° C Ambient, Design B, Class F Insulation, 1.15 Service Factor, 1750 RPM, 3-60-230/460 Volts

APG 40 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	6	326TY	2040	1727	AP4011430
	1170	1.50	6	326TY	2070	2111	AP4011170
	950	1.84	6	326TY	2103	2600	AP4010950
	780	2.25	6	326TY	2131	3166	AP4010780
	640	2.76	7	326TY	3452	3859	AP4010640
	520	3.38	7	326TY	3500	4749	AP4010520
Double	420	4.13	6	326TY	2400	5760	AP4010420
	350	5.06	6	326TY	2480	6912	AP4010350
	280	6.20	6	326TY	2600	8640	AP4010280
	230	7.59	6	326TY	2700	10,518	AP4010230
	190	9.30	6	326TY	2750	12,733	AP4010190
	155	11.4	6	326TY	2800	15,608	AP4010155
	125	14.0	7	326TY	4750	19,354	AP4010125
	100	17.1	7	326TY	4950	24,192	AP4010100
	84	20.9	7	326TY	5050	28,800	AP4010084
Triple	68	25.6	7	326TY	5100	35,576	AP4010068
	56	31.4	8	326TY	11,900	42,300	AP4010056
	45	38.4	8	326TY	12,000	52,640	AP4010045
	37	47.1	8	326TY	12,000	64,022	AP4010037
	30	57.7	8	326TY	12,000	78,960	AP4010030

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	6	326TY	1960	1727	AP4021430
	1170	1.50	6	326TY	1997	2111	AP4021170
	950	1.84	7	326TY	3239	2600	AP4020950
	780	2.25	7	326TY	3301	3166	AP4020780
	640	2.76	7	326TY	3347	3859	AP4020640
	520	3.38	7	326TY	3378	4749	AP4020520
Double	420	4.13	6	326TY	2250	5760	AP4020420
	350	5.06	6	326TY	2270	6912	AP4020350
	280	6.20	6	326TY	2350	8640	AP4020280
	230	7.59	6	326TY	2400	10,518	AP4020230
	190	9.30	7	326TY	4050	12,733	AP4020190
	155	11.4	7	326TY	4200	15,608	AP4020155
	125	14.0	7	326TY	4300	19,354	AP4020125
	100	17.1	7	326TY	4350	24,192	AP4020100
	84	20.9	7	326TY	4300	28,800	AP4020084
TPL	68	25.6	8	326TY	10,300	35,576	AP4020068
	56	31.4	8	326TY	9800	42,300	AP4020056
	45	38.4	8	326TY	9000	52,640	AP4020045

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	7	326TY	2873	1727	AP4031430
	1170	1.50	7	326TY	2935	2111	AP4031170
	950	1.84	7	326TY	2993	2600	AP4030950
	780	2.25	7	326TY	3042	3166	AP4030780
	640	2.76	7	326TY	3050	3859	AP4030640
	520	3.38	8	326TY	4381	4749	AP4030520
Double	420	4.13	7	326TY	3160	5760	AP4030420
	350	5.06	7	326TY	3300	6912	AP4030350
	280	6.20	7	326TY	3500	8640	AP4030280
	230	7.59	7	326TY	3550	10,518	AP4030230
	190	9.30	7	326TY	3550	12,733	AP4030190
	155	11.4	7	326TY	3600	15,608	AP4030155
	125	14.0	7	326TY	3600	19,354	AP4030125
	100	17.1	8	326TY	9000	24,192	AP4030100
	84	20.9	8	326TY	8750	28,800	AP4030084

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

NOTE:

All Motors Used On APG
Integral Gearmotors Are
Standard Efficient, TEFC
Continuous Duty, 40° C
Ambient, Design B, Class
F Insulation, 1.15 Service
Factor, 1750 RPM,
3-60-230/460 Volts

APG 50 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1170	1.22	7	326TY	3220	2638	AP5011170
	950	1.50	7	326TY	3300	3249	AP5010950
	780	1.84	7	326TY	3365	3958	AP5010780
	640	2.25	7	326TY	3421	4823	AP5010640
	520	2.76	7	326TY	3465	5937	AP5010520
	420	3.38	7	326TY	3550	7350	AP5010420
Double	350	4.13	7	326TY	3650	8640	AP5010350
	280	5.06	7	326TY	3825	10,800	AP5010280
	230	6.20	7	326TY	4050	13,148	AP5010230
	190	7.59	7	326TY	4200	15,916	AP5010190
	155	9.30	7	326TY	4300	19,510	AP5010155
	125	11.4	7	326TY	4500	24,192	AP5010125
	100	14.0	7	326TY	4550	30,240	AP5010100
	84	20.9	7	326TY	4600	36,000	AP5010084
	68	25.6	8	326TY	11,750	44,471	AP5010068
TPL	56	31.4	8	326TY	11,800	52,875	AP5010056
	45	38.4	8	326TY	12,000	65,800	AP5010045

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1170	1.22	7	326TY	3035	2638	AP5021170
	950	1.50	7	326TY	3097	3249	AP5020950
	780	1.84	7	326TY	2150	3958	AP5020780
	640	2.25	7	326TY	3173	4823	AP5020640
	520	2.76	8	326TY	4407	5937	AP5020520
	420	3.38	7	326TY	3350	7200	AP5020420
Double	350	4.13	7	326TY	3500	8640	AP5020350
	280	5.06	7	326TY	3650	10,800	AP5020280
	230	6.20	7	326TY	3700	13,148	AP5020230
	190	7.59	7	326TY	3750	15,916	AP5020190
	155	9.30	7	326TY	3850	19,510	AP5020155
	125	11.4	7	326TY	3900	24,192	AP5020125
	100	14.0	8	326TY	9650	30,240	AP5020100
	84	20.9	8	326TY	9500	36,000	AP5020084
	68	25.6	8	326TY	8900	44,471	AP5020068

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1430	1.22	7	326TY	2652	2159	AP5031430
	1170	1.50	7	326TY	2722	2638	AP5031170
	950	1.84	7	326TY	2825	3249	AP5030950
	780	2.25	8	326TY	4229	3958	AP5030780
	640	2.76	8	326TY	4282	4823	AP5030640
	520	3.38	8	326TY	4290	5937	AP5030520
Double	420	4.13	7	326TY	3050	7200	AP5030420
	350	5.06	7	326TY	3100	8,640	AP5030350
	280	6.20	7	326TY	3450	10,800	AP5030280
	230	7.59	7	326TY	3200	13,148	AP5030230
	190	9.30	7	326TY	3100	15,916	AP5030190
	155	11.4	8	326TY	8600	19,510	AP5030155
	125	14.0	8	326TY	8300	24,192	AP5030125
	100	17.1	8	326TY	7750	30,240	AP5030100
	84	20.9	8	326TY	7200	36,000	AP5030084

NOTE:

All Motors Used On APG Integral Gearmotors Are Standard Efficient, TEFC Continuous Duty, 40° C Ambient, Design B, Class F Insulation, 1.15 Service Factor, 1750 RPM, 3-60-230/460 Volts

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

APG 60 HP Gearmotors

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	7	365TY	3070	2590	AP6011430
	1170	1.50	7	365TY	3150	3166	AP6011170
	950	1.84	7	365TY	3199	3899	AP6010950
	780	2.25	7	365TY	3258	4749	AP6010780
	640	2.76	7	365TY	3298	5788	AP6010640
	520	3.38	7	365TY	3318	7124	AP6010520
Double	420	4.13	7	365TY	3450	8640	AP6010420
	350	5.06	7	365TY	3600	10,368	AP6010350
	280	6.20	7	365TY	3750	12,960	AP6010280
	230	7.59	7	365TY	3900	15,777	AP6010230
	190	9.30	7	365TY	4000	19,099	AP6010190
	155	11.4	7	365TY	4100	23,412	AP6010155
	125	14.0	7	365TY	4200	29,030	AP6010125
	100	17.1	7	365TY	4200	36,288	AP6010100
	84	20.9	8	365TY	10,000	43,200	AP6010084
	68	25.6	8	365TY	10,000	53,365	AP6010068

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	7	365TY	2830	2590	AP6021430
	1170	1.50	7	365TY	2895	3166	AP6021170
	950	1.84	7	365TY	2950	3899	AP6020950
	780	2.25	7	365TY	2998	4749	AP6020780
	640	2.76	8	365TY	4314	5788	AP6020640
	520	3.38	8	365TY	4370	7124	AP6020520
Double	420	4.13	7	365TY	3150	8640	AP6020420
	350	5.06	7	365TY	3290	10,368	AP6020350
	280	6.20	7	365TY	3400	12,960	AP6020280
	230	7.59	7	365TY	3500	15,777	AP6020230
	190	9.30	7	365TY	3450	19,099	AP6020190
	155	11.4	7	365TY	3450	23,412	AP6020155
	125	14.0	8	365TY	9250	29,030	AP6020125
	100	17.1	8	365TY	8800	36,288	AP6020100
	84	20.9	8	365TY	8500	43,200	AP6020084
	68	25.6	8	365TY	7500	53,365	AP6020068

NOTE:

All Motors Used On APG
Integral Gearmotors Are
Standard Efficient, TEFC
Continuous Duty, 40° C
Ambient, Design B, Class
F Insulation, 1.15 Service
Factor, 1750 RPM,
3-60-230/460 Volts

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in.-lb.)	Model Number
Single	1430	1.22	7	365TY	2405	2590	AP6031430
	1170	1.50	7	365TY	2493	3166	AP6031170
	950	1.84	8	365TY	4024	3899	AP6030950
	780	2.25	8	365TY	4031	4749	AP6030780
	640	2.76	8	365TY	3980	5788	AP6030640
	520	3.38	8	365TY	3962	7124	AP6030520
Double	420	4.13	7	365TY	2850	8640	AP6030420
	350	5.06	7	365TY	2870	10,368	AP6030350
	280	6.20	7	365TY	2950	12,960	AP6030280
	230	7.59	7	365TY	2850	15,777	AP6030230
	190	9.30	8	365TY	8300	19,099	AP6030190
	155	11.4	8	365TY	7900	23,412	AP6030155
	125	14.0	8	365TY	7250	29,030	AP6030125
	100	17.1	8	365TY	6400	36,288	AP6030100

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

SELECTION

APG 75 HP Gearmotors*

Class I (See selection procedure, page D2-4)

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1170	1.50	7	365TY	2985	3958	AP7511170
	950	1.84	7	365TY	3045	4874	AP7510950
	780	2.25	7	365TY	3095	5937	AP7510780
	640	2.76	7	365TY	3111	7235	AP7510640
	520	3.38	8	365TY	4394	8905	AP7510520
	420	4.13	8	365TY	4800	11,025	AP7510420
	350	5.06	8	365TY	4350	13,235	AP7510350
Double	230	7.59	7	365TY	3650	19,722	AP7510230
	190	9.30	7	365TY	3700	23,874	AP7510190
	155	11.4	7	365TY	3700	29,265	AP7510155
	125	14.0	7	365TY	3750	36,288	AP7510125
	100	17.1	8	365TY	9300	45,360	AP7510100
	84	20.9	8	365TY	9100	54,000	AP7510084
	68	25.6	8	365TY	8500	66,706	AP7510068

Class II

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1170	1.50	7	365TY	2667	3958	AP7521170
	950	1.84	7	365TY	2720	4874	AP7520950
	780	2.25	8	365TY	4220	5937	AP7520780
	640	2.76	8	365TY	4210	7235	AP7520640
	520	3.38	8	365TY	4210	8905	AP7520520
	420	4.13	8	365TY	4300	11,025	AP7520420
	230	7.59	7	365TY	3100	19,722	AP7520230
Double	190	9.30	7	365TY	3000	23,874	AP7520190
	155	11.4	8	365TY	8450	29,265	AP7520155
	125	14.0	8	365TY	8300	36,288	AP7520125
	100	17.1	8	365TY	7400	45,360	AP7520100
	84	20.9	8	365TY	6800	54,000	AP7520084
	68	25.6	8	365TY	6800	54,000	AP7520084

Class III

	Output RPM	Ratio	Case Size	Motor Frame	Output OHL ⁽¹⁾	Output Torque (in-lb.)	Model Number
Single	1170	1.50	8	365TY	3635	3958	AP7531170
	950	1.84	8	365TY	3606	4874	AP7530950
	780	2.25	8	365TY	3750	5937	AP7530780
	640	2.76	8	365TY	4150	7235	AP7530640
Double	230	7.59	8	365TY	7700	19,722	AP7530230
	190	9.30	8	365TY	7400	23,874	AP7530190
	155	11.4	8	365TY	6570	29,265	AP7530155
	125	14.0	8	365TY	6000	36,288	AP7530125

NOTE:

All Motors Used On APG Integral Gearmotors Are Standard Efficient, TEFC Continuous Duty, 40° C Ambient, Design B, Class F Insulation, 1.15 Service Factor, 1750 RPM, 3-60-230/460 Volts

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

* Motors on this page are non-stock

APG Reducers - Size 1

Double Reduction - C-Face and Separates

Nominal Ratio	Exact Ratio	Rating Data	RPM Input				Frame Size	Model Number		
			1750	1430	1170	870		C-Face		Separate
								Clamp Collar	3-Piece Coupled	
2.76	2.85	Output RPM	615	502	411	306	56C	M85900	C85900	R86200
		Output Torque (in-lb.) (Max.)	463	495	530	585		M85901	C85901	
		Output HP (Max.)	4.52	3.95	3.45	2.83	140TC	M85901	C85901	
		Input HP (Max.)	4.70	4.11	3.60	2.95	180TC	-	C85937	
3.38	3.53	Output RPM	495	405	331	246	56C	M85902	C85902	R86201
		Output Torque (in-lb.) (Max.)	522	558	597	659		M85903	C85903	
		Output HP (Max.)	4.10	3.59	3.14	2.57	140TC	M85903	C85903	
		Input HP (Max.)	4.27	3.73	3.27	2.68	180TC	-	C85938	
4.13	4.18	Output RPM	418	342	280	208	56C	M85904	C85904	R86202
		Output Torque (in-lb.) (Max.)	568	608	650	717		M85905	C85905	
		Output HP (Max.)	3.77	3.30	2.88	2.37	140TC	M85905	C85905	
		Input HP (Max.)	3.93	3.43	3.00	2.47	180TC	-	C85939	
5.06	5.02	Output RPM	348	285	233	173	56C	M85906	C85906	R86203
		Output Torque (in-lb.) (Max.)	622	665	712	785		M85907	C85907	
		Output HP (Max.)	3.44	3.01	2.63	2.16	140TC	M85907	C85907	
		Input HP (Max.)	3.58	3.13	2.74	2.25	180TC	-	C85940	
6.20	6.24	Output RPM	281	229	188	140	56C	M85908	C85908	R86204
		Output Torque (in-lb.) (Max.)	677	725	775	855		M85909	C85909	
		Output HP (Max.)	3.02	2.64	2.31	1.89	140TC	M85909	C85909	
		Input HP (Max.)	3.14	2.75	2.40	1.97	180TC	-	C85941	
7.59	7.38	Output RPM	237	194	159	118	56C	M85910	C85910	R86205
		Output Torque (in-lb.) (Max.)	721	771	824	910		M85911	C85911	
		Output HP (Max.)	2.71	2.37	2.07	1.70	140TC	M85911	C85911	
		Input HP (Max.)	2.82	2.47	2.16	1.77				
9.30	9.37	Output RPM	187	153	125	92.8	56C	M85912	C85912	R86206
		Output Torque (in-lb.) (Max.)	784	839	897	990		M85913	C85913	
		Output HP (Max.)	2.32	2.03	1.78	1.46	140TC	M85913	C85913	
		Input HP (Max.)	2.42	2.11	1.85	1.52				
11.4	11.35	Output RPM	154	126	103	76.6	56C	M85914	C85914	R86207
		Output Torque (in-lb.) (Max.)	827	885	946	1044		M85915	C85915	
		Output HP (Max.)	2.02	1.77	1.55	1.27	140TC	M85915	C85915	
		Input HP (Max.)	2.11	1.84	1.61	1.32				
14.0	13.56	Output RPM	129	105	86.3	64.2	56C	M85916	C85916	R86208
		Output Torque (in-lb.) (Max.)	878	940	1005	1109		M85917	C85917	
		Output HP (Max.)	1.80	1.57	1.38	1.13	140TC	M85917	C85917	
		Input HP (Max.)	1.87	1.64	1.43	1.18				
17.1	16.49	Output RPM	106	86.7	70.9	52.8	56C	M85918	C85918	R86209
		Output Torque (in-lb.) (Max.)	938	1003	1073	1166		M85919	C85919	
		Output HP (Max.)	1.58	1.38	1.21	0.976	140TC	M85919	C85919	
		Input HP (Max.)	1.64	1.44	1.26	1.02				
20.9	20.6	Output RPM	84.9	69.4	56.8	42.2	56C	M85920	C85920	R86210
		Output Torque (in-lb.) (Max.)	1010	1080	1155	1179		M85921	C85921	
		Output HP (Max.)	1.36	1.19	1.04	0.790	140TC	M85921	C85921	
		Input HP (Max.)	1.42	1.24	1.08	0.822				
25.6	24.4	Output RPM	71.7	58.6	48.0	35.7	56C	M85922	C85922	R86211
		Output Torque (in-lb.) (Max.)	1068	1143	1187	1187		M85923	C85923	
		Output HP (Max.)	1.22	1.06	0.903	0.671	140TC	M85923	C85923	
		Input HP (Max.)	1.27	1.11	0.94	0.699				
31.4	29.58	Output RPM	59.2	48.4	39.6	29.4	56C	M85924	C85924	R86212
		Output Torque (in-lb.) (Max.)	1138	1194	1194	1194		M85925	C85925	
		Output HP (Max.)	1.07	0.916	0.750	0.557	140TC	M85925	C85925	
		Input HP (Max.)	1.11	0.954	0.780	0.580				

Introduction

DODGE APG

Master XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

SELECTION

APG Reducers - Size 1

Triple Reduction - C-Face and Separates

Nominal Ratio	Exact Ratio	Rating Data	RPM Input				Frame Size	Model Number		
			1750	1430	1170	870		C-Face		Separate
								Clamp Collar	3-Piece Coupled	
38.4	37.41	Output RPM	46.8	38.2	31.3	23.3	56C	M85927	C85927	R86214
		Output Torque (in-lb.) (Max.)	1187	1187	1187	1187		140TC	M85943		C85943
		Output HP (Max.)	0.881	0.720	0.589	0.438				
		Input HP (Max.)	0.936	0.765	0.626	0.465				
47.1	44.28	Output RPM	39.5	32.3	26.4	19.6	56C	M85928	C85928	R86215
		Output Torque (in-lb.) (Max.)	1187	1187	1187	1187		140TC	M85944		C85944
		Output HP (Max.)	0.744	0.608	0.497	0.370				
		Input HP (Max.)	0.791	0.646	0.529	0.393				
57.7	56.23	Output RPM	31.1	25.4	20.8	15.5	56C	M85929	C85929	R86216
		Output Torque (in-lb.) (Max.)	1187	1187	1187	1187		140TC	*	
		Output HP (Max.)	0.586	0.479	0.392	0.291				
		Input HP (Max.)	0.623	0.509	0.416	0.310				
70.6	68.12	Output RPM	25.7	21.0	17.2	12.8	56C	M85930	C85930	R86217
		Output Torque (in-lb.) (Max.)	1187	1187	1187	1187		140TC	*	
		Output HP (Max.)	0.484	0.395	0.323	0.240				
		Input HP (Max.)	0.514	0.420	0.344	0.255				
86.5	81.33	Output RPM	21.1	17.6	14.4	10.7	56C	M85931	C85931	R86218
		Output Torque (in-lb.) (Max.)	1187	1187	1187	1187		140TC	*	
		Output HP (Max.)	0.401	0.331	0.271	0.201				
		Input HP (Max.)	0.430	0.352	0.288	0.214				
105.9	98.96	Output RPM	17.7	14.5	11.2	8.79	56C	M85932	C85932	R86219
		Output Torque (in-lb.) (Max.)	1187	1187	1187	1187		140TC	*	
		Output HP (Max.)	0.333	0.272	0.223	0.156				
		Input HP (Max.)	0.354	0.289	0.237	0.176				
129.7	123.6	Output RPM	14.2	11.6	9.46	7.04	56C	M85933	C85933	R86220
		Output Torque (in-lb.) (Max.)	1187	1187	1187	1187		140TC	*	
		Output HP (Max.)	0.267	0.218	0.178	0.132				
		Input HP (Max.)	0.283	0.231	0.189	0.141				
159	146.4	Output RPM	12.0	9.77	7.99	5.94	56C	M85934	C85934	R86221
		Output Torque (in-lb.) (Max.)	1187	1187	1187	1187		140TC	*	
		Output HP (Max.)	0.225	0.184	0.150	0.112				
		Input HP (Max.)	0.239	0.195	0.160	0.119				
195	177.5	Output RPM	9.86	8.06	6.59	4.90	56C	M85935	C85935	R86222
		Output Torque (in-lb.) (Max.)	1187	1187	1187	1187		140TC	*	
		Output HP (Max.)	0.186	0.152	0.124	0.092				
		Input HP (Max.)	0.197	0.161	0.132	0.098				
238	215.1	Output RPM	8.14	6.65	5.44	4.04	56C	M85936	C85936	R86223
		Output Torque (in-lb.) (Max.)	1194	1194	1194	1194		140TC	*	
		Output HP (Max.)	0.154	0.126	0.103	0.077				
		Input HP (Max.)	0.164	0.134	0.11	0.081				

* Made to Order

APG Size 1 Output Shaft Overhung Load Ratings

Class I		S.F. 1.0			1750 RPM		
	Nominal Ratio	1/3 HP	1/2 HP	3/4 HP	1 HP	1- 1/2 HP	2 HP
		OHL Rating	OHL Rating	OHL Rating	OHL Rating	OHL Rating	OHL Rating
Double	2.76	461	459	455	452	417	363
	3.37	495	492	488	484	421	354
	4.13	523	519	514	499	420	341
	5.06	555	552	547	532	449	365
	6.20	596	591	585	544	441	337
	7.59	630	624	611	550	427	305
	9.30	676	673	627	549	394	238
	11.40	683	680	635	541	352	163
	14.00	688	685	635	523	298	-
	17.10	693	689	628	492	218	-
	20.90	697	691	606	435	-	-
	25.60	699	692	577	374	-	-
	31.40	700	692	526	280	-	-
Triple	38.40	701	690	453	-	-	-
	47.10	700	687	364	-	-	-
	57.70	697	649	-	-	-	-
	70.60	693	558	-	-	-	-
	86.50	687	-	-	-	-	-
	106	678	-	-	-	-	-
	130	-	-	-	-	-	-
	159	-	-	-	-	-	-
	195	-	-	-	-	-	-
	238	-	-	-	-	-	-

Class II		S.F. 1.4			1750 RPM		
Double	2.76	459	456	451	427	352	277
	3.37	493	489	481	435	340	247
	4.13	520	515	491	436	325	214
	5.06	553	548	524	465	349	232
	6.20	592	586	534	461	317	172
	7.59	625	618	537	451	280	109
	9.30	674	643	534	425	207	-
	11.40	681	654	522	390	126	-
	14.00	686	658	501	343	-	-
	17.10	689	655	464	272	-	-
	20.90	692	640	401	161	-	-
	25.60	694	617	334	-	-	-
	31.40	694	575	231	-	-	-
Triple	38.40	692	513	-	-	-	-
	47.10	689	436	-	-	-	-
	57.70	683	-	-	-	-	-
	70.60	634	-	-	-	-	-
	86.50	-	-	-	-	-	-
	106	-	-	-	-	-	-
	130	-	-	-	-	-	-
	159	-	-	-	-	-	-
	195	-	-	-	-	-	-
	238	-	-	-	-	-	-

NOTE: Overhung loads are based on 5000 hours L10 bearing life at motor hp listed for worst case overhung load angle and shaft direction of rotation.

SELECTION

APG Reducers - Size 2

Single Reduction - C-Face

Ratio	Exact Ratio	Rating Data	RPM Input									Frame Size	Model Number C-Face
			3600	2500	1750	1430	1170	870	720	580	100		
1.22	1.25	Output RPM	2880	2000	1400	1140	935	700	575	465	80	56C	M85808
		Output Torque In-Lb	212	232	251	238	276	291	274	278	343		
		Output HP (Max.)	9.90	7.52	5.70	4.41	4.16	3.27	2.55	2.09	0.44		
		Input HP (Max.)	10.1	7.67	5.82	4.50	4.24	3.34	2.60	2.18	0.45		
		OHL Output Shaft (1)	488	505	488	625	449	424	680	690	815		
1.50	1.48	Output RPM	2430	1690	1180	965	790	585	485	390	65	56C	M85809
		Output Torque In-Lb	237	258	278	267	303	322	305	311	365		
		Output HP (Max.)	9.01	6.81	5.16	4.03	3.75	2.96	2.32	1.91	0.38		
		Input HP (Max.)	9.19	6.95	5.27	4.11	3.83	3.02	2.37	1.95	0.39		
		OHL Output Shaft (1)	497	514	508	645	473	447	690	705	835		
1.84	1.88	Output RPM	1910	1330	930	760	620	460	380	310	53	56C	M85810
		Output Torque In-Lb	249	271	293	282	317	336	318	320	377		
		Output HP (Max.)	7.74	5.85	4.42	3.49	3.21	2.53	1.98	1.60	0.32		
		Input HP (Max.)	7.90	5.97	4.51	3.56	3.28	2.58	2.02	1.63	0.33		
		OHL Output Shaft (1)	509	526	544	660	509	488	705	720	850		
2.25	2.27	Output RPM	1590	1100	770	630	515	385	315	255	44	56C	M85811
		Output Torque In-Lb	267	290	312	292	339	357	326	326	379		
		Output HP (Max.)	6.77	5.11	3.86	2.90	2.79	2.20	1.66	1.33	0.26		
		Input HP (Max.)	6.91	5.21	3.94	3.03	2.85	2.24	1.69	1.36	0.27		
		OHL Output Shaft (1)	533	537	555	675	551	531	720	735	870		
2.76	2.79	Output RPM	1290	895	630	515	420	310	260	208	36	56C	M85812
		Output Torque In-Lb	273	296	316	303	349	365	334	332	360		
		Output HP (Max.)	5.65	4.25	3.20	2.50	2.32	1.82	1.38	1.11	0.21		
		Input HP (Max.)	5.77	4.34	3.27	2.55	2.37	1.86	1.41	1.13	0.21		
		OHL Output Shaft (1)	530	548	567	690	589	606	735	750	885		
3.38	3.50	Output RPM	1030	715	500	410	335	250	205	165	29	56C	M85813
		Output Torque In-Lb	274	297	318	313	341	364	339	338	383		
		Output HP (Max.)	4.65	3.49	2.63	2.09	1.89	1.49	1.15	0.92	0.18		
		Input HP (Max.)	4.74	3.56	2.68	2.13	1.93	1.52	1.17	0.94	0.18		
		OHL Output Shaft (1)	543	562	581	705	603	620	750	765	905		
4.13	4.14	Output RPM	870	605	420	345	280	210	174	140	24	56C	M85814
		Output Torque In-Lb	287	310	335	323	362	379	344	344	360		
		Output HP (Max.)	3.96	2.97	2.23	1.79	1.61	1.26	0.95	0.76	0.14		
		Input HP (Max.)	4.04	3.03	2.28	1.83	1.64	1.29	0.97	0.78	0.14		
		OHL Output Shaft (1)	552	572	591	715	618	632	765	780	925		
5.06	5.07	Output RPM	720	500	350	286	234	174	144	116	20	56C	M85815
		Output Torque In-Lb	290	311	330	331	363	377	352	349	376		
		Output HP (Max.)	3.26	2.44	1.83	1.47	1.32	1.03	0.79	0.64	0.12		
		Input HP (Max.)	3.33	2.49	1.87	1.50	1.35	1.05	0.81	0.65	0.12		
		OHL Output Shaft (1)	564	583	604	730	627	645	780	795	940		

NOTE: Size 2 APG reducers are not thermally limited.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

APG Reducers - Size 2

Double Reduction - C-Face

Ratio	Exact Ratio	Rating Data	RPM Input									Frame Size	Model Number C-Face
			3600	2500	1750	1430	1170	870	720	580	100		
4.13	4.16	Output RPM	865	600	420	345	280	210	173	140	24		
		Output Torque in-lb.	702	770	840	865	915	960	904	942	1139	56C	M85700
		Output HP (Max.)	9.70	7.36	5.59	4.75	4.07	3.21	2.50	2.09	0.43	140TC	M85718
		Input HP (Max.)	10.10	7.67	5.82	4.95	4.24	3.34	2.60	2.18	0.45	180TC	M85736
		OHL Output Shaft (1)	405	507	595	663	718	827	950	1050	1350		
5.06	4.94	Output RPM	730	505	355	290	235	176	146	117	20		
		Output Torque in-lb.	783	850	910	959	1000	1060	1010	1047	1281	56C	M85701
		Output HP (Max.)	8.82	6.67	5.06	4.30	3.68	2.90	2.28	1.91	0.40	140TC	M85719
		Input HP (Max.)	9.19	6.95	5.27	4.48	3.83	3.02	2.37	1.99	0.42	180TC	M85737
		OHL Output Shaft (1)	405	517	616	685	741	857	980	1080	1290		
6.20	6.33	Output RPM	570	395	275	225	185	137	114	92	16		
		Output Torque in-lb.	1054	1151	1257	1292	1335	1428	1356	1403	1699	56C	M85702
		Output HP (Max.)	9.70	7.36	5.59	4.73	4.03	3.17	2.50	2.09	0.43	140TC	M85720
		Input HP (Max.)	10.10	7.67	5.82	4.92	4.19	3.31	2.60	2.18	0.45	180TC	M85738
		OHL Output Shaft (1)	345	424	510	589	653	746	935	960	1125		
7.59	7.51	Output RPM	480	330	235	190	156	116	96	77	13		
		Output Torque in-lb.	1128	1216	1315	1353	1394	1471	1509	1584	1777	56C	M85703
		Output HP (Max.)	8.48	6.35	4.80	4.04	3.43	2.68	2.28	1.91	0.37	140TC	M85721
		Input HP (Max.)	8.84	6.61	5.00	4.21	3.57	2.80	2.37	1.99	0.39	180TC	M85739
		OHL Output Shaft (1)	370	465	565	654	726	836	910	905	1115		
9.30	9.52	Output RPM	380	263	184	150	123	91	76	61	10		
		Output Torque in-lb.	1176	1262	1335	1399	1466	1517	1588	1623	1846	56C	M85704
		Output HP (Max.)	7.22	5.39	4.03	3.41	2.91	2.26	1.94	1.60	0.31	140TC	M85722
		Input HP (Max.)	7.52	5.61	4.19	3.55	3.03	2.36	2.02	1.66	0.33	180TC	M85740
		OHL Output Shaft (1)	395	526	653	736	804	912	900	915	1120		
11.4	11.51	Output RPM	315	217	152	124	102	76	63	50	8.7		
		Output Torque in-lb.	1229	1316	1394	1452	1543	1584	1627	1646	1845	56C	M85705
		Output HP (Max.)	6.14	4.57	3.43	2.89	2.45	1.91	1.63	1.33	0.25	140TC	M85723
		Input HP (Max.)	6.40	4.77	3.57	3.01	2.55	1.99	1.69	1.39	0.27	180TC	M85741
		OHL Output Shaft (1)	475	592	726	813	884	906	910	935	1170		
14.0	14.13	Output RPM	255	177	124	101	83	62	51	41	7.1		
		Output Torque in-lb.	1274	1365	1466	1503	1536	1623	1638	1661	1826	56C	M85706
		Output HP (Max.)	5.21	3.88	2.91	2.44	2.05	1.60	1.35	1.11	0.21	140TC	M85724
		Input HP (Max.)	5.43	4.04	3.03	2.53	2.13	1.66	1.41	1.15	0.21	180TC	M85742
		OHL Output Shaft (1)	540	664	804	866	917	914	940	960	1180		
17.1	17.73	Output RPM	203	141	99	81	66	49	41	33	56		
		Output Torque in-lb.	1329	1416	1543	1555	1625	1646	1690	1707	1916	56C	M85707
		Output HP (Max.)	4.43	3.28	2.45	2.06	1.75	1.33	1.13	0.92	0.18	140TC	M85725
		Input HP (Max.)	4.61	3.42	2.55	2.15	1.83	1.39	1.17	0.96	0.18		
		OHL Output Shaft (1)	600	746	884	893	901	938	940	970	1160		
20.9	20.99	Output RPM	172	119	83	68	56	41	34	28	4.8		
		Output Torque in-lb.	1371	1468	1536	1578	1620	1661	1725	1720	1801	56C	M85708
		Output HP (Max.)	3.74	2.77	2.05	1.71	1.44	1.11	0.93	0.76	0.14	140TC	M85726
		Input HP (Max.)	3.90	2.89	2.13	1.78	1.50	1.15	0.97	0.80	0.14		
		OHL Output Shaft (1)	680	836	917	927	936	959	960	1000	1280		
25.6	25.33	Output RPM	142	99	69	56	46	34	28	23	3.9		
		Output Torque in-lb.	1429	1481	1519	1527	1596	1649	1742	1745	1900	56C	M85709
		Output HP (Max.)	3.17	2.28	1.64	1.36	1.14	0.89	0.77	0.64	0.12	140TC	M85727
		Input HP (Max.)	3.31	2.37	1.71	1.42	1.19	0.93	0.81	0.66	0.12		
		OHL Output Shaft (1)	760	904	901	921	937	972	990	1015	1260		
31.4	30.0	Output RPM	120	83	58	48	39	29	24	19	3.3		
		Output Torque in-lb.	1412	1455	1534	1569	1611	1638	1718	1742	1852	56C	M85753
		Output HP (Max.)	2.58	1.90	1.40	1.17	0.98	0.75	0.63	0.51	0.09	140TC	M85754
		Input HP (Max.)	2.68	1.98	1.46	1.22	1.02	0.78	0.65	0.53	0.10		
		OHL Output Shaft (1)	925	986	1000	1015	1026	1062	1050	1080	1400		

Introduction

DODGE APG

Master XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

SELECTION

APG Reducers - Size 2

Triple Reduction - C-Face

Ratio	Exact Ratio	Rating Data	RPM Input									Frame Size	Model Number C-Face
			3600	2500	1750	1430	1170	870	720	580	100		
31.4	30.96	Output RPM	116	81	57	46	38	28	23	19	3.2	56C 140TC	M85710 M85728
		Output Torque in-lb.	904	1020	1155	1235	1323	1446	1630	1732	1851		
		Output HP (Max.)	1.65	1.29	1.03	0.89	0.78	0.64	0.59	0.51	0.09		
		Input HP (Max.)	1.76	1.38	1.09	0.95	0.83	0.68	0.63	0.54	0.10		
		OHL Output Shaft (1)	1245	1241	1217	1202	1189	1183	1100	1065	1400		
38.4	38.84	Output RPM	93	64	45	37	30	22	19	15	2.6	56C 140TC	M85711 M85729
		Output Torque in-lb.	952	1078	1235	1293	1410	1498	1649	1762	1883		
		Output HP (Max.)	1.42	1.11	0.88	0.76	0.67	0.55	0.49	0.42	0.08		
		Input HP (Max.)	1.51	1.18	0.94	0.81	0.71	0.58	0.52	0.45	0.08		
		OHL Output Shaft (1)	1250	1241	1212	1194	1180	1117	1115	1095	1350		
47.1	45.98	Output RPM	78	54	38	31	25	19	16	13	2.2	56C 140TC	M85712 M85730
		Output Torque in-lb.	1042	1174	1323	1402	1499	1666	1778	1769	1900		
		Output HP (Max.)	1.26	0.99	0.78	0.68	0.59	0.49	0.43	0.35	0.06		
		Input HP (Max.)	1.34	1.05	0.83	0.72	0.63	0.52	0.46	0.37	0.07		
		OHL Output Shaft (1)	1230	1216	1189	1167	1149	1109	1080	1080	1400		
57.7	55.49	Output RPM	65	45	32	26	21	16	13	10	1.8	56C 140TC	M85713 M85731
		Output Torque in-lb.	1112	1251	1410	1493	1632	1761	1789	1796	1920		
		Output HP (Max.)	1.09	0.85	0.67	0.59	0.52	0.42	0.35	0.29	0.05		
		Input HP (Max.)	1.16	0.91	0.71	0.62	0.55	0.45	0.38	0.31	0.06		
		OHL Output Shaft (1)	1230	1212	1180	1143	1113	1096	1125	1140	1400		
70.6	71.95	Output RPM	50	35	24	20	16	12	10	8.1	1.4	56C 140TC	M85714 M85732
		Output Torque in-lb.	1209	1381	1523	1627	1758	1769	1778	1843	1900		
		Output HP (Max.)	0.98	0.77	0.60	0.52	0.46	0.35	0.29	0.24	0.04		
		Input HP (Max.)	1.04	0.82	0.64	0.56	0.49	0.37	0.31	0.26	0.04		
		OHL Output shaft (1)	1200	1164	1149	1109	1076	1111	1150	1160	1400		
86.5	90.28	Output RPM	40	28	19	16	13	9.6	8	6.4	1.1	56C 140TC	M85715 M85733
		Output Torque in-lb.	1252	1417	1632	1667	1746	1795	1821	1805	1814		
		Output HP (Max.)	0.83	0.65	0.52	0.44	0.37	0.29	0.24	0.19	0.03		
		Input HP (Max.)	0.89	0.69	0.55	0.47	0.40	0.31	0.28	0.20	0.04		
		OHL Output Shaft (1)	1215	1183	1113	1125	1135	1141	1170	1240	1400		
105.9	106.86	Output RPM	34	23	16	13	11	8.1	6.7	5.4	0.94	56C 140TC	M85716 M85734
		Output Torque in-lb.	1369	1577	1795	1807	1813	1843	1778	1869	1909		
		Output HP (Max.)	0.74	0.58	0.47	0.39	0.32	0.24	0.19	0.16	0.03		
		Input HP (Max.)	0.79	0.61	0.50	0.41	0.34	0.26	0.20	0.17	0.03		
		OHL Output Shaft (1)	1180	1117	1050	1083	1109	1162	1250	1250	1400		
129.7	128.97	Output RPM	28	19	13.5	11	9.1	6.7	5.6	4.5	0.78	56C 140TC	M85717 M85735
		Output Torque in-lb.	1447	1628	1746	1737	1746	1804	1835	1881	1963		
		Output HP (Max.)	0.64	0.50	0.37	0.30	0.25	0.19	0.16	0.13	0.02		
		Input HP (Max.)	0.68	0.53	0.40	0.33	0.27	0.20	0.17	0.14	0.03		
		OHL Output Shaft (1)	1170	1124	1135	1172	1202	1241	1270	1305	1400		

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

APG Reducers - Size 3

Single Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input								Frame Size	Model Number	
			3600	2500	1750	1430	1170	870	720	580	100	C-Face	Separate
1.22	1.24	Output RPM	2900	2015	1410	1150	945	700	580	465	81		
		Output Torque, in-lb.	377	422	487	495	501	517	525	537	625	56C	M85598
		Output HP (Max.)	17.6	13.7	11.1	9.21	7.62	5.85	4.92	4.05	0.81	140TC	M85058
		Input HP (Max.)	18.0	14.0	11.3	9.40	7.78	5.97	5.02	4.13	0.83	180TC	M85081
		OHL Output Shaft (1)	532	500	531	590	605	710	708	756	1474	210TC	M85095
		OHL Input Shaft (1)	93.2	118	91.6	174	202	243	273	309	309		
1.50	1.53	Output RPM	2350	1635	1140	935	765	570	470	380	65	56C	M85033
		Output Torque, in-lb.	386	445	530	528	538	549	544	565	649	140TC	M85059
		Output HP (Max.)	14.7	11.8	9.80	7.99	6.65	5.06	4.15	3.47	0.69	180TC	M85082
		Input HP (Max.)	15.0	12.0	10.0	8.15	6.79	5.16	4.23	3.54	0.70	210TC	M85096
		OHL Output Shaft (1)	615	550	550	635	686	790	803	881	1506		
		OHL Input Shaft (1)	134	146	110	180	207	250	288	319	319		
1.84	1.81	Output RPM	1990	1380	965	790	645	480	400	320	55	56C	M85034
		Output Torque, in-lb.	442	500	529	540	549	558	565	574	659	140TC	M85060
		Output HP (Max.)	13.7	10.8	7.99	6.65	5.54	4.18	3.51	2.87	0.57	180TC	M85083
		Input HP (Max.)	14.0	11.0	8.15	6.79	5.65	4.27	3.58	2.93	0.58	210TC	M85097
		OHL Output Shaft (1)	618	640	695	780	786	862	950	1015	1538		
		OHL Input Shaft (1)	127	140	177	201	228	274	305	344	344		
2.25	2.30	Output RPM	1565	1090	760	620	510	380	315	250	43	56C	M85035
		Output Torque, in-lb.	463	523	555	549	554	565	573	585	667	140TC	M85061
		Output HP (Max.)	11.8	9.21	6.86	5.54	4.57	3.47	2.91	2.39	0.47	180TC	M85084
		Input HP (Max.)	12.0	9.40	7.00	5.65	4.66	3.54	2.97	2.44	0.48	210TC	M85098
		OHL Output Shaft (1)	688	740	750	850	900	1000	1075	1142	1573		
		OHL Input Shaft (1)	121	138	170	208	238	282	314	351	351		
2.76	2.79	Output RPM	1290	895	625	515	420	310	260	210	36	56C	M85036
		Output Torque, in-lb.	473	532	550	555	557	573	582	593	681	140TC	M85062
		Output HP (Max.)	9.80	7.65	5.54	4.57	3.75	2.87	2.41	1.98	0.39	180TC	M85085
		Input HP (Max.)	10.0	7.81	5.65	4.66	3.83	2.93	2.46	2.02	0.40	210TC	M85099
		OHL Output Shaft (1)	752	810	879	960	995	1094	1170	1241	1604		
		OHL Input Shaft (1)	134	152	192	220	250	293	324	362	362		
3.38	3.33	Output RPM	1080	750	525	430	350	260	215	174	30	56C	M85037
		Output Torque, in-lb.	521	540	555	558	574	585	591	604	688	140TC	M85063
		Output HP (Max.)	8.82	6.35	4.57	3.75	3.16	2.39	2.00	1.65	0.32	180TC	M85086
		Input HP (Max.)	9.00	6.48	4.66	3.83	3.22	2.44	2.04	1.68	0.33		
		OHL Output Shaft (1)	782	873	957	1025	1160	1119	1250	1341	1639		
		OHL Input Shaft (1)	129	164	206	234	260	305	338	375	375		
4.13	4.06	Output RPM	885	615	430	350	290	215	177	143	25	56C	M85038
		Output Torque, in-lb.	533	547	559	575	572	593	603	621	715	140TC	M85064
		Output HP (Max.)	7.37	5.25	3.75	3.16	2.57	1.98	1.67	1.38	0.27	180TC	M85087
		Input HP (Max.)	7.52	5.36	3.83	3.22	2.62	2.02	1.70	1.41	0.28		
		OHL Output Shaft (1)	852	941	1050	1098	1115	1116	1300	1412	1671		
		OHL Input Shaft (1)	135	173	216	239	271	314	345	380	380		
5.06	5.07	Output RPM	710	490	345	280	230	172	142	114	20	56C	M85039
		Output Torque, in-lb.	541	556	575	573	585	604	621	636	688	140TC	M85065
		Output HP (Max.)	6.11	4.36	3.16	2.57	2.15	1.65	1.40	1.16	0.22	180TC	M85088
		Input HP (Max.)	6.23	4.45	3.22	2.62	2.19	1.68	1.43	1.18	0.22		
		OHL Output Shaft (1)	913	1050	1118	1196	1320	1381	1405	1440	1705		
		OHL Input Shaft (1)	137	174	215	245	272	315	343	380	380		

NOTE: Shaded Ratings are thermally limited. See page D2-84 for thermal capabilities.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

SELECTION

APG Reducers - Size 3

Double Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input								Frame Size	Model Number	
			3600	2500	1750	1430	1170	870	720	580	100	C-Face	Separate
4.13	4.12	Output RPM	870	605	425	345	285	210	175	140	24	56C	R86048
		Output Torque, in-lb.	1249	1499	1642	1765	1794	1850	1860	1943	2249		
		Output HP (Max.)	17.28	14.4	11.04	9.70	8.06	6.18	5.15	4.33	0.86		
		Input HP (Max.)	18.00	15.0	11.50	10.10	8.40	6.44	5.36	4.51	0.90		
		OHL Output Shaft (1)	830	925	1040	1140	1200	1400	1450	1570	1940		
		OHL Input Shaft (1)	93	10	60	55	161	220	253	282	282		
5.06	5.11	Output RPM	705	490	340	280	230	170	141	114	20	56C	R86049
		Output Torque, in-lb.	1361	1592	1749	1918	1963	2013	2050	2085	2449		
		Output HP (Max.)	15.36	12.48	9.60	8.60	7.20	5.49	4.63	3.79	0.77		
		Input HP (Max.)	16.00	13.00	10.00	8.96	7.50	5.72	4.82	3.95	0.80		
		OHL Output Shaft (1)	880	980	1120	1160	1300	1450	1550	1670	1970		
		OHL Input Shaft(1)	86	41	90	49	142	219	249	186	186		
6.20	6.26	Output RPM	575	400	280	230	187	139	115	93	16	56C	R86050
		Output Torque, in-lb.	1876	2101	2422	2466	2494	2574	2615	2671	3114		
		Output HP (Max.)	17.30	13.4	10.8	9.02	7.47	5.73	4.82	3.96	0.797		
		Input HP (Max.)	18.00	14.0	11.3	9.40	7.78	5.97	5.02	4.13	0.83		
		OHL Output Shaft (1)	770	880	960	1100	1250	1360	1380	1420	1670		
		OHL Input Shaft (1)	93.2	118	91.6	174	202	243	273	309	309		
7.59	7.77	Output RPM	465	320	225	184	150	112	93	75	13	56C	R86051
		Output Torque, in-lb.	1913	2204	2620	2617	2665	2724	2698	2803	3215		
		Output HP (Max.)	14.4	11.5	9.60	7.82	6.52	4.95	4.06	3.40	0.672		
		Input HP (Max.)	15.0	12.0	10.00	8.15	6.79	5.16	4.23	3.54	0.70		
		OHL Output Shaft (1)	860	960	1030	1200	1290	1340	1370	1380	1680		
		OHL Input Shaft (1)	134	146	110	180	207	250	288	319	319		
9.30	9.20	Output RPM	390	270	190	155	127	95	78	63	11	56C	R86052
		Output Torque, in-lb.	2188	2476	2621	2672	2717	2762	2798	2843	3264		
		Output HP (Max.)	13.4	10.6	7.82	6.52	5.42	4.10	3.44	2.81	0.557		
		Input HP (Max.)	14.0	11.0	8.15	6.79	5.65	4.27	3.58	2.93	0.58		
		OHL Output Shaft(1)	900	980	1230	1290	1300	1370	1390	1380	1680		
		OHL Input Shaft (1)	127	140	177	201	228	274	305	344	344		
11.4	11.68	Output RPM	310	215	150	122	100	74	62	50	8.6	56C	R86053
		Output Torque, in-lb.	2297	2591	2750	2723	2745	2804	2843	2899	3308		
		Output HP (Max.)	11.5	9.02	6.72	5.42	4.47	3.40	2.85	2.34	0.461		
		Input HP (Max.)	12.0	9.40	7.00	5.65	4.66	3.54	2.97	2.44	0.48		
		OHL Output Shaft (1)	1000	1080	1240	1300	1320	1380	1410	1460	1730		
		OHL Input Shaft(1)	121	138	170	208	238	282	314	351	351		
14.0	14.14	Output RPM	255	177	124	101	83	62	51	41	7.1	56C	R86054
		Output Torque, In-lb.	2345	2637	2725	2750	2763	2843	2884	2940	3376		
		Output HP (Max.)	9.60	7.50	5.42	4.47	3.68	2.81	2.36	1.94	0.384		
		Input HP (Max.)	10.00	7.81	5.65	4.66	3.83	2.93	2.46	2.02	0.40		
		OHL Output Shaft (1)	1070	1240	1300	1320	1400	1420	1460	1490	1700		
		OHL Input Shaft (1)	134	152	192	220	250	293	324	362	362		
17.1	16.89	Output RPM	215	148	104	85	69	52	43	34	5.9	56C	R86055
		Output Torque, in-lb.	2585	2680	2753	2769	2846	2900	2930	2995	3412		
		Output HP (Max.)	8.64	6.22	4.47	3.68	3.09	2.34	1.96	1.61	0.317		
		Input HP (Max.)	9.00	6.48	4.66	3.83	3.22	2.44	2.04	1.68	0.33		
		OHL Output Shaft (1)	1140	1330	1320	1400	1380	1450	1470	1500	1760		
		OHL Input Shaft(1)	129	164	206	234	260	305	338	375	375		
20.9	20.55	Output RPM	175	122	85	70	57	42	35	28	4.9	56C	R86056
		Output Torque, in-lb.	2645	2715	2771	2851	2836	2940	2990	3079	3546		
		Output HP (Max.)	7.22	5.15	3.68	3.09	2.52	1.94	1.63	1.35	0.269		
		Input HP (Max.)	7.52	5.36	3.83	3.22	2.62	2.02	1.70	1.41	0.28		
		OHL Output Shaft (1)	1260	1340	1400	1390	1460	1490	1460	1520	1800		
		OHL Input Shaft(1)	135	173	216	239	271	314	345	380	380		
25.6	25.67	Output RPM	140	97	68	56	46	34	28	23	3.9	56C	R86057
		Output Torque, in-lb.	2683	2759	2852	2840	2901	2993	3079	3154	3410		
		Output HP (Max.)	5.98	4.27	3.09	2.52	2.10	1.61	1.37	1.13	0.211		
		Input HP (Max.)	6.23	4.45	3.22	2.62	2.19	1.68	1.43	1.18	0.22		
		OHL Output Shaft (1)	1360	1360	1490	1460	1460	1500	1480	1560	1840		
		OHL Input Shaft (1)	137	174	215	245	272	315	343	380	380		

NOTE: Shaded Ratings are thermally limited. See page D2-84 for thermal capabilities.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

APG Reducers - Size 3

Triple Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input								Frame Size	Model Number	
			3600	2500	1750	1430	1170	870	720	580	100	C-Face	Separate
31.4	32.15	Output RPM	112	78	54	44	36	27	22	18	3.1	56C 140TC 180TC	R86108
		Output Torque, in-lb.	2376	2685	2837	2913	2988	3078	3151	3174	3533		
		Output HP (Max.)	4.32	3.39	2.51	2.11	1.767	1.35	1.147	0.931	0.179		
		Input HP (Max.)	4.60	3.61	2.67	2.24	1.88	1.44	1.22	0.99	0.19		
		OHL Output Shaft (1)	1520	1450	1455	1450	1470	1520	1550	1590	1930		
		OHL Input Shaft (1)	217	245	284	309	336	380	411	451	451		
38.4	38.38	Output RPM	94	65	46	37	30	23	19	15	2.6	56C 140TC 180TC	R86109
		Output Torque, in-lb.	2594	2833	2915	2994	3056	3167	3163	3180	3416		
		Output HP (Max.)	3.85	2.92	2.106	1.77	1.476	1.14	0.94	0.761	0.141		
		Input HP (Max.)	4.10	3.11	2.24	1.88	1.57	1.21	1.00	0.81	0.15		
		OHL Output Shaft (1)	1460	1410	1460	1460	1485	1560	1580	1620	2120		
		OHL Input Shaft (1)	228	261	304	329	357	402	436	476	476		
47.1	46.70	Output RPM	77	54	37	31	25	19	15	12	2.1	56C 140TC 180TC	R86110
		Output Torque, in-lb.	2774	2878	2996	3062	3099	3174	3177	3270	3347		
		Output HP (Max.)	3.37	2.43	1.767	1.48	1.222	0.931	0.771	0.639	0.113		
		Input HP (Max.)	3.58	2.58	1.88	1.57	1.30	0.99	0.82	0.68	0.12		
		OHL Output Shaft(1)	1400	1450	1470	1480	1540	1580	1620	1650	2150		
		OHL Input Shaft (1)	240	278	321	347	376	423	456	494	494		
57.7	58.34	Output RPM	62	43	30	25	20	15	12	10	1.7	56C 140TC 180TC	R86111
		Output Torque, in-lb.	2837	2924	3064	3105	3123	3180	3273	3298	3074		
		Output HP (Max.)	2.81	2.01	1.476	1.22	1.006	0.761	0.649	0.526	0.085		
		Input HP (Max.)	2.99	2.14	1.57	1.30	1.07	0.81	0.69	0.56	0.09		
		OHL output Shaft (1)	1430	1460	1485	1540	1560	1620	1660	1700	2180		
		OHL Input Shaft (1)	253	293	335	363	392	439	471	511	511		
70.6	71.67	Output RPM	50	35	24	20	16	12	10	8.1	1.4	56C 140TC	R86112
		Output Torque, in-lb.	2894	2979	3108	3131	3147	3270	3370	3390	3347		
		Output HP (Max.)	2.34	1.67	1.222	1.01	0.827	0.639	0.545	0.442	0.075		
		Input HP (Max.)	2.49	1.78	1.3	1.07	0.88	0.68	0.58	0.47	0.08		
		OHL Output Shaft (1)	1460	1480	1540	1560	1610	1660	1680	1670	2200		
		OHL Input Shaft (1)	218	256	298	325	355	399	429	469	469		
86.5	85.57	Output RPM	42	29	20	17	14	10	8.4	6.8	1.2	56C 140TC	R86113
		Output Torque, in-lb.	2932	3054	3133	3189	3240	3298	3344	3357	3586		
		Output HP (Max.)	1.94	1.40	1.006	0.837	0.696	0.526	0.442	0.357	0.066		
		Input HP (Max.)	2.06	1.49	1.07	0.89	0.74	0.56	0.47	0.38	0.07		
		OHL Output Shaft (1)	1510	1490	1560	1600	1650	1700	1700	1740	2270		
		OHL Input Shaft (1)	236	274	317	344	373	419	452	492	492		
105.9	104.11	Output RPM	35	24	17	14	11	8.4	6.9	5.6	0.96	56C 140TC	R86114
		Output Torque, in-lb.	2998	3137	3191	3247	3325	3389	3398	3461	3137		
		Output HP (Max.)	1.62	1.18	0.837	0.696	0.583	0.442	0.367	0.301	0.047		
		Input HP (Max.)	1.72	1.25	0.89	0.74	0.62	0.47	0.39	0.32	0.05		
		OHL Output Shaft (1)	1490	1460	1600	1650	1660	1710	1770	1760	2300		
		OHL In Shaft (1)	250	288	332	360	388	435	468	508	508		
129.7	130.07	Output RPM	28	19	13	11	9	6.7	5.5	4.5	0.77	56C 140TC	R86115
		Output Torque, in-lb.	3074	3135	3290	3331	3284	3356	3415	3444	3074		
		Output HP (Max.)	1.35	0.959	0.705	0.583	0.47	0.357	0.301	0.244	0.038		
		Input HP (Max.)	1.44	1.02	0.75	0.62	0.50	0.38	0.32	0.26	0.04		
		OHL Output Shaft (1)	1520	1600	1660	1660	1740	1720	1780	1860	2300		
		OHL Input Shaft (1)	261	302	300	372	403	450	483	523	523		

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

* Made to Order

APG Reducers - Size 4

Single Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input									Frame Size	Model Number	
			3600	2500	1750	1430	1170	870	720	580	100		C-Face	Separate
1.22	1.24	Output RPM	2900	2015	1410	1150	945	700	580	465	80	180TC	M85142	R86008
		Output Torque, in-lb.	724	775	860	859	889	944	973	998	1153			
		Output HP (Max.)	33.9	25.2	19.6	16.0	13.5	10.7	9.11	7.53	1.5			
		Input HP (Max.)	34.6	25.7	20.0	16.3	13.8	10.9	9.30	7.68	1.53	250TC	M85183	
		OHL Output Shaft (1)	464	450	530	755	605	740	635	710	1280			
		OHL Input Shaft (1)	110	221	260	300	335	387	427	481	481			
1.50	1.47	Output RPM	2450	1700	1190	970	795	590	490	395	68	180TC	M85143	R86009
		Output Torque, in-lb.	759	814	868	901	934	987	1000	1016	1167			
		Output HP (Max.)	28.9	21.5	16.1	13.6	11.6	9.08	7.61	6.23	1.23			
		Input HP (Max.)	29.5	22.0	16.4	13.9	11.8	9.27	7.77	6.36	1.26	250TC	M85184	
		OHL Output Shaft (1)	540	610	647	660	700	760	790	880	1310			
		OHL Input Shaft (1)	200	245	295	327	361	417	465	524	524			
1.84	1.85	Output RPM	1945	1350	945	770	630	470	390	315	54	180TC	M85144	R86010
		Output Torque, in-lb.	792	846	909	938	981	1003	1017	1031	1193			
		Output HP (Max.)	24.6	18.2	13.72	11.6	9.90	7.53	6.31	5.15	1.03			
		Input HP (Max.)	25.1	18.6	14.00	11.8	10.1	7.68	6.44	5.26	1.05	250TC	M85185	
		OHL Output Shaft (1)	638	700	750	900	820	895	950	1062	1340			
		OHL Input Shaft (1)	208	253	300	337	368	437	486	546	546			
2.25	2.22	Output RPM	1620	1125	790	645	525	390	325	260	45	56C	M85107	R86011
		Output Torque, in-lb.	822	878	945	982	994	1016	1029	1049	1209			
		Output HP (Max.)	20.9	15.5	11.7	9.90	8.20	6.23	5.22	4.29	0.853			
		Input HP (Max.)	21.3	15.8	11.9	10.1	8.37	6.36	5.33	4.38	0.87	180TC	M85145	
		OHL Output Shaft (1)	718	810	845	1030	920	1041	1140	1160	1370			
		OHL Input Shaft (1)	221	268	317	350	394	464	513	571	571			
2.76	2.79	Output RPM	1290	895	625	515	420	310	260	210	36	56C	M85108	R86012
		Output Torque, in-lb	851	912	982	996	998	1029	1047	1065	1226			
		Output HP (Max.)	17.6	13.1	9.90	8.20	6.72	5.15	4.34	3.56	0.706			
		Input HP (Max.)	18.0	13.4	10.1	8.37	6.86	5.26	4.43	3.63	0.72	180TC	M85146	
		OHL Output Shaft (1)	804	900	940	1000	1070	1140	1165	1185	1400			
		OHL Input Shaft (1)	222	268	317	358	406	473	520	580	580			
3.38	3.33	Output RPM	1080	750	525	430	350	260	215	174	30	56C	M85109	R86013
		Output Torque, in-lb.	886	951	997	1000	1032	1049	1065	1093	1230			
		Output HP (Max.)	15.0	11.2	8.20	6.72	5.67	4.29	3.61	2.98	0.578			
		Input HP (Max.)	15.3	11.4	8.37	6.86	5.79	4.38	3.68	3.04	0.59	180TC	M85147	
		OHL Output Shaft (1)	869	955	1025	1060	1140	1165	1190	1210	1430			
		OHL Input Shaft (1)	232	278	336	381	420	491	540	597	597			
4.13	4.06	Output RPM	890	615	430	350	290	215	177	142	25	56C	M85110	R86014
		Output Torque, in-lb.	922	984	1001	1034	1030	1065	1089	1114	1226			
		Output HP (Max.)	12.7	9.44	6.72	5.67	4.63	3.56	3.01	2.48	0.47			
		Input HP (Max.)	13.0	9.63	6.86	5.79	4.72	3.63	3.07	2.53	0.48	180TC	M85148	
		OHL Output Shaft (1)	938	1030	1125	1135	1170	1190	1220	1240	1465			
		OHL Input Shaft(1)	235	283	351	387	436	503	550	608	608			
5.06	5.07	Output RPM	710	490	345	280	230	172	142	114	20	56C	M85111	R86015
		Output Torque, in-lb.	692	724	764	747	766	794	807	835	906			
		Output HP (Max.)	7.82	5.67	4.19	3.35	2.81	2.17	1.82	1.52	0.28			
		Input HP (Max.)	7.98	5.79	4.28	3.42	2.87	2.21	1.86	1.55	0.29	180TC	M85129	
		OHL Output Shaft (1)	1014	1115	1265	1160	1180	1215	1235	1262	1500			
		OHL Input Shaft (1)	270	340	400	460	510	580	640	700	700			

NOTE: Shaded Ratings are thermally limited. See page D2-84 for thermal capabilities.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

APG Reducers - Size 4

Double Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input								Frame Size	Model Number	
			3600	2500	1750	1430	1170	870	720	580	100	C-Face	Separate
4.13	4.14	Output RPM	870	605	420	345	280	210	174	140	24	180TC	R86058
		Output Torque, in-lb.	2429	2799	3084	3198	3310	3504	3575	3860	4473	210TC	
		Output HP (Max.)	33.60	26.88	20.74	17.57	14.88	11.71	9.89	8.60	1.72	250TC	
		Input HP (Max.)	35.00	28.00	21.60	18.30	15.50	12.20	10.3	8.96	1.79		
		OHL Output Shaft (1)	700	750	950	1070	1200	1550	1650	1800	2400		
		OHL Input Shaft (1)	85	47	113	211	284	335	375	405	405		
5.06	4.89	Output RPM	735	510	355	290	240	180	147	119	20	180TC	R86059
		Output Torque, in-lb.	2721	3062	3495	3490	3637	3836	4014	4101	4807	210TC	
		Output HP (Max.)	30.72	24.00	19.2	15.65	13.34	10.46	9.06	7.46	1.51	250TC	
		Input HP (Max.)	32.00	25.00	20.0	16.30	13.90	10.90	9.44	7.77	1.57		
		OHL Output Shaft (1)	670	800	1000	1200	1250	1600	1800	2050	2300		
		OHL Input Shaft (1)	77	96	150	262	290	345	375	415	415		
6.20	6.29	Output RPM	570	400	280	230	186	138	114	92	16	180TC	R86060
		Output Torque, in-lb.	3605	3856	4289	4276	4425	4700	4845	4967	5739	210TC	
		Output HP (Max.)	33.2	24.7	19.2	15.6	13.2	10.46	8.93	7.37	1.47	250TC	
		Input HP (Max.)	34.6	25.7	20.0	16.3	13.8	10.90	9.30	7.68	1.53		
		OHL Output Shaft (1)	470	630	800	1110	1220	1270	1380	1450	2200		
		OHL Input Shaft (1)	110	221	260	300	335	387	427	481	481		
7.59	7.43	Output RPM	485	335	235	192	157	117	97	78	13	180TC	R86061
		Output Torque, in-lb.	3763	4034	4304	4464	4632	4893	4956	5036	5786	210TC	
		Output HP (Max.)	28.3	21.1	15.7	13.3	11.3	8.90	7.46	6.11	1.21	250TC	
		Input HP (Max.)	29.5	22.0	16.4	13.9	11.8	9.27	7.77	6.36	1.26		
		OHL Output Shaft (1)	550	720	1100	1200	1210	1360	1450	1930	2300		
		OHL Input shaft (1)	200	245	295	327	361	417	465	524	524		
9.30	9.35	Output RPM	385	265	187	153	125	93	77	62	11	180TC	R86062
		Output Torque, in-lb.	3923	4186	4500	4643	4857	4967	5033	5103	5908	210TC	
		Output HP (Max.)	24.1	17.9	13.44	11.3	9.70	7.37	6.18	5.05	1.01	250TC	
		Input HP (Max.)	25.1	18.6	14.00	11.8	10.1	7.68	6.44	5.26	1.05		
		OHL Output Shaft (1)	640	970	1150	1100	1340	1450	1970	2020	2340		
		OHL Input Shaft (1)	208	253	300	337	368	437	486	546	546		
11.4	11.23	Output RPM	320	220	156	127	104	77	64	52	8.9	56C	R86063
		Output Torque, in-lb.	4077	4355	4686	4867	4930	5038	5102	5204	5996	140TC	
		Output HP (Max.)	20.4	15.2	11.4	9.70	8.04	6.11	5.12	4.20	0.835	180TC	
		Input HP (Max.)	21.3	15.8	11.9	10.1	8.37	6.36	5.33	4.38	0.87	210TC	
		OHL Output Shaft (1)	680	1140	1200	1330	1300	1980	2040	2040	2340		
		OHL Input Shaft (1)	221	268	317	350	394	464	513	571	571		
14.0	14.14	Output RPM	255	177	124	101	83	62	51	41	7.1	56C	R86064
		Output Torque, in-lb.	4220	4524	4871	4940	4949	5103	5193	5282	6077	140TC	
		Output HP (Max.)	17.3	12.9	9.7	8.04	6.59	5.05	4.25	3.48	0.691	180TC	
		Input HP (Max.)	18.0	13.4	10.1	8.37	6.86	5.26	4.43	3.63	0.72	210TC	
		OHL Output Shaft(1)	970	1210	1330	1250	1840	2040	2060	2060	2390		
		OHL Input Shaft(1)	222	268	317	358	406	473	520	580	580		
17.1	16.89	Output RPM	213	148	104	85	69	52	43	34	5.9	56C	R86065
		Output Torque, in-lb.	4395	4715	4946	4960	5117	5206	5285	5420	6101	140TC	
		Output HP (Max.)	14.7	10.9	8.04	6.59	5.56	4.20	3.53	2.92	0.566	180TC	
		Input HP (Max.)	15.3	11.4	8.37	6.86	5.79	4.38	3.68	3.04	0.59	210TC	
		OHL Output Shaft (1)	1120	1230	1250	1830	2000	2050	2020	2050	2400		
		OHL Input Shaft (1)	232	278	336	381	420	491	540	597	597		
20.9	20.55	Output RPM	175	122	85	70	57	42	35	28	4.9	56C	R86066
		Output Torque, in-lb.	4573	4878	5040	5127	5109	5284	5400	5524	6078	140TC	
		Output HP (Max.)	12.5	9.24	6.72	5.56	4.53	3.48	2.95	2.43	0.461	180TC	
		Input HP (Max.)	13.0	9.63	7.00	5.79	4.72	3.63	3.07	2.53	0.48	210TC	
		OHL Output Shaft (1)	1250	1360	1750	1990	2000	2060	2000	2130	2400		
		OHL Input Shaft(1)	235	283	300	387	436	503	550	608	608		
25.6	25.67	Output RPM	140	97	68	56	46	34	28	23	3.9	56C	R86067
		Output Torque, in-lb.	3432	3586	3787	3703	3798	3933	4000	4138	4490	140TC	
		Output HP (Max.)	7.66	5.56	4.11	3.28	2.76	2.12	1.79	1.49	0.28	180TC	
		Input HP (Max.)	7.98	5.79	4.28	3.42	2.87	2.21	1.86	1.55	0.29		
		OHL Output Shaft (1)	1280	1500	1990	2070	2010	2100	2060	2120	2400		
		OHL Input Shaft (1)	270	340	400	460	510	580	640	700	700		

NOTE: Shaded Ratings are thermally limited. See page D2-84 for thermal capabilities.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

APG Reducers - Size 4

Triple Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input									Frame Size	Model Number	
			3600	2500	1750	1430	1170	870	720	580	100		C-Face	Separate
31.4	32.59	Output RPM	110	77	54	44	36	27	22	18	3.1			
		Output Torque, in-lb.	3136	3585	4245	4448	4975	5322	5682	5707	6136	56C	M85117	
		Output HP (Max.)	5.71	4.53	3.76	3.21	2.94	2.34	2.07	1.67	0.31	140TC	M85135	
		Input HP (Max.)	6.07	4.82	4.00	3.42	3.13	2.49	2.2	1.78	0.33	180TC	M85158	
		OHL Output Shaft (1)	2030	2400	2400	2400	2240	2260	2100	2170	2400			
		OHL Input Shaft (1)	412	464	500	555	586	652	694	759	759			
38.4	38.92	Output RPM	92	64	45	37	30	22	18	15	2.6			
		Output Torque, in-lb.	3473	3981	4555	4921	5333	5706	5693	5772	6148	56C	M85118	
		Output HP (Max.)	5.16	4.11	3.29	2.90	2.58	2.05	1.69	1.38	0.254	140TC	M85005	
		Input HP (Max.)	5.49	4.37	3.50	3.09	2.74	2.18	1.80	1.47	0.27	180TC	M85159	
		OHL Output Shaft (1)	2200	2400	2390	2280	2120	2120	2160	2250	2400			
		OHL Input Shaft (1)	422	475	533	569	606	674	728	791	791			
47.1	47.35	Output RPM	76	53	37	30	25	18	15	12	2.1			
		Output Torque, in-lb.	3773	4329	4941	5344	5578	5578	5772	5867	6136	56C	M85119	
		Output HP (Max.)	4.58	3.65	2.91	2.58	2.20	1.64	1.40	1.15	0.207	140TC	M85136	
		Input HP (Max.)	4.87	3.88	3.10	2.74	2.34	1.74	1.49	1.22	0.22	180TC	M85160	
		OHL Output Shaft (1)	2400	2400	2260	2040	2130	2190	2220	2260	2400			
		OHL Input Shaft (1)	432	487	547	583	627	704	754	818	818			
57.7	59.16	Output RPM	61	42	30	24	20	15	12	9.8	1.7			
		Output Torque, in-lb.	3985	4577	5211	5589	5692	5653	5882	6006	6148	56C	M85120	
		Output HP (Max.)	3.95	3.15	2.51	2.20	1.83	1.35	1.17	0.959	0.169	140TC	M85137	
		Input HP (Max.)	4.20	3.35	2.67	2.34	1.95	1.44	1.24	1.02	0.18	180TC	M85161	
		OHL Output Shaft (1)	2400	2400	2210	2120	2140	2240	2300	2320	2400			
		OHL Input Shaft (1)	444	499	562	600	647	725	775	838	838			
70.6	71.67	Output RPM	50	35	24	20	16	12	10	8.1	1.4			
		Output Torque, in-lb.	4370	5021	5499	5705	5686	5723	6043	6131	6276	56C	M85121	
		Output HP (Max.)	3.53	2.82	2.16	1.83	1.49	1.12	0.978	0.799	0.141	140TC	M85138	
		Input HP (Max.)	3.76	3.00	2.30	1.95	1.59	1.19	1.04	0.85	0.15	180TC	M85162	
		OHL Output Shaft (1)	2400	2250	2170	2130	2200	2290	2300	2360	2400			
		OHL Input Shaft (1)	399	447	508	548	597	673	719	782	782			
86.5	85.57	Output RPM	42	29	20	17	14	10	8.4	6.8	1.2			
		Output Torque, in-lb.	4839	5369	5860	5768	5824	5889	6048	6183	6148	56C	M85122	
		Output HP (Max.)	3.20	2.46	1.88	1.51	1.25	0.94	0.799	0.658	0.113	140TC	M85139	
		Input HP (Max.)	3.40	2.62	2.00	1.61	1.33	1.00	0.85	0.70	0.12	180TC	M85163	
		OHL Output Shaft (1)	2330	2180	2050	2160	2270	2340	2400	2380	2400			
		OHL Input Shaft (1)	409	464	500	574	621	698	748	811	811			
105.9	104.11	Output RPM	35	24	17	14	11	8.4	6.9	5.6	0.96			
		Output Torque, in-lb.	5228	5646	5772	5835	5952	6058	6100	6166	6274	56C	M85123	
		Output HP (Max.)	2.82	2.11	1.51	1.25	1.04	0.79	0.658	0.536	0.094	140TC	M85140	
		Input HP (Max.)	3.00	2.25	1.61	1.33	1.11	0.84	0.70	0.57	0.10	180TC	M85164	
		OHL Output shaft (1)	2200	2020	2160	2270	2260	2360	2400	2400	2400			
		OHL input Shaft (1)	421	481	552	596	642	718	771	836	836			
129.7	130.07	Output RPM	28	19	13	11	9	6.7	5.5	4.5	0.77			
		Output Torque, in-lb.	5507	5625	5840	5964	5976	6006	6190	6227	6147	56C	M85124	
		Output HP (Max.)	2.43	1.72	1.25	1.04	0.855	0.639	0.545	0.442	0.075	140TC	M85141	
		Input HP (Max.)	2.58	1.83	1.33	1.11	0.91	0.68	0.58	0.47	0.08	180TC	M85165	
		OHL Output Shaft (1)	2110	2240	2270	2280	2360	2400	2400	2400	2400			
		OHL Input Shaft (1)	434	499	569	613	661	739	790	855	855			

(1) At one shaft diameter from the shaft shoulder. Measure in lbs.

APG Reducers - Size 5

Single Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input								Frame Size	Model Number			
			3600	2500	1750	1430	1170	870	720	580		100	C-Face	Separate	
1.22	1.21	Output RPM	2975	2065	1450	1180	965	720	595	480	83	250TC	M85252	R86016	
		Output Torque, in-lb.	1465	1625	1722	1713	1732	1793	1821	1858	2170				
		Output HP (Max.)	68.6	52.8	39.2	31.8	26.4	20.3	17.1	14.0	2.82	280TC	M85263		
		Input HP (Max.)	70.0	53.9	40.0	32.5	26.9	20.7	17.4	14.3	2.88				
		OHL Output Shaft (1)	960	975	1010	1060	1070	1105	1122	1157	1367				
		OHL Input Shaft (1)	14.8	82.8	390	460	528	626	699	787	787				
1.50	1.50	Output RPM	2400	1665	1165	955	780	580	480	385	67	180TC	M85215	R86017	
		Output Torque, in-lb.	1544	1757	1853	1872	1916	1970	2007	2045	2381	210TC	M85236		
		Output HP (Max.)	58.8	46.5	34.3	28.3	23.7	18.1	15.3	12.5	2.52	250TC	M85253		
		Input HP (Max.)	60.0	47.4	35.0	28.9	24.2	18.5	15.6	12.8	2.57	280TC	M85264		
		OHL Output Shaft (1)	1020	1035	1065	1075	1095	1130	1132	1173	1389				
		OHL Input Shaft (1)	116	105	373	460	520	622	693	782	782				
1.84	1.88	Output RPM	1910	1330	930	760	620	460	380	310	53	180TC	M85216	R86018	
		Output Torque, in-lb.	1578	1827	1948	1987	2020	2051	2084	2116	2466	210TC	M85237		
		Output HP (Max.)	49.0	39.4	29.4	24.5	20.4	15.4	12.9	10.6	2.13	250TC	M85254		
		Input HP (Max.)	50.0	40.2	30.0	25.0	20.8	15.7	13.2	10.8	2.17	280TC	M85265		
		OHL Output Shaft (1)	1043	1080	1100	1135	1149	1189	1165	1238	1463				
		OHL Input Shaft(1)	245	191	400	465	530	640	713	805	805				
2.25	2.26	Output RPM	1590	1105	775	630	515	385	320	255	44	56C	M85191	R86019	
		Output Torque, in-lb.	1768	1890	1985	2021	2031	2077	2104	2152	2501	140TC	M85203		
		Output HP (Max.)	44.9	33.3	24.5	20.4	16.8	12.7	10.7	8.80	1.76	180TC	M85217		
		Input HP (Max.)	45.8	34.0	25.0	20.8	17.1	13.0	10.9	8.98	1.80	210TC	M85238		
		OHL Output Shaft (1)	1065	1105	1138	1160	1183	1217	1245	1264	1495	250TC	M85255		
		OHL Input Shaft (1)	145	351	445	505	577	684	760	848	848	280TC	M85266		
2.76	2.79	Output RPM	1290	895	625	515	420	310	260	210	36	180TC	M85218	R86020	
		Output Torque, in-lb.	1830	1954	2040	2036	2051	2113	2144	2186	2519	210TC	M85239		
		Output HP (Max.)	37.9	28.1	20.6	16.8	13.8	10.6	8.89	7.30	1.45	250TC	M85256		
		Input HP (Max.)	38.7	28.7	21.0	17.1	14.1	10.8	9.07	7.45	1.48	280TC	M85267		
		OHL Output Shaft (1)	1086	1130	1155	1185	1209	1242	1265	1291	1525				
		OHL Input Shaft(1)	203	371	460	533	603	707	782	872	872				
3.38	3.33	Output RPM	1080	750	525	430	350	260	215	174	30	180TC	M85219	R86021	
		Output Torque, in-lb.	1899	1984	2037	2055	2120	2152	2186	2239	2501	210TC	M85240		
		Output HP (Max.)	32.1	23.3	16.8	13.8	11.7	8.80	7.40	6.11	1.18	250TC	M85257		
		Input HP (Max.)	32.8	23.8	17.1	14.1	11.9	8.98	7.55	6.23	1.20	280TC	M85268		
		OHL Output Shaft (1)	1108	1147	1186	1220	1240	1268	1295	1317	1559				
		OHL Input Shaft (1)	303	401	501	567	625	737	812	900	900				
4.13	4.06	Output RPM	890	615	430	350	290	215	177	142	25	180TC	M85220	R86022	
		Output Torque, in-lb.	1958	2012	2057	2125	2110	2186	2231	2289	2553				
		Output HP (Max.)	27.0	19.3	13.8	11.7	9.50	7.30	6.16	5.10	0.98	210TC	M85241		
		Input HP (Max.)	27.6	19.7	14.1	11.9	9.67	7.45	6.29	5.20	1.00				
		OHL Output Shaft(1)	1130	1170	1225	1233	1265	1294	1325	1344	1589				
		OHL Input Shaft (1)	330	420	522	577	655	757	830	917	917				
5.06	5.07	Output RPM	710	490	345	280	230	172	142	114	20	56C	M85192	R86023	
		Output Torque, in-lb.	1988	2038	2125	2113	2161	2238	2279	2371	2531	140TC	M85204		
		Output HP (Max.)	22.4	16.0	11.7	9.50	7.90	6.11	5.15	4.31	0.79	180TC	M85221		
		Input HP (Max.)	22.9	16.3	11.9	9.67	8.09	6.23	5.25	4.40	0.81	210TC	M85242		
		OHL Output Shaft (1)	1153	1205	1234	1260	1290	1319	1345	1370	1622				
		OHL Input Shaft (1)	334	425	518	591	655	757	831	911	911				

NOTE: Shaded Ratings are thermally limited. See page D2-84 for thermal capabilities.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

On C-Face Reducers using motor Frame Size 320 and larger, the maximum input RPM is 2500

SELECTION

APG Reducers - Size 5

Double Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input									Frame Size	Model Number	
			3600	2500	1750	1430	1170	870	720	580	100		C-Face	Separate
4.13	4.02	Output RPM	895	620	435	355	290	215	180	144	25	180TC	*	R86068
		Output Torque, in-lb.	4859	5397	5740	5854	5916	6089	6143	6419	7446	210TC	*	
		Output HP (Max.)	67.2	51.84	38.59	32.16	26.59	20.35	16.99	14.3	2.86	250TC	M85027	
		Input HP (Max.)	70.0	54.0	40.2	33.5	27.7	21.2	17.7	14.9	2.98	280TC	M85269	
		OHL Output Shaft (1)	1300	1460	1725	1840	2050	2300	2400	2550	3600			
		OHL Input Shaft(1)	15.0	75	311	440	510	610	685	760	760			
5.06	5.00	Output RPM	720	500	350	285	235	174	144	116	20	180TC	M85222	R86069
		Output Torque, in-lb.	5273	5878	6315	6401	6542	6721	6803	6968	8174	210TC	M85243	
		Output HP (Max.)	59.52	46.08	34.66	28.7	24.0	18.34	15.36	12.67	2.56	250TC	M85028	
		Input HP (Max.)	62.0	48.0	36.1	29.9	25.0	19.1	16.0	13.2	2.67	280TC	M85270	
		OHL Output Shaft (1)	1300	1570	1800	2000	2100	2350	2500	2800	3600			
		OHL Input Shaft(1)	10	60	254	440	500	600	675	760	760			
6.20	6.11	Output RPM	590	410	285	235	191	142	118	95	16	180TC	*	R86070
		Output Torque, in-lb.	7294	8088	8580	8526	8625	8925	9066	9249	10804	210TC	*	
		Output HP (Max.)	67.2	51.7	38.4	31.2	25.8	19.9	16.7	13.7	2.76	250TC	M85258	
		Input HP (Max.)	70.0	53.9	40.0	32.5	26.9	20.7	17.4	14.3	2.88	280TC	M85271	
		OHL Output Shaft (1)	780	950	1250	1550	1750	2150	2500	2750	3600			
		OHL Input Shaft (1)	14.8	82.8	390	460	528	626	699	787	787			
7.59	7.60	Output RPM	475	330	230	188	154	114	95	76	13	180TC	M85223	R86071
		Output Torque, in-lb.	7654	8707	9185	9281	9499	9765	9950	10135	11802	210TC	M85244	
		Output HP (Max.)	57.6	45.5	33.6	27.7	23.2	17.8	15.0	12.3	2.47	250TC	M85259	
		Input HP (Max.)	60.0	47.4	35.0	28.9	24.2	18.5	15.6	12.8	2.57	280TC	M85272	
		OHL Output Shaft (1)	880	1000	1350	1570	1850	2350	2650	3000	3600			
		OHL Input Shaft (1)	116	105	373	460	520	622	693	782	782			
9.30	9.55	Output RPM	380	260	183	150	123	91	75	61	10	180TC	M85224	R86072
		Output Torque, in-lb.	7815	9048	9650	9837	10003	10154	10316	10478	12210	210TC	M85057	
		Output HP (Max.)	48.0	38.6	28.8	24.0	20.0	15.1	12.7	10.4	2.08	250TC	M85260	
		Input HP (Max.)	50.0	40.2	30.0	25.0	20.8	15.7	13.2	10.8	2.17	280TC	M85273	
		OHL Output Shaft(1)	1100	1150	1470	1800	2100	2700	2950	3250	3600			
		OHL Input Shaft (1)	245	191	400	465	530	640	713	805	805			
11.4	11.46	Output RPM	315	220	153	125	102	76	63	51	8.7	56C	M85193	R86073
		Output Torque, in-lb.	8767	9372	9845	10024	10072	10298	10433	10670	12405	140TC	M85205	
		Output HP (Max.)	44.0	32.6	24.0	20.0	16.4	12.5	10.5	8.60	1.73	180TC	M85225	
		Input HP (Max.)	45.8	34.0	25.0	20.8	17.1	13.0	10.9	8.98	1.80	210TC	M85025	
		OHL Output Shaft (1)	1100	1300	1800	2100	2470	3000	3250	3570	3600	250TC	M85031	
		OHL input Shaft (1)	145	351	445	505	577	684	760	848	848	280TC	M85274	
14.0	14.14	Output RPM	255	177	124	101	83	62	51	41	7.1	180TC	M85226	R86074
		Output Torque, in-lb.	9073	9689	10160	10093	10172	10478	10632	10841	12492	210TC	M85246	
		Output HP (Max.)	37.2	27.6	20.2	16.4	13.5	10.4	8.71	7.20	1.42	250TC	M85261	
		Input HP (Max.)	38.7	28.7	21.0	17.1	14.1	10.8	9.07	7.45	1.48	280TC	M85275	
		OHL Output Shaft (1)	1200	1550	2050	2450	2900	3250	3570	3600	3600			
		OHL Input Shaft (1)	203	371	460	533	603	707	782	872	872			
17.1	16.89	Output RPM	213	148	104	85	69	52	43	34	5.9	180TC	M85227	R86075
		Output Torque, in-lb.	9421	9844	10104	10196	10517	10673	10843	11107	12408	210TC	M85022	
		Output HP (Max.)	31.5	22.8	16.4	13.5	11.4	8.60	7.25	6.00	1.15	250TC	M85262	
		Input HP (Max.)	32.8	23.8	17.1	14.1	11.9	8.98	7.55	6.23	1.20	280TC	M85276	
		OHL Output Shaft (1)	1360	1900	2470	2900	3150	3550	3600	3600	3600			
		OHL Input Shaft (1)	303	401	501	567	625	737	812	900	900			
20.9	20.55	Output RPM	175	122	85	70	57	42	35	28	4.9	180TC	M85228	R86076
		Output Torque, in-lb.	9709	9979	10203	10538	10466	10844	11063	11353	12663	210TC	M85247	
		Output HP (Max.)	26.5	18.9	13.5	11.4	9.28	7.20	6.04	4.99	0.96			
		Input HP (Max.)	27.6	19.7	14.1	11.9	9.67	7.45	6.29	5.20	1.00			
		OHL Output Shaft (1)	1550	2300	2900	3100	3400	3600	3600	3600	3600			
		OHL Input Shaft (1)	330	420	522	577	655	757	830	917	917			
25.6	25.67	Output RPM	140	97	68	56	46	34	28	23	3.9	56C	M85194	R86077
		Output Torque, in-lb.	9860	10107	10541	10482	10718	11100	11303	11759	12556	140TC	M85206	
		Output HP (Max.)	22.0	15.6	11.4	9.30	7.77	6.00	5.04	4.22	0.778	180TC	M85015	
		Input HP (Max.)	22.9	16.3	11.9	9.67	8.09	6.23	5.25	4.40	0.81	210TC	M85023	
		OHL Output Shaft (1)	1900	2550	3160	3400	3550	3600	3600	3600	3600			
		OHL input Shaft (1)	334	425	518	591	655	757	831	911	911			

NOTE: Shaded Ratings are thermally limited. See page D2-84 for thermal capabilities.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.
On C-Face Reducers using motor Frame Size 320 and larger, the maximum input RPM is 2500

APG Reducers - Size 5

Triple Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input									Frame Size	Model Number	
			3600	2500	1750	1430	1170	870	720	580	100		C-Face	Separate
31.4	31.36	Output RPM	115	80	56	46	37	28	23	18	3.2			
		Output Torque, in-lb.	6302	7134	8034	8635	9171	10132	10796	11607	12646	56C	M85195	R86124
		Output HP (Max.)	11.5	9.00	7.11	6.24	5.42	4.46	3.93	3.40	0.639	140TC	M85207	
		Input HP (Max.)	12.2	9.59	7.56	6.64	5.77	4.74	4.18	3.62	0.68	180TC	M85229	
		OHL Output Shaft (1)	2850	3250	3600	3600	3600	3600	3600	3600	3600	210TC	M85248	
		OHL Input Shaft (1)	633	715	805	860	921	1017	1083	1164	1164			
38.4	37.45	Output RPM	96	67	47	38	31	23	19	15	2.7			
		Output Torque, in-lb.	6895	7788	9110	9428	10024	11072	11703	11858	12525	56C	M85196	R86125
		Output HP (Max.)	10.2	8.00	6.58	5.56	4.84	3.98	3.48	2.84	0.517	140TC	M85208	
		Input HP (Max.)	10.9	8.55	7.00	5.92	5.15	4.23	3.70	3.02	0.55	180TC	M85008	
		OHL Output Shaft (1)	3250	3450	3600	3600	3600	3600	3600	3600	3600	210TC	M85249	
		OHL Input Shaft (1)	651	735	790	884	947	1045	1115	1213	1213			
47.1	45.56	Output RPM	79	55	38	31	26	19	16	13	2.2			
		Output Torque, in-lb.	7384	8334	9550	10084	10728	11734	11854	12070	12551	56C	M85197	R86126
		Output HP (Max.)	8.96	7.00	5.64	4.86	4.23	3.44	2.88	2.36	0.423	140TC	M85209	
		Input HP (Max.)	9.53	7.47	6.00	5.17	4.50	3.66	3.06	2.51	0.45	180TC	M85230	
		OHL Output Shaft (1)	3200	3600	3600	3600	3600	3600	3600	3600	3600	210TC	M85250	
		OHL Input Shaft (1)	669	755	840	909	973	1076	1157	1255	1255			
57.7	56.92	Output RPM	63	44	31	25	21	15	13	10	1.8			
		Output Torque, in-lb.	7675	8661	9758	10509	11180	11856	12096	12366	12295	56C	M85198	R86127
		Output HP (Max.)	7.60	6.00	4.70	4.14	3.60	2.84	2.40	1.97	0.338	140TC	M85210	
		Input HP (Max.)	8.09	6.34	5.00	4.40	3.83	3.02	2.55	2.10	0.36	180TC	M85231	
		OHL Output Shaft (1)	3450	3600	3600	3600	3600	3600	3600	3600	3600	210TC	M85251	
		OHL Input Shaft (1)	688	777	875	935	1000	1111	1191	1289	1289			
70.6	71.67	Output RPM	50	35	24	20	16	12	10	8.1	1.4			
		Output Torque, in-lb.	9123	9506	10710	11410	11693	12070	12377	12551	12551	56C	M85199	R86128
		Output HP (Max.)	7.38	5.30	4.21	3.67	3.07	2.36	2.00	1.64	0.282	140TC	M85211	
		Input HP (Max.)	7.85	5.68	4.48	3.90	3.27	2.51	2.13	1.74	0.30	180TC	M85232	
		OHL Output Shaft (1)	3600	3600	3600	3600	3600	3600	3600	3600	3600			
		OHL Input Shaft (1)	601	695	783	838	907	1019	1096	1194	1194			
86.5	85.57	Output RPM	42	29	20	17	14	10	8.4	6.8	1.2			
		Output Torque, in-lb.	9176	10349	11726	11859	12524	12367	12524	12455	12808	56C	M85200	R86129
		Output HP (Max.)	6.06	4.75	3.76	3.11	2.69	1.97	1.65	1.33	0.235	140TC	M85212	
		Input HP (Max.)	6.45	5.05	4.00	3.31	2.86	2.10	1.76	1.41	0.25	180TC	M85233	
		OHL Output Shaft (1)	3600	3600	3600	3600	3600	3600	3600	3600	3600			
		OHL Input Shaft (1)	635	718	800	875	939	1061	1142	1245	1245			
105.9	104.11	Output RPM	35	24	17	14	11	8.4	6.9	5.6	0.96			
		Output Torque, in-lb.	9794	11067	11867	11977	12494	12548	12722	12656	12548	56C	M85201	R86130
		Output HP (Max.)	5.28	4.15	3.11	2.57	2.19	1.64	1.37	1.10	0.188	140TC	M85213	
		Input HP (Max.)	5.62	4.41	3.31	2.73	2.33	1.74	1.46	1.17	0.20	180TC	M85234	
		OHL Output Shaft (1)	3600	3600	3600	3600	3600	3600	3600	3600	3600			
		OHL Input Shaft (1)	656	741	843	912	979	1098	1179	1282	1282			
129.7	130.07	Output RPM	28	19	13	11	9	6.7	5.5	4.5	0.77			
		Output Torque, in-lb.	10160	11464	11987	12305	12281	12718	12913	12718	13063	56C	M85202	R86131
		Output HP (Max.)	4.47	3.51	2.57	2.15	1.76	1.35	1.14	0.9	0.16	140TC	M85214	
		Input HP (Max.)	4.76	3.73	2.73	2.29	1.87	1.44	1.21	0.96	0.17	180TC	M85235	
		OHL Output Shaft (1)	3600	3600	3600	3600	3600	3600	3600	3600	3600			
		OHL Input Shaft (1)	677	765	872	939	1014	1129	1210	1314	1314			

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

On C-Face Reducers using motor Frame Size 320 and larger, the maximum input RPM is 2500.

APG Reducers - Size 6

Single Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input								Frame Size	Model Number	
			3600	2500	1750	1430	1170	870	720	580	100	C-Face	Separate
1.22	1.25	Output RPM	2880	2000	1400	1140	935	700	575	465	80		
		Output Torque, in-lb.	2407	2773	3229	3241	3291	3395	3454	3521	4175	250TC	M85329
		Output HP (Max.)	113	90.2	73.5	60.3	50.1	38.4	32.3	26.6	5.43	280TC	M85351
		Input HP (Max.)	115	92.0	75.0	61.5	51.1	39.2	33.0	27.1	5.54	320TC	M85373
		OHL Output Shaft (1)	1676	1700	1750	1935	2009	2140	2164	2209	2610	360TC	M85383
		OHL Input Shaft (1)	201	124	183	336	642	777	875	996	996		
1.50	1.48	Output RPM	2430	1690	1180	965	790	585	485	390	65		
		Output Torque, in-lb.	2702	3094	3256	3311	3389	3472	3526	3594	4271	250TC	M85330
		Output HP (Max.)	103	81.8	60.3	50.1	41.9	31.9	26.9	22.1	4.52	280TC	M85352
		Input HP (Max.)	105	83.5	61.5	51.1	42.8	32.6	27.4	22.5	4.61	320TC	M85374
		OHL Output Shaft(1)	1735	1810	1964	2075	2114	2200	2214	2259	2669	360TC	M85384
		OHL Input Shaft (1)	177	128	529	636	719	863	964	1087	1087		
1.84	1.88	Output RPM	1910	1330	930	760	620	460	380	310	53		
		Output Torque, in-lb.	2904	3191	3318	3401	3468	3540	3599	3664	4387	250TC	M85331
		Output HP (Max.)	90.2	68.8	50.1	41.9	35.0	26.6	22.3	18.3	3.78	280TC	M85353
		Input HP (Max.)	92.0	70.2	51.1	42.8	35.7	27.1	22.8	18.7	3.86	320TC	M85375
		OHL Output Shaft (1)	1826	2025	2083	2140	2163	2225	2275	2313	2732	360TC	M85385
		OHL Input Shaft (1)	116	270	589	666	753	902	1002	1127	1127		
2.25	2.27	Output RPM	1590	1100	770	630	515	385	315	255	44		
		Output Torque, in-lb.	3088	3269	3399	3469	3504	3594	3667	3738	4447	180TC	M85297
		Output HP (Max.)	78.4	57.6	41.9	35.0	28.9	22.1	18.6	15.3	3.14	210TC	M85313
		Input HP (Max.)	80.0	58.6	42.8	35.7	29.5	22.5	19.0	15.6	3.20	250TC	M85332
		OHL Output Shaft (1)	1919	2060	2128	2165	2211	2273	2315	2364	2792	280TC	M85354
		OHL Input Shaft (1)	180	505	623	714	809	955	1053	1178	1178	360TC	M85386
2.76	2.79	Output RPM	1290	895	630	515	420	310	260	208	36		
		Output Torque, in-lb.	3201	3336	3473	3512	3535	3659	3735	3815	4562		
		Output HP (Max.)	66.3	48.0	35.0	28.9	23.8	18.3	15.48	12.7	2.63	250TC	M85333
		Input HP (Max.)	67.7	49.0	35.7	29.5	24.3	18.7	15.80	13.0	2.68	280TC	M85355
		OHL Output Shaft (1)	2019	2110	2172	2225	2261	2323	2385	2414	2850		
		OHL Input Shaft (1)	239	528	655	744	843	982	1080	1204	1204		
3.38	3.33	Output RPM	1080	750	525	430	350	260	215	175	30		
		Output Torque, in-lb.	3283	3402	3568	3542	3670	3738	3822	3918	4565	180TC	M85298
		Output HP (Max.)	55.6	40.0	29.4	23.8	20.2	15.3	12.94	10.7	2.15	210TC	M85314
		Input HP (Max.)	56.7	40.8	30.0	24.3	20.6	15.6	13.2	10.9	2.19	250TC	M85334
		OHL Output Shaft(1)	2072	2145	2200	2265	2335	2371	2425	2463	2912	280TC	M85356
		OHL Input Shaft(1)	438	565	680	791	869	1022	1120	1241	1241		
4.13	4.06	Output RPM	890	615	430	350	290	215	177	142	25		
		Output Torque, in-lb.	3348	3462	3546	3678	3666	3815	3901	4028	4647	180TC	M85299
		Output HP (Max.)	46.3	33.2	23.8	20.2	16.5	12.7	10.78	8.97	1.78	210TC	M85315
		Input HP (Max.)	47.2	33.9	24.3	20.6	16.8	13.0	11.00	9.15	1.82	250TC	M85335
		OHL Output Shaft (1)	2116	2191	2280	2307	2360	2422	2490	2515	2971	280TC	M85357
		OHL Input Shaft(1)	468	589	730	802	907	1045	1144	1260	1260		
5.06	5.07	Output RPM	710	490	345	280	230	172	142	114	20		
		Output Torque, in-lb.	3403	3525	3679	3672	3766	3916	4019	4187	4594	56C	M85277
		Output HP (Max.)	38.4	27.6	20.2	16.5	13.8	10.7	9.07	7.61	1.44	140TC	M85287
		Input HP (Max.)	39.2	28.2	20.6	16.8	14.1	10.9	9.26	7.77	1.47	180TC	M85300
		OHL Output Shaft (1)	2160	2265	2311	2360	2410	2470	2520	2564	3036	210TC	M85316
		OHL Input Shaft (1)	473	593	721	820	906	1044	1140	1249	1249	250TC	M85336
												280TC	M85358

NOTE: Shaded Ratings are thermally limited. See page D2-84 for thermal capabilities.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

On C-Face Reducers using motor Frame Size 320 and larger, the maximum input RPM is 2500.

APG Reducers - Size 6

Double Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input									Frame Size	Model Number	
			3600	2500	1750	1430	1170	870	720	580	100		C-Face	Separate
4.13	4.17	Output RPM	865	600	420	340	280	210	173	139	24	210TC	*	R86078
		Output Torque, in-lb.	8329	9296	10700	10991	11106	11460	11557	12063	13993	250TC	M85337	
		Output HP (Max.)	115.2	89.28	72.0	60.38	49.92	38.3	31.97	26.88	5.38	280TC	M85359	
		Input HP (Max.)	120.0	93.0	75.0	62.9	52.0	39.9	33.3	28.0	5.60	320TC	M85377	
		OHL Output Shaft(1)	1630	1830	2000	2200	2450	2800	3000	3200	5500	360TC	M85387	
		OHL Input Shaft (1)	5	68	183	200	575	760	865	960	960			
5.06	4.94	Output RPM	730	505	355	290	235	176	146	117	20	210TC	*	R86079
		Output Torque, in-lb.	9099	10409	11371	11839	12089	12422	12671	12879	15185	250TC	M85338	
		Output HP (Max.)	102.72	81.6	62.4	53.09	44.35	33.89	28.61	23.42	4.76	280TC	M85360	
		Input HP (Max.)	107.0	85.0	65.0	55.3	46.2	35.3	29.8	24.4	4.96	320TC	M85378	
		OHL Output Shaft(1)	1700	1920	2200	2400	2600	2900	3180	3400	5500	360TC	M85388	
		OHL Input Shaft(1)	90	34	217	395	650	790	880	1000	1000			
6.20	6.33	Output RPM	570	395	275	225	185	137	114	92	16	210TC	*	R86080
		Output Torque, in-lb.	11983	13805	16085	16133	16384	16902	17193	17527	20782	250TC	M85339	
		Output HP (Max.)	110.0	88.3	72.0	59.0	49.1	37.6	31.7	26.0	5.32	280TC	M85361	
		Input HP (Max.)	115.0	92.0	75.0	61.5	51.1	39.2	33.0	27.1	5.54	320TC	M85379	
		OHL Output Shaft (1)	1530	1790	2000	2350	2550	2900	3150	3400	5500	360TC	M85389	
		OHL Input Shaft (1)	201	124	183	336	642	777	875	996	996			
7.59	7.51	Output RPM	480	330	235	190	156	116	96	77	13	210TC	*	R86081
		Output Torque, in-lb.	13394	15338	16138	16410	16799	17208	17476	17815	21170	250TC	M85340	
		Output HP (Max.)	101.0	80.2	59.0	49.1	41.1	31.3	26.3	21.6	4.43	280TC	M85362	
		Input HP (Max.)	105.0	83.5	61.5	51.1	42.8	32.6	27.4	22.5	4.61	320TC	M85380	
		OHL Output Shaft (1)	1600	1950	2350	2550	2600	3150	3400	3750	5500	360TC	M85390	
		OHL Input Shaft (1)	177	128	529	636	719	863	964	1087	1087			
9.30	9.53	Output RPM	380	260	184	150	123	91	76	61	10	210TC	*	R86082
		Output Torque, in-lb.	14380	15800	16430	16841	17169	17527	17818	18142	21720	250TC	M85341	
		Output HP (Max.)	88.3	67.4	49.1	41.1	34.3	26.0	21.9	18.0	3.71	280TC	M85363	
		Input HP (Max.)	92.0	70.2	51.1	42.8	35.7	27.1	22.8	18.7	3.86	320TC	M85381	
		OHL Output Shaft(1)	1800	2150	2550	2800	3000	3400	3650	4100	5500	360TC	M85391	
		OHL Input Shaft(1)	116	270	589	666	753	902	1002	1127	1127			
11.4	11.52	Output RPM	315	215	152	124	102	76	63	50	8.7	180TC	M85301	R86083
		Output Torque, in-lb.	15314	16209	16854	17204	17376	17823	18186	18536	22052	210TC	M85317	
		Output HP (Max.)	76.8	56.4	41.1	34.3	28.3	21.6	18.2	15.0	3.07	250TC	M85342	
		Input HP (Max.)	80.0	58.8	42.8	35.7	29.5	22.5	19.0	15.6	3.20	280TC	M85364	
		OHL Output Shaft (1)	2000	2400	2800	3000	3300	3750	4100	4400	5500	320TC	M85382	
		OHL Input Shaft(1)	180	505	623	714	809	955	1053	1178	1178	360TC	M85392	
14.0	14.14	Output RPM	255	177	124	101	83	62	51	41	7.1			R86084
		Output Torque, in-lb.	15872	16543	17218	17412	17530	18142	18522	18918	22620			
		Output HP (Max.)	65.0	47.0	34.3	28.3	23.3	18.0	15.17	12.5	2.57	250TC	M85343	
		Input HP (Max.)	67.7	49.0	35.7	29.5	24.3	18.7	15.8	13.0	2.68	280TC	M85365	
		OHL Output Shaft(1)	2200	2600	3000	3300	3650	4100	4450	4800	5500			
		OHL Input Shaft(1)	239	528	655	744	843	982	1080	1204	1204			
17.1	16.89	Output RPM	213	148	104	85	69	52	43	34	5.9			R86085
		Output Torque, in-lb.	16286	16875	17790	17571	18206	18541	18957	19432	22645	180TC	M85302	
		Output HP (Max.)	54.4	39.2	28.8	23.3	19.8	15.0	12.67	10.5	2.10	210TC	M85318	
		Input HP (Max.)	56.7	40.8	30.0	24.3	20.6	15.6	13.2	10.9	2.19	250TC	M85344	
		OHL Output Shaft (1)	2450	2850	3200	3600	3900	4500	4750	5250	5500	280TC	M85366	
		OHL Input Shaft(1)	438	565	680	791	869	1022	1120	1241	1241			
20.9	20.55	Output RPM	175	122	85	70	57	42	35	28	4.9			R86086
		Output Torque, in lb.	16603	17172	18000	18243	18183	18922	19347	19978	23048	180TC	M85303	
		Output HP (Max.)	45.3	32.5	24.0	19.8	16.1	12.5	10.56	8.78	1.75	210TC	M85319	
		Input HP (Max.)	47.2	33.9	25.0	20.6	16.8	13.0	11.0	9.15	1.82	250TC	M85345	
		OHL Output Shaft (1)	2700	3100	3500	3900	4300	4800	5200	5500	5500	280TC	M85367	
		OHL Input Shaft (1)	468	589	700	802	907	1045	1144	1260	1260			
25.6	25.67	Output RPM	140	97	68	56	46	34	28	23	3.9	56C	M85278	R86087
		Output Torque, in lb.	16879	17485	18675	18211	18681	19421	19936	20766	22787	140TC	M85288	
		Output HP (Max.)	37.6	27.1	20.2	16.1	13.5	10.5	8.89	7.46	1.41	180TC	M85304	
		Input HP (Max.)	39.2	28.2	21.0	16.8	14.1	10.9	9.26	7.77	1.47	210TC	M85320	
		OHL Output Shaft (1)	2900	3400	3850	4300	4650	5250	5500	5500	5500	250TC	M85346	
		OHL Input Shaft (1)	473	593	700	820	906	1044	1140	1249	1249	280TC	M85368	

NOTE: Shaded Ratings are thermally limited. See page D2-84 for thermal capabilities.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

On C-Face Reducers using motor Frame Size 320 and larger, the maximum input RPM is 2500.

* Made to Order

SELECTION

APG Reducers - Size 6

Triple Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input									Frame Size	Model Number	
			3600	2500	1750	1430	1170	870	720	580	100		C-Face	Separate
31.4	31.98	Output RPM	113	78	55	45	37	27	23	18	3.1	56C	M85279	R86132
		Output Torque, in-lb.	11421	13137	15058	16334	18247	19943	20611	20713	23432	140TC	M85289	
		Output HP (Max.)	20.78	16.6	13.3	11.8	10.8	8.77	7.50	6.07	1.18	180TC	M85305	
		Input HP (Max.)	22.1	17.7	14.2	12.6	11.5	9.33	7.98	6.46	1.26	210TC	M85321	
		OHL Output Shaft (1)	3550	4000	4500	4800	5100	5500	5500	5500	5500	250TC	M85347	
		OHL Input Shaft(1)	834	937	1049	1118	1178	1305	1403	1538	1538	280TC	M85369	
38.4	38.18	Output RPM	94	65	46	37	31	23	19	15	2.6	56C	M85280	R86133
		Output Torque, in-lb.	12949	14894	17073	18521	19815	20758	20622	20967	23229	140TC	M85290	
		Output HP (Max.)	19.24	15.4	12.3	10.9	9.57	7.45	6.13	5.02	0.959	180TC	M85306	
		Input HP (Max.)	20.5	16.4	13.1	11.6	10.2	7.93	6.52	5.34	1.02	210TC	M85322	
		OHL Output Shaft (1)	3750	4250	4750	5050	5400	5500	5500	5500	5500	250TC	M85348	
		OHL Input Shaft(1)	852	957	1073	1143	1222	1368	1483	1614	1614	280TC	M85370	
47.1	46.46	Output RPM	77	54	38	31	25	19	15	12	2.2	56C	M85281	R86134
		Output Torque, in-lb.	13868	15943	18265	19856	20239	20710	20919	21352	23150	140TC	M85291	
		Output HP (Max.)	16.83	13.4	10.8	9.57	7.98	6.07	5.08	4.17	0.78	180TC	M85307	
		Input HP (Max.)	17.9	14.3	11.5	10.2	8.49	6.46	5.40	4.44	0.83	210TC	M85323	
		OHL Output Shaft (1)	4100	4550	5100	5400	5500	5500	5500	5500	5500	250TC	M85349	
		OHL Input Shaft(1)	880	989	1110	1183	1279	1434	1544	1675	1675	280TC	M85371	
57.7	58.04	Output RPM	62	43	30	25	20	15	12	10	1.7	56C	M85282	R86135
		Output Torque, in-lb.	14440	16599	19480	20277	20638	20963	21441	22023	22883	140TC	M85292	
		Output HP (Max.)	14.31	11.4	9.40	7.98	6.65	5.02	4.25	3.52	0.63	180TC	M85308	
		Input HP (Max.)	15.2	12.2	10.0	8.49	7.07	5.34	4.52	3.74	0.67	210TC	M85324	
		OHL Output Shaft (1)	4350	4900	5400	5500	5500	5500	5500	5500	5500	250TC	M85350	
		OHL Input Shaft(1)	909	1023	1100	1229	1326	1485	1592	1722	1722	280TC	M85372	
70.6	71.67	Output RPM	50	35	24	20	16	12	10	8.1	1.4	56C	M85283	R86136
		Output Torque, in-lb.	16584	19296	20297	20685	20633	22746	22081	22650	23011	140TC	M85293	
		Output HP (Max.)	13.41	10.8	7.98	6.65	5.42	4.45	3.57	2.95	0.517	180TC	M85309	
		Input HP (Max.)	14.3	11.5	8.49	7.07	5.77	4.73	3.80	3.14	0.55	210TC	M85325	
		OHL Output Shaft (1)	4600	5150	5500	5500	5500	5500	5500	5500	5500	250TC	M85325	
		OHL Input Shaft(1)	790	882	1018	1106	1208	1334	1458	1586	1586	280TC	M85372	
86.5	85.57	Output RPM	42	29	20	17	14	10	8.4	6.8	1.2	56C	M85284	R86137
		Output Torque, in-lb.	18259	19838	20698	20923	21150	22025	22344	22790	24080	140TC	M85294	
		Output HP (Max.)	12.06	9.10	6.65	5.49	4.54	3.52	2.95	2.43	0.442	180TC	M85310	
		Input HP (Max.)	12.8	9.68	7.07	5.84	4.83	3.74	3.14	2.58	0.47	210TC	M85326	
		OHL Output Shaft (1)	4850	5500	5500	5500	5500	5500	5500	5500	5500	250TC	M85326	
		OHL Input Shaft(1)	818	935	1076	1168	1266	1416	1524	1655	1655	280TC	M85372	
105.9	104.11	Output RPM	35	24	17	14	11	8.4	6.9	5.6	0.96	56C	M85285	R86138
		Output Torque, in-lb.	19397	20453	21530	21191	21771	22644	22656	22932	23213	140TC	M85295	
		Output HP (Max.)	10.46	7.66	5.64	4.54	3.82	2.95	2.44	1.99	0.348	180TC	M85311	
		Input HP (Max.)	11.1	8.15	6.00	4.83	4.06	3.14	2.60	2.12	0.37	210TC	M85327	
		OHL Output Shaft (1)	5200	5500	5500	5500	5500	5500	5500	5500	5500	250TC	M85327	
		OHL Input Shaft (1)	852	979	1100	1219	1314	1466	1578	1712	1712	280TC	M85372	
129.7	130.07	Output RPM	28	19	13	11	9	6.7	5.5	4.5	0.77	56C	M85286	R86139
		Output Torque, in-lb.	19914	20408	21930	21816	21935	22787	22945	23052	23820	140TC	M85296	
		Output HP (Max.)	8.77	6.24	4.70	3.82	3.14	2.43	2.02	1.64	0.291	180TC	M85312	
		Input HP (Max.)	9.33	6.64	5.00	4.06	3.34	2.58	2.15	1.74	0.31	210TC	M85328	
		OHL Output Shaft (1)	5500	5500	5500	5500	5500	5500	5500	5500	5500	250TC	M85328	
		OHL Input Shaft(1)	888	1023	1100	1258	1358	1512	1623	1759	1759	280TC	M85372	

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

On C-Face Reducers using motor Frame Size 320 and larger, the maximum input RPM is 2500.

APG Reducers - Size 7

Single Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input								Frame Size	Model Number	
			2500	1750	1430	1170	870	720	580	100		C-Face	Separate
1.22	1.21	Output RPM	2065	1450	1180	965	720	595	480	83	180TC	*	R86032
		Output Torque, in-lb.	5516	6027	6113	6209	6418	6520	6678	7799	210TC	*	
		Output HP (Max.)	179	137	113.7	94.5	72.6	61.1	50.4	10.1	250TC	*	
		Input HP (Max.)	183	140	116	96.4	74.1	62.3	51.4	10.4	280TC	*	
		OHL Output Shaft (1)	2150	2150	2400	2537	2800	2954	3119	4048	320TC	M85453	
		OHL Input Shaft (1)	131	580	794	923	1117	1261	1430	1430	360TC	M85475	
1.50	1.50	Output RPM	1665	1165	955	780	580	480	385	67	180TC	*	R86033
		Output Torque, in-lb.	5929	6586	6738	6881	7082	7206	7364	8579	210TC	*	
		Output HP (Max.)	157	122	101.9	85.2	65.2	54.9	45.2	9.07	250TC	*	
		Input HP (Max.)	160	125	104	86.9	66.5	56.0	46.1	9.26	280TC	*	
		OHL Output Shaft (1)	2400	2400	2600	2765	3000	3175	3341	4129	320TC	M85454	
		OHL Input Shaft (1)	227	460	782	903	1103	1244	1416	1416	360TC	M85476	
1.84	1.88	Output RPM	1330	930	760	620	460	380	310	53	180TC	*	R86034
		Output Torque, in-lb.	6273	7014	7327	7547	7733	7861	8014	9376	210TC	*	
		Output HP (Max.)	135	106	90.4	76.1	58.0	48.8	40.1	8.08	250TC	M85413	
		Input HP (Max.)	138	108	92.2	77.7	59.2	49.8	40.9	8.25	280TC	M85433	
		OHL Output Shaft (1)	2620	2711	2900	2969	3228	3340	3504	4209	320TC	M85455	
		OHL Input Shaft(1)	288	389	636	868	1074	1216	1391	1391	360TC	M85477	
2.25	2.26	Output RPM	1105	775	630	515	385	320	255	44	180TC	*	R86035
		Output Torque, in-lb.	6671	7520	7794	7863	8051	8184	8338	9603	210TC	*	
		Output HP (Max.)	118	92.8	78.6	64.9	49.4	41.6	34.1	6.77	250TC	M85414	
		Input HP (Max.)	120	94.7	80.2	66.2	50.4	42.4	34.8	6.91	280TC	M85434	
		OHL Output Shaft (1)	2800	2899	3000	3189	3389	3631	3631	4298	320TC	M85456	
		OHL Input Shaft (1)	438	485	792	930	1138	1281	1458	1458	360TC	M85478	
2.76	2.79	Output RPM	895	625	515	420	310	260	210	36	180TC	*	R86036
		Output Torque, in-lb.	6809	7801	7880	7915	8179	8322	8482	9584	210TC	*	
		Output HP (Max.)	98	78.6	64.9	53.3	41.0	34.5	28.3	5.52	250TC	M85415	
		Input HP (Max.)	100	80.2	66.2	54.4	41.8	35.2	28.9	5.63	280TC	M85435	
		OHL Output Shaft(1)	2900	3058	3189	3384	3572	3725	3713	4402	320TC	M85457	
		OHL Input Shaft (1)	630	563	843	987	1184	1327	1504	1504	360TC	M85479	
3.38	3.33	Output RPM	750	525	430	350	260	215	174	30	180TC	*	R86037
		Output Torque, in-lb.	7504	7886	7930	8196	8338	8483	8734	9589	210TC	*	
		Output HP (Max.)	88.2	64.9	53.3	45.1	34.1	28.7	23.8	4.51	250TC	M85416	
		Input HP (Max.)	90.0	66.2	54.4	46.0	34.8	29.3	24.3	4.60	280TC	M85436	
		OHL Output Shaft(1)	3023	3243	3450	3600	3649	3750	3793	4506	320TC	M85458	
		OHL Input Shaft (1)	429	795	929	1038	1257	1402	1567	1567	360TC	M85480	
4.13	4.06	Output RPM	615	430	350	290	215	177	142	25	180TC	*	R86038
		Output Torque, in-lb.	7772	7937	8214	8184	8482	8688	8937	9703	210TC	*	
		Output HP (Max.)	74.6	53.3	45.1	36.8	28.3	24.0	19.9	3.72	250TC	M85417	
		Input HP (Max.)	76.1	54.4	46.0	37.5	28.9	24.5	20.3	3.80	280TC	M85437	
		OHL Output Shaft (1)	3192	3500	3552	3650	3731	3800	3875	4604	320TC	M85459	
		OHL Input Shaft (1)	547	851	952	1107	1304	1440	1607	1607	360TC	M85481	
5.06	5.07	Output RPM	490	345	280	230	172	142	114	20	180TC	M85393	R86039
		Output Torque, in-lb.	7901	8215	8196	8388	8729	8898	9268	9657	210TC	M85403	
		Output HP (Max.)	61.9	45.1	36.8	30.8	23.8	20.1	16.9	3.03	250TC	M85418	
		Input HP (Max.)	63.2	46.0	37.5	31.4	24.3	20.5	17.2	3.09	280TC	M85438	
		OHL Output Shaft (1)	3450	3591	3638	3725	3809	3875	3953	4709	320TC	M85460	
		OHL Input Shaft (1)	586	839	984	1106	1298	1441	1591	1591	360TC	M85482	

NOTE: Shaded Ratings are thermally limited. See page D2-84 for thermal capabilities.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

On C-Face Reducers using motor Frame Size 320 and larger, the maximum input RPM is 2500.
Separate Reducers are limited to 3000 input RPM.

* Made to Order

APG Reducers - Size 7

Double Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input								Frame Size	Model Number	
			2500	1750	1430	1170	870	720	580	100		C-Face	Separate
4.13	4.02	Output RPM	620	435	355	290	215	180	144	25	180TC	*	R86088
		Output Torque, in-lb.	18491	20419	20794	21080	21743	21899	22920	26737	210TC	*	
		Output HP (Max.)	177.6	137.28	114.24	94.75	72.67	60.58	51.07	10.27	250TC	*	
		Input HP (Max.)	185	143	119	98.7	75.7	63.1	53.2	10.7	280TC	*	
		OHL Output Shaft (1)	2400	2750	2900	3200	3750	4000	4200	8550	320TC	M85461	
		OHL Input Shaft (1)	43	225	700	890	1085	1240	1375	1375	360TC	M85483	
5.06	5.00	Output RPM	500	350	285	235	174	144	116	20	180TC	*	R86089
		Output Torque, in-lb.	19961	22568	22694	23315	23964	24364	25125	29390	210TC	*	
		Output HP (Max.)	156.48	123.84	101.76	85.54	65.38	55.01	45.7	9.22	250TC	*	
		Input HP (Max.)	163	129	106	89.1	68.1	57.3	47.6	9.60	280TC	*	
		OHL Output Shaft (1)	2550	2850	3200	3400	3900	4160	4550	8730	320TC	M85462	
		OHL Input Shaft (1)	78	53	640	865	1065	1210	1365	1365	360TC	M85484	
6.20	6.11	Output RPM	410	285	235	191	142	118	95	16	180TC	*	R86090
		Output Torque, in-lb.	27459	30000	30430	30908	31950	32459	33244	38825	210TC	*	
		Output HP (Max.)	176	134	111.4	92.5	71.1	59.8	49.3	9.94	250TC	*	
		Input HP (Max.)	183	140	116	96.4	74.1	62.3	51.4	10.4	280TC	*	
		OHL Output Shaft (1)	2150	2750	3000	3250	3850	4250	4650	8730	320TC	M85463	
		OHL Input Shaft (1)	131	580	794	923	1117	1261	1430	1430	360TC	M85496	
7.59	7.60	Output RPM	330	230	188	154	114	95	76	13	180TC	*	R86091
		Output Torque, in-lb.	29390	34730	33398	34108	35102	35718	36500	42524	210TC	*	
		Output HP (Max.)	154	120	99.8	83.4	63.8	53.8	44.3	8.89	250TC	*	
		Input HP (Max.)	160	125	104	86.9	66.5	56.0	46.1	9.26	280TC	*	
		OHL Output Shaft (1)	2250	2700	3100	3500	4200	4450	4850	8730	320TC	M85464	
		OHL Input Shaft (1)	227	460	782	903	1103	1244	1416	1416	360TC	M85485	
9.30	9.55	Output RPM	260	183	150	123	91	75	61	10	180TC	*	R86092
		Output Torque, in-lb.	31060	34726	36280	37368	38289	38919	39679	46422	210TC	*	
		Output HP (Max.)	132	104	88.5	74.6	56.8	47.8	39.3	7.92	250TC	M85419	
		Input HP (Max.)	138	108	92.2	77.7	59.2	49.8	40.9	8.25	280TC	M85439	
		OHL Output Shaft (1)	2750	3000	3350	3750	4350	4750	5200	8730	320TC	M85465	
		OHL Input Shaft (1)	288	389	636	868	1074	1216	1391	1391	360TC	M85486	
11.4	11.46	Output RPM	220	153	125	102	76	63	51	8.7	180TC	*	R86093
		Output Torque, in-lb.	33079	37292	38650	38992	39923	40583	41348	47620	210TC	*	
		Output HP (Max.)	115	90.9	77.0	63.6	48.4	40.7	33.4	6.63	250TC	M85420	
		Input HP (Max.)	120	94.7	80.2	66.2	50.4	42.4	34.8	6.91	280TC	M85440	
		OHL Output Shaft (1)	2950	3250	3700	4100	4650	5100	5550	8730	320TC	M85466	
		OHL Input Shaft (1)	438	485	792	930	1138	1281	1458	1458	360TC	M85487	
14.0	14.14	Output RPM	177	124	101	83	62	51	41	7.1	180TC	*	R86094
		Output Torque, in-lb.	33761	38681	39073	39244	40552	41264	42056	47519	210TC	*	
		Output HP (Max.)	96.0	77.0	63.6	52.2	40.1	33.8	27.7	5.40	250TC	M85421	
		Input HP (Max.)	100	80.2	66.2	54.4	41.8	35.2	28.9	5.63	280TC	M85441	
		OHL Output Shaft (1)	3200	3700	4100	4500	5150	5550	6100	8730	320TC	M85467	
		OHL Input Shaft (1)	630	563	843	987	1184	1327	1504	1504	360TC	M85488	
17.1	16.89	Output RPM	148	104	85	69	52	43	34	5.9	180TC	*	R86095
		Output Torque, in-lb.	37224	39115	39336	40654	41361	42079	43322	47565	210TC	*	
		Output HP (Max.)	86.4	63.6	52.2	44.2	33.4	28.1	23.3	4.42	250TC	M85422	
		Input HP (Max.)	90.0	66.2	54.4	46.0	34.8	29.3	24.3	4.60	280TC	M85442	
		OHL Output Shaft (1)	3400	4100	4500	4900	5550	6000	6600	8730	320TC	M85468	
		OHL Input Shaft (1)	429	795	929	1038	1257	1402	1567	1567	360TC	M85489	
20.9	20.55	Output RPM	122	85	70	57	42	35	28	4.9	180TC	*	R86096
		Output Torque, in-lb.	38548	40275	40736	40588	42066	43091	44322	48121	210TC	*	
		Output HP (Max.)	73.1	53.7	44.2	36.0	27.7	23.5	19.5	3.65	250TC	M85423	
		Input HP (Max.)	76.1	56.0	46.0	37.5	28.9	24.5	20.3	3.80	280TC	M85443	
		OHL Output Shaft (1)	3800	4400	4900	5400	6100	6550	7050	8730	320TC	M85469	
		OHL In Shaft 1	547	825	952	1107	1304	1440	1607	1607	360TC	M85490	
25.6	25.67	Output RPM	97	68	56	46	34	28	23	3.9	180TC	M85394	R86097
		Output Torque, in lb.	39187	40746	40650	41601	43296	44135	45969	47898	210TC	M85404	
		Output HP (Max.)	60.7	44.2	36.0	30.1	23.3	19.7	16.5	2.97	250TC	M85424	
		Input HP (Max.)	63.2	46.0	37.5	31.4	24.3	20.5	17.2	3.09	280TC	M85444	
		OHL Output Shaft (1)	4200	4900	5400	5900	6600	7000	7650	8730	320TC	M85470	
		OHL Input Shaft (1)	586	839	984	1106	1298	1441	1591	1591	360TC	M85491	

NOTE: Shaded Ratings are thermally limited. See page D2-84 for thermal capabilities.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

On C-Face Reducers using motor Frame Size 320 and larger, the maximum input RPM is 2500.

Separate Reducers are limited to 3000 input RPM.

* Made to Order

APG Reducers - Size 7

Triple Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input								Frame Size	Model Number	
			2500	1750	1430	1170	870	720	580	100		C-Face	Separate
31.4	32.15	Output RPM	78	54	44	36	27	22	18	3.10	180TC	M85395	R86140
		Output Torque, in-lb.	28430	30286	31939	33696	35911	37710	39886	49095	210TC	M85405	
		Output HP (Max.)	35.90	26.80	23.10	19.90	15.80	13.70	11.70	2.48	250TC	M85425	
		Input HP (Max.)	38.20	28.50	24.60	21.20	16.80	14.60	12.40	2.64	280TC	M85445	
		OHL Output Shaft (1)	5250	6000	6450	6900	7600	8200	8730	8730	320TC	M85471	
		OHL Input Shaft (1)	1328	1524	1639	1759	1962	2101	2269	2269	360TC	M85492	
38.4	38.38	Output RPM	65.00	46	37	30	23	19	15	2.60	180TC	M85396	R86141
		Output Torque, in-lb.	30106	32598	34510	36204	38741	40486	42405	48735	210TC	M85406	
		Output HP (Max.)	31.10	23.50	20.40	17.50	13.90	12.00	10.20	2.01	250TC	M85426	
		Input HP (Max.)	33.10	25.10	21.70	18.60	14.80	12.80	10.80	2.14	280TC	M85446	
		OHL Output Shaft (1)	5600	6400	6850	7400	8150	8730	8730	8730	320TC	M85472	
		OHL Input Shaft (1)	1393	1587	1702	1830	2036	2179	2357	2357	360TC	M85493	
47.1	46.70	Output RPM	54	37	31	25	19	15	12	2.10	180TC	M85397	R86142
		Output Torque, in-lb.	32076	35192	36884	38381	41357	43000	45829	48253	210TC	M85407	
		Output HP (Max.)	27.00	20.80	17.80	15.10	12.10	10.40	8.96	1.63	250TC	M85427	
		Input HP (Max.)	28.80	22.10	18.90	16.10	12.90	11.10	9.53	1.73	280TC	M85447	
		OHL Output Shaft (1)	6050	6800	7300	7900	8730	8730	8730	8730	320TC	M85473	
		OHL Input Shaft (1)	1446	1640	1762	1897	2103	2252	2425	2425	360TC	M85494	
57.7	58.34	Output RPM	43	30	25	20	15	12	10	1.70	180TC	M85398	R86143
		Output Torque, in-lb.	34168	38960	39002	40284	43968	46535	49111	47815	210TC	M85408	
		Output HP (Max.)	23.50	18.80	15.40	13.00	10.50	9.22	7.84	1.32	250TC	M85428	
		Input HP (Max.)	25.00	20.00	16.30	13.80	11.20	9.81	8.34	1.40	280TC	M85448	
		OHL Output Shaft (1)	6500	7200	7800	8500	8730	8730	8730	8730	320TC	M85474	
		OHL Input Shaft (1)	1493	1600	1819	1958	2165	2309	2489	2489	360TC	M85495	
70.6	71.67	Output RPM	35	24	20	16	12	10	8.10	1.40	180TC	M85399	R86144
		Output Torque, in-lb.	33972	36937	38181	40407	44146	47184	48835	46858	210TC	M85409	
		Output HP (Max.)	19.10	14.50	12.30	10.60	8.63	7.63	6.36	1.05	250TC	M85429	
		Input HP (Max.)	20.30	15.50	13.10	11.30	9.18	8.12	6.77	1.12	280TC	M85449	
		OHL Output Shaft (1)	7000	7950	8600	8730	8730	8730	8730	8730	320TC	M85475	
		OHL Input Shaft (1)	1338	1525	1650	1769	1960	2085	2267	2267	360TC	M85496	
86.5	85.57	Output RPM	29	20	17	14	10	8.40	6.80	1.20	180TC	M85400	R86145
		Output Torque, in-lb.	36355	38967	41739	43746	48113	48814	48849	50721	210TC	M85410	
		Output HP (Max.)	16.70	12.50	11.00	9.39	7.68	6.45	5.20	.931	250TC	M85430	
		Input HP (Max.)	17.70	13.30	11.70	9.99	8.17	6.86	5.53	.99	280TC	M85450	
		OHL Output Shaft (1)	7450	8550	8730	8730	8730	8730	8730	8730	320TC	M85476	
		OHL Input Shaft (1)	1397	1596	1706	1834	2027	2186	2390	2390	360TC	M85497	
105.9	104.11	Output RPM	24	17	14	11	8.40	6.90	5.60	0.96	180TC	M85401	R86146
		Output Torque, in-lb.	38823	42555	44575	47564	47883	48884	49109	48309	210TC	M85411	
		Output HP (Max.)	14.50	11.20	9.55	8.34	6.24	5.27	4.27	.724	250TC	M85431	
		Input HP (Max.)	15.50	11.90	10.20	8.87	6.64	5.61	4.54	.77	280TC	M85451	
		OHL Output Shaft (1)	8050	8730	8730	8730	8730	8730	8730	8730	320TC	M85477	
		OHL Input Shaft (1)	1449	1643	1766	1889	2128	2286	2488	2488	360TC	M85498	
129.7	130.07	Output RPM	19	13	11	9.00	6.70	5.50	4.50	0.77	180TC	M85402	R86147
		Output Torque, in-lb.	41401	45401	48790	48796	47870	49412	49150	49177	210TC	M85412	
		Output HP (Max.)	12.70	9.72	8.54	6.98	5.09	4.35	3.49	.602	250TC	M85432	
		Input HP (Max.)	13.50	10.30	9.08	7.43	5.42	4.63	3.71	.64	280TC	M85452	
		OHL Output Shaft (1)	8600	8730	8730	8730	8730	8730	8730	8730	320TC	M85478	
		OHL Input Shaft (1)	1496	1694	1810	1960	2208	2364	2570	2570	360TC	M85499	

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

On C-Face Reducers using motor Frame Size 320 and larger, the maximum input RPM is 2500.

Separate Reducers are limited to 3000 input RPM.

APG Reducers - Size 8

Single Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input								Frame Size	Model Number	
			2500	1750	1430	1170	870	720	580	100		C-Face	Separate
1.22	1.25	Output RPM	2000	1400	1140	935	700	575	465	80	250TC	*	R86040
		Output Torque, in-lb.	9645	9903	11435	11722	12126	12245	12602	14769	280TC	*	
		Output HP (Max.)	314	225	213	178	137	115	95.10	19.20	320TC	M85536	
		Input HP (Max.)	320	230	217	182	140	117	97.00	19.60	360TC	M85560	
		OHL Output Shaft (1)	2500	2900	2556	2557	2900	3134	3421	5087			
		OHL Input Shaft (1)	1208	1478	999	1106	1289	1482	1610	1610			
1.50	1.48	Output RPM	1690	1180	965	790	585	485	390	65	250TC	*	R86041
		Output Torque, in-lb.	10710	11965	12504	12749	13098	13382	13625	15843	280TC	*	
		Output HP (Max.)	283	221	189	158	121	102	83.60	16.80	320TC	M85537	
		Input HP (Max.)	289	226	193	161	123	104	85.30	17.10	360TC	M85561	
		OHL Output Shaft (1)	2700	2630	2700	2851	3300	3499	3806	5189			
		OHL Input Shaft(1)	1236	1104	1113	1251	1477	1606	1799	1799			
1.84	1.88	Output RPM	1300	930	760	620	460	380	310	53	250TC	*	R86042
		Output Torque, in-lb.	11910	13630	13669	13987	14238	14569	14833	17388	280TC	*	
		Output HP (Max.)	257	206	169	141	107	90.50	74.20	15.00	320TC	M85538	
		Input HP (Max.)	262	210	172	144	109	92.30	75.70	15.30	360TC	M85562	
		OHL Output Shaft (1)	3000	2650	3100	3286	3670	3900	4144	5288			
		OHL Input Shaft (1)	1023	800	957	1072	1345	1463	1654	1654			
2.25	2.27	Output RPM	1100	770	630	515	385	315	255	44	250TC	*	R86043
		Output Torque, in-lb.	12785	14135	14674	14728	15255	15518	15838	18483	280TC	*	
		Output HP (Max.)	225	174	148	122	93.60	78.80	64.80	13.00	320TC	M85539	
		Input HP (Max.)	230	178	151	124	95.50	80.40	66.10	13.30	360TC	M85563	
		OHL Output Shaft (1)	3200	3255	3400	3610	3959	4200	4467	5395			
		OHL Input Shaft (1)	1047	947	984	1205	1384	1537	1715	1715			
2.76	2.79	Output RPM	895	630	515	420	310	260	208	36	250TC	*	R86044
		Output Torque, in-lb.	13482	14584	14999	15276	15907	16218	16523	19065	280TC	*	
		Output HP (Max.)	194	147	123	103	79.70	67.20	55.20	11.00	320TC	M85540	
		Input HP (Max.)	198	150	126	105	81.30	68.60	56.30	11.20	360TC	M85564	
		OHL Output Shaft (1)	3400	3500	3800	3918	4257	4500	4642	5924			
		OHL Input Shaft (1)	977	950	1070	1213	1363	1502	1690	1690			
3.38	3.33	Output RPM	750	525	430	350	260	215	174	30	250TC	*	R86045
		Output Torque, in-lb.	13925	15009	15306	16142	16461	16734	17216	19136	280TC	*	
		Output HP (Max.)	164	123	103	88.80	67.30	56.60	46.90	9.00	320TC	M85541	
		Input HP (Max.)	167	126	105	90.60	68.70	57.80	47.90	9.18	360TC	M85565	
		OHL Output Shaft (1)	3682	3962	4100	4400	4660	4900	4735	5630			
		OHL Input Shaft (1)	1157	1194	1330	1298	1565	1724	1862	1862			
4.13	4.06	Output RPM	615	430	350	290	215	177	142	25	250TC	M85512	R86046
		Output Torque, in-lb.	14401	15320	16177	16128	16758	17164	17653	19380	280TC	M85524	
		Output HP (Max.)	138	103	88.80	72.40	56.00	47.40	39.30	7.44	320TC	M85542	
		Input HP (Max.)	141	105	90.60	73.90	57.10	48.40	40.10	7.59	360TC	M85566	
		OHL Output Shaft (1)	4044	3900	4438	4575	4659	4780	4838	5753			
		OHL Input Shaft (1)	1235	1340	1308	1563	1739	1862	2005	2005			
5.06	5.07	Output RPM	490	345	280	230	172	142	114	20	250TC	M85513	R86047
		Output Torque, in-lb.	14126	15234	15714	16107	16632	16929	17243	19283	280TC	M85525	
		Output HP (Max.)	111	83.60	70.50	59.10	45.40	38.20	31.40	6.05	320TC	M85543	
		Input HP (Max.)	113	85.30	71.90	60.30	46.30	39.00	32.00	6.17	360TC	M85567	
		OHL Output Shaft (1)	4375	4467	4553	4675	4770	4850	4959	5888			
		OHL Input Shaft (1)	1414	1470	1557	1678	1890	2048	2247	2247			

NOTE: Shaded Ratings are thermally limited. See page D2-84 for thermal capabilities.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

On C-Face Reducers using motor Frame Size 320 and larger, the maximum input RPM is 2500.

Separate Reducers are limited to 3000 input RPM.

* Made to Order

APG Reducers - Size 8

Double Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input								Frame Size	Model Number	
			2500	1750	1430	1170	870	720	580	100		C-Face	Separate
6.20	6.33	Output RPM	395	275	225	185	137	114	92	16			
		Output Torque, in-lb.	48016	49302	56925	58353	60365	60958	62736	73524	280TC	*	R86100
		Output HP (Max.)	307	221	208	175	134	112	93.10	18.80	320TC	M85544	
		Input HP (Max.)	320	230	217	182	140	117	97.00	19.60	360TC	M85568	
		OHL Output Shaft (1)	5800	6400	6100	6300	7000	7500	8000	12000			
		OHL Input Shaft (1)	1208	1478	999	1106	1289	1482	1610	1610			
7.59	7.51	Output RPM	330	235	190	156	116	96	77	13			R86101
		Output Torque, in-lb.	53086	59306	61979	63193	64925	66333	67538	78528	280TC	*	
		Output HP (Max.)	277	217	185	155	118	99.80	81.90	16.40	320TC	M85545	
		Input HP (Max.)	289	226	193	161	123	104	85.30	17.10	360TC	M85569	
		OHL Output Shaft (1)	5700	5800	6000	6400	7000	7700	8200	12000			
		OHL Input Shaft(1)	1236	1104	1113	1251	1477	1606	1799	1799			
9.30	9.53	Output RPM	260	184	150	123	91	76	61	10			R86102
		Output Torque, in-lb.	58970	67356	67680	69254	70498	72133	73440	86091	280TC	*	
		Output HP (Max.)	252	201	165	138	105	88.60	72.70	14.70	320TC	M85546	
		Input HP (Max.)	262	210	172	144	109	92.30	75.70	15.30	360TC	M85570	
		OHL Output Shaft (1)	5300	5000	5900	6300	7300	7700	8400	12000			
		OHL Input Shaft (1)	1023	800	957	1072	1345	1463	1654	1654			
11.4	11.52	Output RPM	215	152	124	102	76	63	50	8.70			R86103
		Output Torque, in-lb.	63401	70095	72769	73037	75647	76954	78538	91656	280TC	*	
		Output HP (Max.)	221	171	145	119	91.70	77.20	63.50	12.80	320TC	M85547	
		Input HP (Max.)	230	178	151	124	95.50	80.40	66.10	13.30	360TC	M85571	
		OHL Output Shaft (1)	5700	5700	6000	6400	7300	7800	8500	12000			
		OHL Input Shaft (1)	1047	947	984	1205	1384	1537	1715	1715			
14.0	14.14	Output RPM	177	124	101	83	62	51	41	7.10			R86104
		Output Torque, in-lb.	66847	72576	74369	75746	78873	80417	81929	94531	280TC	*	
		Output HP (Max.)	190	144	121	101	78.00	65.90	54.00	10.80	320TC	M85548	
		Input HP (Max.)	198	150	126	105	81.30	68.60	56.30	11.20	360TC	M85572	
		OHL Output Shaft (1)	5600	6000	6400	7000	7600	8300	9000	12000			
		OHL Input Shaft(1)	977	950	1070	1213	1363	1502	1690	1690			
17.1	16.89	Output RPM	148	104	85	69	52	43	34	5.90			R86105
		Output Torque, in-lb.	69072	74449	75924	80070	81651	83008	85395	94922	280TC	*	
		Output HP (Max.)	160	121	101	87.00	66.00	55.50	46.00	8.81	320TC	M85549	
		Input HP (Max.)	167	126	105	90.60	68.70	57.80	47.90	9.18	360TC	M85573	
		OHL Output Shaft (1)	6000	6400	7000	7100	8200	8000	9700	12000			
		OHL Input Shaft (1)	1157	1194	1330	1298	1565	1724	1862	1862			
20.9	20.55	Output RPM	122	85	70	57	42	35	28	4.90			R86106
		Output Torque, in-lb.	71422	75981	80232	79986	83113	85127	87553	96116	250TC	M85514	
		Output HP (Max.)	135	101	87.00	70.90	54.80	46.50	38.50	7.29	280TC	M85526	
		Input HP (Max.)	141	105	90.60	73.90	57.10	48.40	40.10	7.59	320TC	M85550	
		OHL Output Shaft (1)	6500	7000	7200	8000	9000	9700	10500	12000	360TC	M85574	
		OHL Input Shaft (1)	1235	1340	1308	1563	1739	1862	2005	2005			
25.6	25.67	Output RPM	97	68	56	46	34	28	23	3.90			R86107
		Output Torque, in-lb.	70065	75557	77939	79890	82494	83964	85523	95642	250TC	M85515	
		Output HP (Max.)	108	81.90	69.00	57.90	44.40	37.40	30.70	5.92	280TC	M85527	
		Input HP (Max.)	113	85.30	71.90	60.30	46.30	39.00	32.00	6.17	320TC	M85551	
		OHL Output Shaft (1)	7000	7800	8200	8700	10100	11000	12200	12000	360TC	M85575	
		OHL Input Shaft (1)	1414	1470	1557	1678	1890	2048	2247	2247			

NOTE: Shaded Ratings are thermally limited. See page D2-84 for thermal capabilities.

(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

On C-Face Reducers using motor Frame Size 320 and larger, the maximum input RPM is 2500.

Separate Reducers are limited to 3000 input RPM.

* Made to Order

SELECTION

APG Reducers - Size 8

Triple Reduction - C-Face and Separates

Ratio	Exact Ratio	Rating Data	RPM Input								Frame Size	Model Number	
			2500	1750	1430	1170	870	720	580	100		C-Face	Separate
31.4	31.98	Output RPM	78	55	45	37	27	23	18	3.10	210TC	*	R86148
		Output Torque, in-lb.	55120	59430	61382	63419	66691	69737	73745	100421	250TC	M85516	
		Output HP (Max.)	69.70	52.60	44.40	37.50	29.30	25.40	21.60	5.08	280TC	M85528	
		Input HP (Max.)	74.10	56	47.20	39.90	31.20	27.00	23.00	5.40	320TC	M85552	
		OHL Output Shaft (1)	9400	10000	10800	11700	12000	12000	12000	12000	360TC	M85576	
		OHL Input Shaft (1)	2506	2500	2639	2689	2764	2811	2865	2865			
38.4	38.18	Output RPM	65	46	37	31	23	19	15	2.60	210TC	*	R86149
		Output Torque, in-lb.	61305	65717	68479	70655	74340	77808	82062	95647	250TC	M85517	
		Output HP (Max.)	63.30	47.50	40.40	34.10	26.70	23.10	19.60	3.95	280TC	M85529	
		Input HP (Max.)	67.30	50.50	43.00	36.30	28.40	24.60	20.90	4.20	320TC	M85553	
		OHL Output Shaft (1)	9400	10300	11200	11950	12000	12000	12000	12000	360TC	M85577	
		OHL Input Shaft (1)	2516	2601	2650	2700	2776	2823	2879	2879			
47.1	46.46	Output RPM	54	38	31	25	19	15	12	2.20	210TC	*	R86150
		Output Torque, in-lb.	66940	71722	74703	77001	81111	84838	89446	94553	250TC	M85518	
		Output HP (Max.)	56.40	42.30	36.00	30.40	23.80	20.60	17.50	3.19	280TC	M85530	
		Input HP (Max.)	60.00	45.00	38.30	32.30	25.30	21.90	18.60	3.39	320TC	M85554	
		OHL Output Shaft (1)	9500	10700	11500	12000	12000	12000	12000	12000	360TC	M85578	
		OHL Input Shaft (1)	2527	2613	2662	2713	2789	2838	2893	2893			
57.7	58.04	Output RPM	43	30	25	20	15	12	10	1.70	210TC	*	R86151
		Output Torque, in-lb.	71040	78066	79294	80568	82440	84436	85974	93582	250TC	M85519	
		Output HP (Max.)	48.90	37.60	31.20	25.90	19.70	16.70	13.70	2.58	280TC	M85531	
		Input HP (Max.)	52.00	40.00	33.20	27.60	21.00	17.80	14.60	2.74	320TC	M85555	
		OHL Output Shaft (1)	10000	11200	12000	12000	12000	12000	12000	12000	360TC	M85579	
		OHL Input Shaft (1)	2539	2623	2675	2728	2808	2859	2919	2919			
70.6	71.67	Output RPM	35	24	20	16	12	10	8.10	1.40	180TC	M85504	R86152
		Output Torque, in-lb.	67442	72917	75191	79027	85599	89486	94426	94972	210TC	M85508	
		Output HP (Max.)	37.90	28.70	24.20	20.80	16.70	14.50	12.30	2.13	250TC	M85520	
		Input HP (Max.)	40.30	30.50	25.70	22.10	17.80	15.40	13.10	2.27	280TC	M85532	
		OHL Output Shaft (1)	11500	12000	12000	12000	12000	12000	12000	12000	320TC	M85556	
		OHL Input Shaft (1)	2506	2589	2638	2686	2757	2804	2858	2858	360TC	M85580	
86.5	85.57	Output RPM	29	20	17	14	10	8.40	6.80	1.20	180TC	M85505	R86153
		Output Torque, in-lb.	74596	82020	83479	87579	94223	98910	95401	99394	210TC	M85509	
		Output HP (Max.)	34.20	26.30	21.90	18.80	15.00	13.10	10.20	1.82	250TC	M85521	
		Input HP (Max.)	36.40	28	23.30	20.00	16.00	13.90	10.80	1.94	280TC	M85533	
		OHL Output Shaft (1)	11800	12000	12000	12000	12000	12000	12000	12000	320TC	M85557	
		OHL Input Shaft (1)	2517	2500	2650	2699	2771	2818	2885	2885	360TC	M85581	
105.9	104.11	Output RPM	24	17	14	11	8.40	6.90	5.60	0.96	180TC	M85506	R86154
		Output Torque, in-lb.	80808	87476	90379	93304	100238	95851	103735	95990	210TC	M85510	
		Output HP (Max.)	30.30	22.90	19.40	16.40	13.10	10.30	9.01	1.44	250TC	M85522	
		Input HP (Max.)	32.20	24.40	20.60	17.40	13.90	11.00	9.59	1.53	280TC	M85534	
		OHL Output Shaft (1)	12000	12000	12000	12000	12000	12000	12000	12000	320TC	M85558	
		OHL Input Shaft (1)	2528	2613	2663	2714	2788	2846	2900	2900	360TC	M85582	
129.7	130.07	Output RPM	19	13	11	9.00	6.70	5.50	4.50	0.77	180TC	M85507	R86155
		Output Torque in-lb.	82064	86059	90272	88003	90970	92313	94061	95280	210TC	M85511	
		Output HP (Max.)	25.10	18.40	15.80	12.60	9.68	8.13	6.67	1.17	250TC	M85523	
		Input HP (Max.)	26.70	19.60	16.80	13.40	10.30	8.65	7.10	1.24	280TC	M85535	
		OHL Output Shaft (1)	12000	12000	12000	12000	12000	12000	12000	12000	320TC	M85559	
		OHL Input Shaft (1)	2544	2632	2681	2737	2816	2869	2929	2929	360TC	M85583	

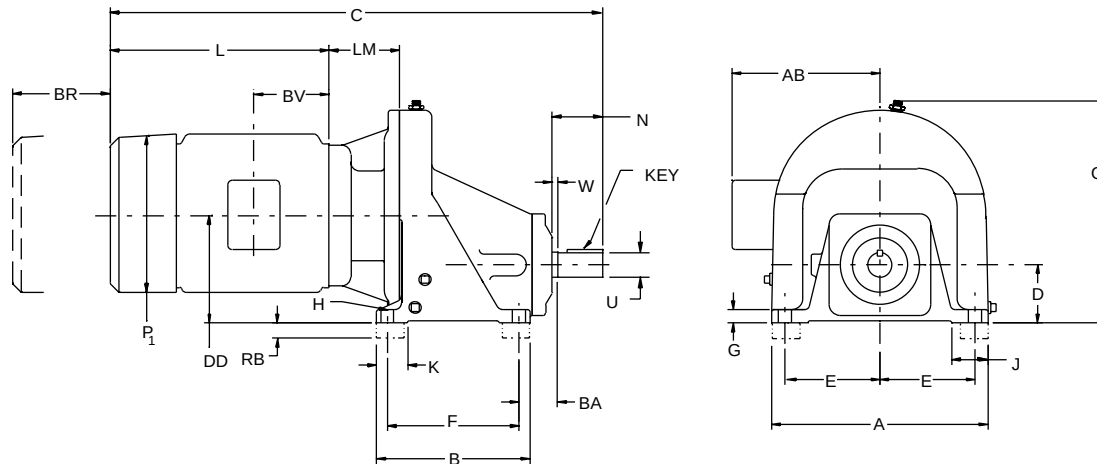
(1) At one shaft diameter from the shaft shoulder. Measured in lbs.

On C-Face Reducers using motor Frame Size 320 and larger, the maximum input RPM is 2500.

Separate Reducers are limited to 3000 input RPM.

* Made to Order

APG Gearmotors Single Reduction * - Sizes 3 and 4



Size	Red.	HP	A	B	C ★	D	E	F	G	H	J	K	L ★	N	O
3	Single	1, 1-1/2	8.25	6.62	20.65	2.51	3.56	5.62	0.63	0.44	1.56	1.38	8.52	2.63	8.50 •
		2			21.65								9.52		
		3			23.71								11.58		
		5			24.13								12.00		
		7-1/2			25.63								12.38		9.76
		10			27.25								13.87		10.38
4	Double	2	8.25	7.62	22.37	2.55	3.50	6.50	0.63	0.56	1.75	1.69	9.52	2.63	8.94 •
		3			24.43								11.58		
		5			24.85								12.00		
		7-1/2			26.35								12.38		10.20
		10			27.97								13.87		10.82
		20			31.03								16.62		11.82

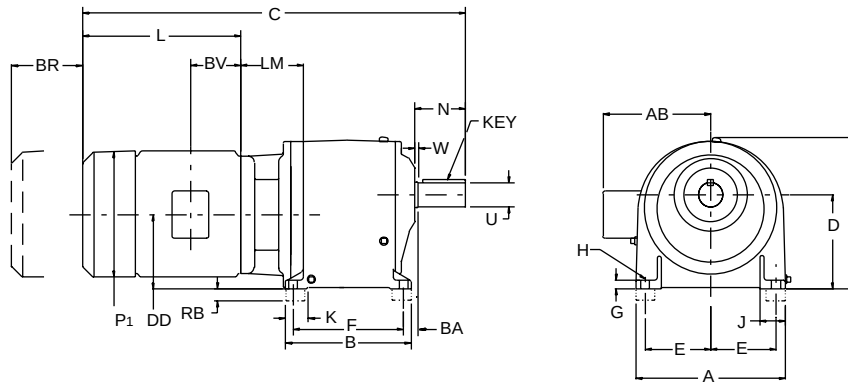
Size	Red.	HP	P1	W	AB	BA	BR w/brake	BV	DD	LM	RB †	U		Key	
												Min.	Max.	Square	Length
3	Single	1, 1-1/2	7.28	0.12	4.68 ■	1.66	5.40	4.29	4.38	2.88	NR	1.124	1.125	0.250	1.75
		2						5.29							
		3						7.35							
		5	7.98		7.28										
		7-1/2	9.25		9.62		4.25	4.00		0.50					
		10	10.50		9.43		4.56	4.13		1.25					
4	Double	2	7.28	0.12	4.68 ■	1.69	5.40	5.29	4.82	2.88	NR	1.124	1.125	0.250	1.75
		3						7.35							
		5						7.98							
		7-1/2	9.25		9.62		4.25	4.00							
		10	10.50		9.43		4.56	4.13		0.88					
		15			9.93										
		20	13.12		10.62		5.31	4.44		2.44					

- * All dimensions in inches
- Height of gearcase only, motor conduit box height may be greater.
- † Dimensions represent the height of the riser block that comes standard with the gearmotor.
- NR Indicates that riser block is not required.
- Conduit box is located on top of motor. Dimension shown is from center line of motor to top of conduit box.
- ★ Motor length subject to change. Please request dimension sheet if this is a critical dimension.

DIMENSIONS

APG Gearmotors

Double, Triple Reduction * - Sizes 3 and 4



Size	Red.	HP	A	B	C ★	D	E	F	G	H	J	K	L ★	N	O
3	Double	1, 1-1/2	8.25	8.00	21.46	5.37	3.56	7.00	0.63	0.44	1.50	1.38	8.52	2.63	8.75 •
		2			22.46								9.52		
		3			24.52								11.58		
		5			24.94								12.00		
		7-1/2			26.45								12.38		9.76
		10			28.07								13.87		10.39
	Triple	1/4 thru 1-1/2	8.25	8.00	22.15	5.37	3.56	7.00	0.63	0.44	1.50	1.38	8.52	2.63	8.75 •
		2			23.15								9.52		
		2			23.81								9.52		
		3			25.87								11.58		
4	Double	5	8.25	9.00	26.29	6.17	3.50	7.88	0.63	0.56	1.75	1.69	12.00	3.39	10.03 •
		7-1/2			27.80								12.38		
		10			29.42								13.87		
		15			29.41								16.62		
		20			32.48								16.62		
		1/2-1-1/2			23.56								8.52		
	Triple	2	8.25	9.00	24.56	6.17	3.50	7.88	0.63	0.56	1.75	1.69	9.52	3.39	10.03 •
		3			26.62								11.58		
		2			23.81								9.52		
		3			25.87								11.58		

Size	Red.	HP	P [†]	W	AB	BA	BR w/brake	BV	DD	LM	RB †	U		Key	
												Min.	Max.	Square	Length
3	Double	1, 1-1/2	7.28	0.12	4.68 ■	1.07	5.40	4.29	4.39	2.88	NR	1.249	1.250	0.250	1.75
		2			6.29 ■			5.29							
		3			7.81			7.35							
		5			8.69			7.28							
		7-1/2			9.62			4.25							
		10			10.50			4.56							
	Triple	1/4 thru 1-1/2	7.28	0.12	4.68 ■	1.07	5.40	4.29	4.39	2.88	NR	1.249	1.250	0.250	1.75
		2			5.29			5.29							
		3			6.29 ■			7.35							
		5			7.81			7.28							
4	Double	7-1/2	9.25	0.13	8.69	0.98	5.40	4.25	4.82	2.88	NR	1.624	1.625	0.375	2.75
		10			10.06			4.56							
		15			10.62			5.31							
		20			10.62			5.31							
		1/2-1-1/2			4.29			4.29							
		2			5.29			5.29							
	Triple	3	7.28	0.13	4.68 ■	0.98	5.40	7.35	4.82	2.88	NR	1.624	1.625	0.375	2.75
		2			5.29			5.29							
		3			7.81			7.28							
		5			8.69			7.28							

* All dimensions in inches

• Height of gearcase only, motor conduit box height may be greater.

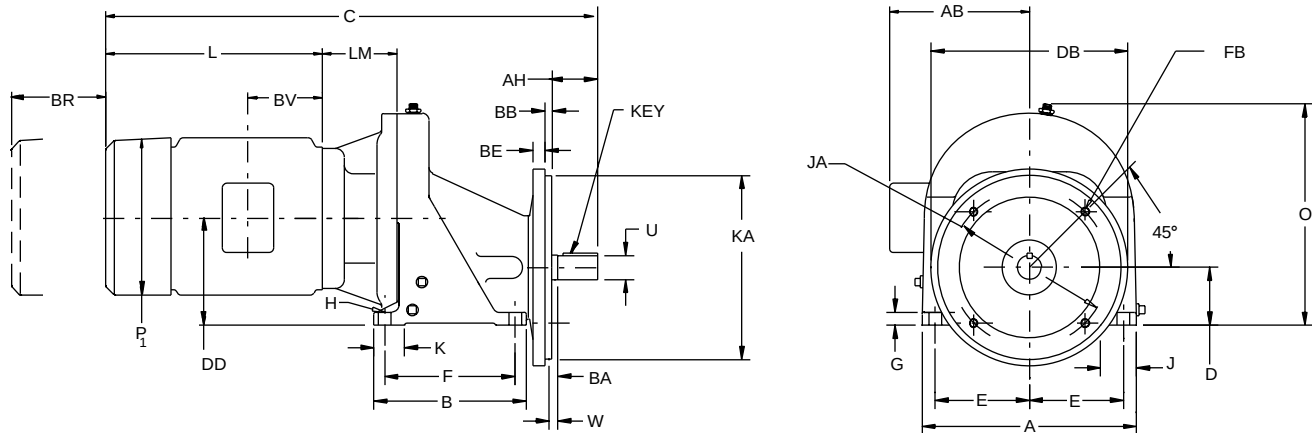
† Dimensions represent the height of the riser block that comes standard with the gearmotor.

NR Indicates that riser block is not required.

■ Conduit box is located on top of motor. Dimension shown is from center line of motor to top of conduit box.

★ Motor length subject to change. Please request dimension sheet if this is a critical dimension.

APG Gearmotors With Flanged Output Single Reduction * - Sizes 3 and 4



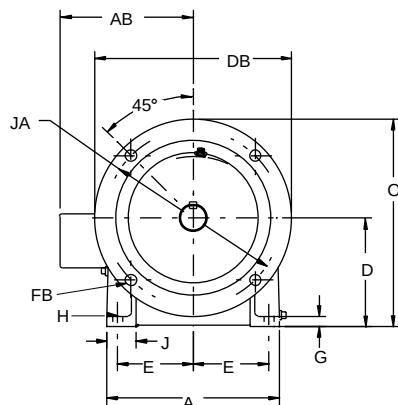
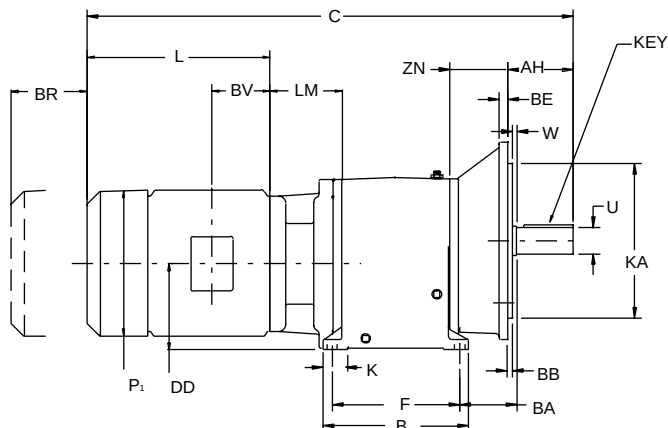
Size	HP	A	B	C ★	D	E	F	G	H	J	K	L ★	O	P'	W ▲	AB	AH
3	1, 1-1/2	8.25	6.62	20.65	2.51	3.56	5.62	0.63	0.44	1.56	1.38	8.52	8.50 •	7.28	0.12	4.68 ■	2.63
	2			21.65								9.52					
	3			23.71								11.58					
	5			24.13								12.00		7.98		6.29 ■	
	7-1/2			25.63								12.38		9.25		7.81	
	10			27.25								13.87		10.50		8.69	
4	2	8.25	7.62	22.37	2.55	3.50	6.50	0.63	0.56	1.75	1.69	9.52	8.94	7.28	0.12	4.68 ■	2.63
	3			24.43								11.58					
	5			24.85								12.00		7.98		6.29 ■	
	7-1/2			26.35								12.38		9.25		7.81	
	10			27.97								13.87		10.50		8.69	
	15			31.03								16.62		13.12		10.06	

Size	HP	BA	BB	BE	BR w/ brake	BV	DB	DD	FB	No. of Holes	JA	KA	LM	ZN	U		Key	
															Min.	Max.	Sq.	Length
3	1, 1-1/2	1.66	0.25	0.62	5.40	4.29	9.00	4.38	1/2-13 THD	4	7.25	8.50	2.88	-	1.124	1.125	0.250	1.75
	2					5.29												
	3					7.35												
	5					7.28												
	7-1/2					9.62							4.00					
	10					9.43							4.13					
4	2	1.69	0.25	0.62	5.40	5.29	9.00	4.82	1/2-13 THD	4	7.25	8.50	2.88	-	1.124	1.125	0.250	1.75
	3					7.35												
	5					7.28												
	7-1/2					9.62							4.00					
	10					9.43							4.13					
	15					9.93							4.44					

- * All dimensions in inches
- Height of gearcase only, motor conduit box height may be greater.
- ▲ Dimensions in parentheses indicate negative values.
- Conduit box is located on top of motor. Dimension shown is from center line of motor to top of conduit box.
- ★ Motor length subject to change. Please request dimension sheet if this is a critical dimension.

DIMENSIONS

APG Gearmotors With Flanged Output Double, Triple Reduction* - Sizes 3 and 4

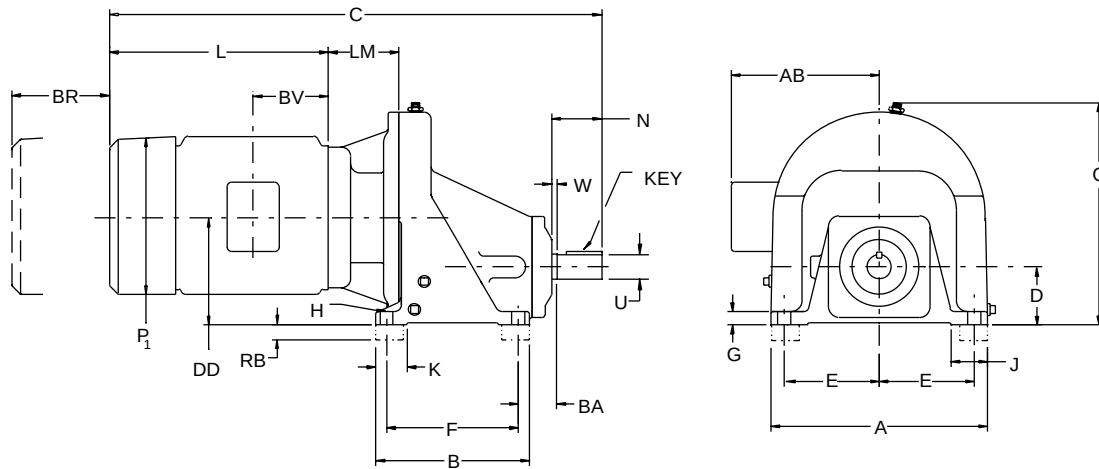


Size	Red.	HP	A	B	C ★	D	E	F	G	H	J	K	L ★	O	P1	W▲	AB	AH
3	Double	1, 1-1/2	8.25	8.00	23.65	5.37	3.56	7.00	0.63	0.44	1.50	1.38	8.52	10.29 •	7.28	(0.25)	4.68 ■	3.31
		2			24.65								9.52					
		3			26.71								11.58					
		5			27.13								12.00		7.98		6.29 ■	
		7-1/2			28.63								12.38		10.29		7.81	
		10			30.25								13.87		10.39		8.69	
	Trpl	1/4-1-1/2	8.25	8.00	24.34	5.37	3.56	7.00	0.63	0.44	1.50	1.38	8.52	10.29	7.28	(0.25)	4.68	3.31
		2			25.34								9.52					
		3			27.84								11.58		7.98		6.29 ■	
		5			28.26								12.00		10.29		7.81	
4	Double	2	8.25	9.00	25.78	6.17	3.50	7.88	0.63	0.56	1.75	1.69	9.52	11.67 •	7.28	0.06	4.68 ■	4.00
		3			27.84								11.58					
		5			28.26								12.00		7.98		6.29 ■	
		7-1/2			29.76								12.38		9.25		7.81	
		10			31.38								13.87		10.50		8.69	
		15			34.44								16.62		11.82		10.08	
	Triple	1/2-1-1/2	8.25	9.00	25.53	6.17	3.50	7.88	0.63	0.56	1.75	1.69	8.52	11.67 •	7.28	0.06	4.68 ■	4.00
		2			26.53								9.52					
		3			28.59								11.58		10.50		8.69	
		5			31.38								13.87		11.82		10.08	

Size	HP	BA	BB	BE	BR w/ brake	BV	DB	DD	FB	No. of Holes	JA	KA	LM	ZN	U		Key	
															Min.	Max.	Sq.	Length
3	1, 1-1/2	2.38	0.19	0.50	5.40	4.29	9.84	4.39	0.531	4	8.50	7.13	2.88	2.94	1.374	1.375	0.313	2.38
	2					5.29												
	3					7.35												
	5					7.28												
	7-1/2					9.62												
	10					4.25												
	1/4-1-1/2					4.56												
4	2	2.44	0.19	0.50	5.29	4.29	9.84	4.39	0.531	4	8.50	7.13	2.88	2.94	1.374	1.375	0.313	2.38
	3					5.29												
	5					7.35												
	7-1/2					7.28												
	10					9.62												
	15					4.25												
	20					4.56												
	1/2-1-1/2	2.44	0.19	0.50	5.40	4.29	11.00	4.82	0.531	4	10.00	9.00	2.88	2.88	1.624	1.625	0.375	2.75
	2					5.29												
	3					7.35												
	5					7.28												

- * All dimensions in inches
- Height of gearcase only, motor conduit box height may be greater.
- ▲ Dimensions in parentheses indicate negative values.
- Conduit box is located on top of motor. Dimension shown is from center line of motor to top of conduit box.
- ★ Motor length subject to change. Please request dimension sheet if this is a critical dimension.

APG Gearmotors Single Reduction * - Sizes 5 and 6



Size	Red.	HP	A	B	C ★	D	E	F	G	H	J	K	L ★	N	O
5	Single	3	12.25	8.69	25.99	3.30	5.38	7.44	0.75	0.72	2.06	1.75	11.58	2.85	12.25 •
		5			26.41								12.00		12.25
		7-1/2			27.91								12.38		
		10, 15			29.53								13.87		
		20			32.59								16.62		13.12
		25, 30			34.92								18.76		13.87
6	Single	7-1/2	12.25	10.44	29.82	4.21	5.13	8.62	1.00	0.88	2.44	2.56	12.38	3.62	13.75
		10, 15			31.44								13.87		14.60
		20			34.50								16.62		15.35
		25, 30			36.83								18.76		16.29
		40, 50			39.76								21.19		17.73
		60, 75			42.94								23.25		

Size	Red.	HP	P1	W	AB	BA	BR w/brake	BV	DD	LM	RB †	U		Key				
												Min.	Max.	Square	Length			
5	Single	3	7.28	0.06	4.68 ■	1.97	5.40	7.35	6.10	2.88	NR	1.374	1.375	0.313	2.00			
		5	7.98		6.29 ■			7.28										
		7-1/2	9.25		7.81			4.25										
		10	10.50		8.69			9.43		4.56						4.13		
		15						10.62								5.31	4.44	1.25
		20						13.12								12.12	6.13	4.63	2.00
		25, 30	14.62		12.06													
6	Single	7-1/2	9.25	0.12	7.81	2.31	9.62	4.25	7.60	4.00	NR	1.749	1.750	0.375	2.75			
		10	10.50		8.69			9.43		4.56						4.13		
		15						10.62								5.31	4.44	
		20						13.12								12.12	6.13	4.63	0.41
		25, 30	14.62		14.12			15.44		7.26						5.13	1.31	
		40, 50	16.62		17.94			15.82		7.63						6.25	2.75	
		60, 75	19.50															

* All dimensions in inches

• Height of gearcase only, motor conduit box height may be greater

† Dimensions represent the height of the riser block that comes standard with the gearmotor.

NR indicates that riser block is not required.

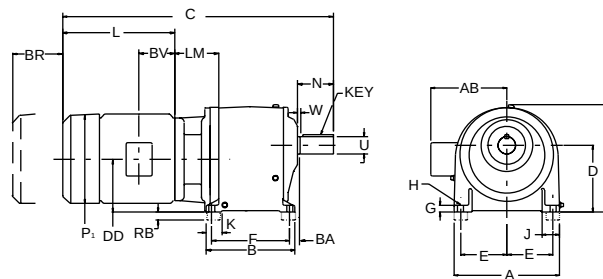
■ Conduit box is located on top of motor. Dimension shown is from center line of motor to top of conduit box.

★ Motor length subject to change. Please request dimension sheet if this is a critical dimension.

DIMENSIONS

APG Gearmotors

Double, Triple Reduction * - Sizes 5 and 6



Size	Red.	HP	A	B	C ★	D	E	F	G	H	J	K	L ★	N	O
5	Double	3	12.25	10.31	27.29	7.74	5.38	9.06	0.74	0.72	2.06	1.75	11.58	4.13	12.29 •
		5			28.32								12.00		
		7-1/2			29.82								12.38		
		10, 15			31.44								13.87		
		20			34.50								16.62		
		25, 30			36.83								18.76		
	Triple	3/4 - 1-1/2	12.25	10.31	25.71	7.74	5.38	9.06	0.74	0.72	2.06	1.75	8.52	4.13	12.29 •
		2			26.71								9.52		
		3			28.77								11.58		
		5			29.19								12.00		
		7-1/2			30.70								12.38		
		7-1/2			32.07								12.38		
		10, 15			33.69								13.87		
		20			36.75								16.62		
6	Double	25, 30	12.00	12.88	39.08	9.85	5.13	11.00	1.00	0.88	2.44	2.56	18.76	4.87	15.66
		40, 50			42.01								21.19		
		60, 75			45.19								23.25		
		1-1/2			28.11								8.52		
		2			29.11								9.52		
		3			31.17								11.58		
	Triple	5	12.00	12.88	31.59	9.85	5.13	11.00	1.00	0.88	2.44	2.56	12.00	4.87	15.66 •
		7-1/2			33.09								12.38		
		10			34.71								13.87		
		15													
		1-1/2			28.11								8.52		
		2			29.11								9.52		
		3			31.17								11.58		
		5			31.59								12.00		

Size	Red.	HP	P ¹	W	AB	BA	BR w/brake	BV	DD	LM	RB †	U		Key	
												Min.	Max.	Square	Length
5	Double	3	7.28	0.15	4.68 ■	1.08	5.40	7.35	6.10	2.88	NR	1.999	2.000	0.500	3.50
		5	7.98		6.29 ■		9.62	7.28		4.00					
		7 1/2	9.25		7.81		9.43	4.25		4.13					
		10, 15	10.50		8.69		10.62	4.56		4.44					
		20	13.12		10.08		12.12	5.31		4.63					
		25, 30	14.62		12.06			6.13		4.63					
	Triple	3/4-1-1/2		0.15		1.08	5.40	4.29	6.10	2.88	NR	1.999	2.000	0.500	3.50
		2	7.28		4.68 ■			5.29							
		3			6.29 ■			7.35							
		5	7.98		7.81		9.62	7.28		4.00					
6	Double	7-1/2	9.25	0.12	7.81	1.00	9.62	4.25	7.60	4.00	NR	2.374	2.375	0.625	4.00
		10			8.69		9.43	4.56		4.13					
		15	10.50		10.06		9.93			4.44					
		20	13.12		12.06		10.62	5.31		4.63					
		25, 30	14.62		14.12		12.12	6.13		4.63					
		40, 50	16.62		17.94		15.44	7.26		5.13					
		60, 75	19.50				15.82	7.63		6.25					
	Triple	1-1/2		0.12		1.00	5.40	4.29	7.60	2.88	NR	2.374	2.375	0.625	4.00
		2	7.28		4.68 ■			5.29							
		3			6.29 ■			7.35							
		5	7.98		7.81		9.62	7.28		4.00					
		7 1/2	9.25				9.43	4.25							
		10			8.69			4.56		4.13					
		15	10.50				9.93			4.44					
							10.62	5.31		4.63					

* All dimensions in inches

• Height of gearcase only, motor conduit box height may be greater

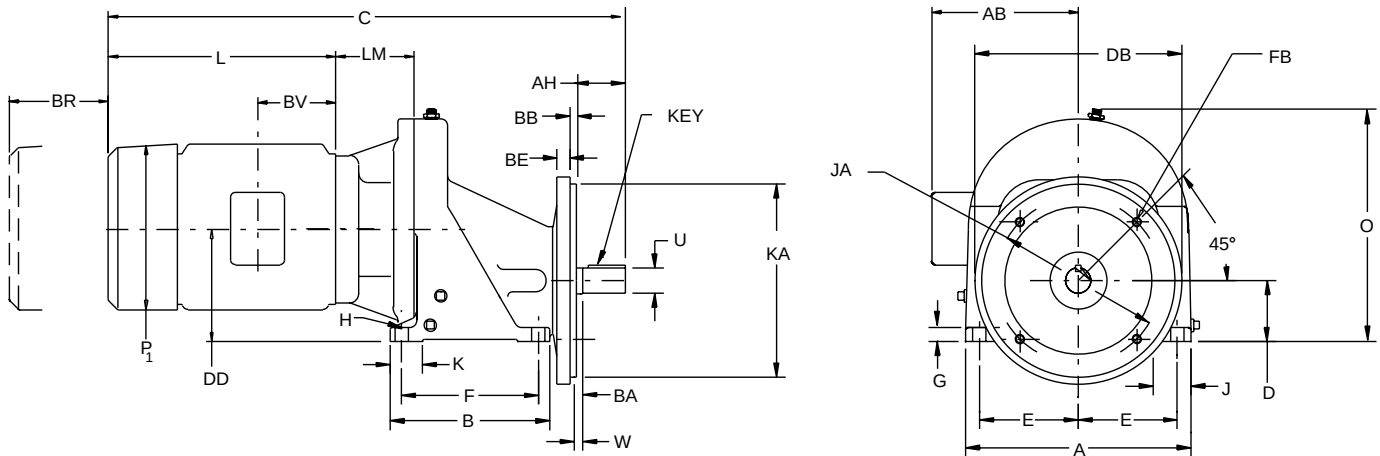
† Dimensions represent the height of the riser block that comes standard with the gearmotor.

NR indicates that riser block is not required.

■ Conduit box is located on top of motor. Dimension shown is from center line of motor to top of conduit box.

★ Motor length subject to change. Please request dimension sheet if this is a critical dimension.

APG Gearmotors With Flanged Output Single Reduction * - Sizes 5 and 6



Size	Red.	HP	A	B	C ★	D	E	F	G	H	J	K	L ★	O	P1	W ▲	AB	AH
5	Single	3	12.25	8.69	25.99	3.30	5.38	7.44	0.75	0.72	2.06	1.75	11.58	12.25 •	7.28	0.06	4.68 ■	2.77
		5			26.41								12.00		7.98		6.29 ■	
		7-1/2			27.91								12.38		9.25		7.81	
		10			29.53								13.87		10.50		8.69	
		15			32.59								16.62		13.12		10.06	
		20			34.92								18.76		13.87		12.06	
6	Single	25, 30	12.25	10.44	29.82	4.21	5.13	8.62	1.00	0.88	2.44	2.56	12.38	13.75	9.25	0.00	7.81	3.50
		7-1/2			31.44								13.87		10.50		8.69	
		10, 15			34.50								16.62		13.12		10.06	
		20			36.83								18.76		15.35		12.06	
		25, 30			39.76								21.19		16.29		14.12	
		40, 50			42.94								23.25		17.73		17.94	

Size	Red.	HP	BA	BB	BE	BR w/ brake	BV	DB	DD	FB	No. of Holes	JA	KA	LM	ZN	U		Key	
																Min.	Max.	Sq.	Length
5	Single	3	1.97	0.25	0.94	5.40	7.35	11.25	6.10	1/2-13 THD	4	9.00	10.50	2.88	-	1.374	1.375	0.313	2.00
		5					7.28												
		7-1/2					9.62												
		10					9.43												
		15					9.93												
		20					10.62												
6	Single	25, 30	2.31	0.25	0.94	12.12	6.13	14.00	7.60	5/8-11 THD	4	11.00	12.50	4.63	-	1.749	1.750	0.375	2.75
		7-1/2					9.62												
		10					9.43												
		15					9.43												
		20					10.62												
		25, 30					12.12												

* All dimensions in inches

• Height of gearcase only, motor conduit box height may be greater

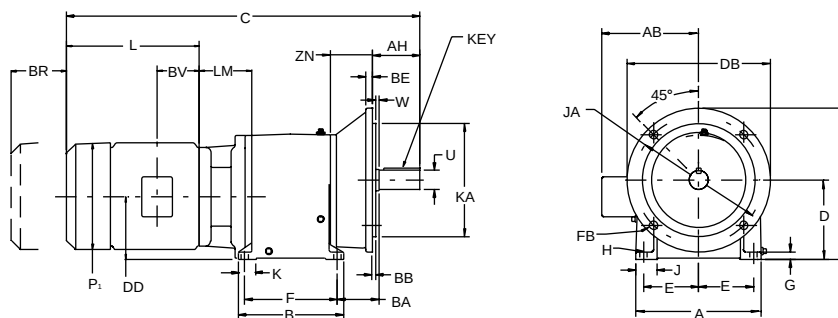
▲ Dimensions in parentheses indicate negative values

■ Conduit box is located on top of motor. Dimension shown is from center line of motor to top of conduit box

★ Motor length subject to change. Please request dimension sheet if this is a critical dimension.

DIMENSIONS

APG Gearmotors With Flanged Output Double, Triple Reduction * - Sizes 5 and 6

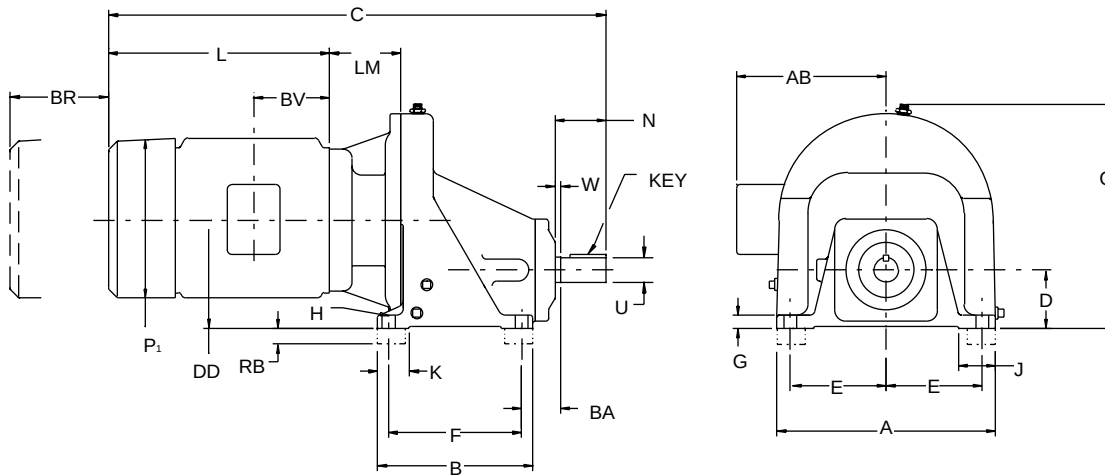


Size	Red.	HP	A	B	C ★	D	E	F	G	H	J	K	L ★	O	P ¹	W ▲	AB	AH
5	Double	3	12.25	10.31	30.88	7.74	5.38	9.06	0.74	0.72	2.06	1.75	11.58	14.74 •	7.28	(0.19)	4.68 ■	4.62
		5			31.30								12.00		7.98		6.29 ■	
		7-1/2			32.81								12.38		9.25		7.81	
		10			34.42								13.87		10.50		8.69	
		15			37.49								16.62		13.12		10.06	
		20			39.81								18.76		14.62		12.06	
	Triple	3/4-1-1/2	12.25	10.31	28.70	7.74	5.38	9.06	0.74	0.72	2.06	1.75	8.52	14.74 •	7.28	(0.19)	4.68 ■	4.62
		2			29.70								9.52		9.25		6.29 ■	
		3			31.76								11.58		7.98		7.81	
		5			32.18								12.00		9.25		8.69	
		7-1/2			33.68								12.38		10.50		10.06	
		10			35.76								12.38		13.12		12.06	
6	Double	10	12.00	12.88	37.38	9.85	5.13	11.00	1.00	0.88	2.44	2.56	13.87	18.85	10.50	0.07	8.69	5.88
		15			37.37								16.62		13.12		10.06	
		20			40.44								18.76		14.62		12.06	
		25, 30			42.76								21.19		16.62		14.12	
		40, 50			45.69								23.25		19.50		17.94	
		60, 75			48.88								23.25		19.50		17.94	
	Triple	1-1/2	12.00	12.88	31.79	9.85	5.13	11.00	1.00	0.88	2.44	2.56	8.52	18.85 •	7.28	0.07	4.68 ■	5.88
		2			32.79								9.52		9.25		6.29 ■	
		3			34.85								11.58		7.98		7.81	
		5			35.27								12.00		9.25		8.69	
		7-1/2			36.78								12.38		10.50		10.06	
		10			38.40								13.87		13.12		12.06	

Size	Red.	HP	BA	BB	BE	BR	BV	DB	DD	FB	No. Of Holes	JA	KA	LM	ZN	U		KEY	
																Min.	Max.	Sq.	Length
5	Double	3	3.43	.19	.63	5.40	7.35	14.00	6.10	0.812	4	12.50	11.00	2.88	4.12	1.874	1.875	0.500	3.50
		5					7.28							4.00					
		7-1/2					9.62							4.13					
		10					9.43							4.44					
		15					10.62							4.63					
		20					12.12							4.63					
	Triple	3/4-1-1/2	3.43	.19	.63	5.40	4.29	14.00	6.10	0.812	4	12.50	11.00	2.88	4.12	1.874	1.875	0.500	3.50
		2					5.29							4.00					
		3					7.35							4.13					
		5					7.28							4.44					
		7-1/2					9.62							4.63					
		10					9.43							4.63					
6	Double	15	3.79	.19	.75	10.62	5.31	18.00	7.60	0.812	4	16.00	14.00	4.44	4.56	2.374	2.375	0.625	4.00
		20					5.31							4.63					
		25, 30					6.13							5.13					
		40, 50					7.26							6.25					
		60, 75					7.63							6.25					
		1-1/2					4.29							2.88					
	Triple	2	3.79	.19	.75	5.40	5.29	18.00	7.60	0.812	4	16.00	14.00	2.88	4.56	2.374	2.375	0.625	4.00
		3					7.35							4.00					
		5					7.28							4.13					
		7-1/2					9.62							4.63					
		10					9.43							4.63					
		15					9.93							4.63					

- * All dimensions in inches
- Height of gearcase only, motor conduit box height may be greater
- ▲ Dimensions in parentheses indicate negative values
- Conduit box is located on top of motor. Dimension shown is from center line of motor to top of conduit box
- ★ Motor length subject to change. Please request dimension sheet if this is a critical dimension.

APG Gearmotors Single Reduction * - Sizes 7 and 8



Size	Red.	HP	A	B	C ★	D	E	F	G	H	J	K	L ★	N	O
7	Single	15	18.25	12.50	34.06	6.62	7.81	10.12	1.38	1.31	3.38	3.00	13.87	4.50	20.06
		20			37.12								16.62		
		25, 30			39.45								18.76		
		40, 50			42.38								21.19		
		60, 75			45.56								23.25		21.07
		100			49.25								25.69		23.25
		125			54.06								30.00		23.32
8	Double	25, 30	18.25	14.25	41.92	6.15	7.81	11.88	1.75	1.31	3.50	3.75	18.76	5.62	20.44
		40, 50			44.85								21.19		21.55
		60, 75			48.03								23.25		22.73
		100			51.72								25.69		23.83
		125-200			56.53								30.00		23.83

Size	Red.	HP	P ¹	W	AB	BA	BR w/brake	BV	DD	LM	RB †	U		Key	
												Min.	Max.	Square	Length
7	Single	15	10.50	0.161	8.69	3.00	9.93	4.56	10.94	4.13	NR	2.249	2.250	0.500	3.50
		20	13.12		10.06		10.62	5.31		4.44					
		25, 30	14.62		12.06		12.12	6.13		4.63					
		40, 50	16.62		4.12		15.44	7.26		5.13					
		60, 75	19.50		17.94		15.82	7.63		6.25					
		100	22.50		19.31		16.62	8.13		7.50	0.62				
		125	25.25		23.38		15.88	9.63		8.00	1.75				
8	Double	25, 30	14.62	0.16	12.06	3.00	12.12	6.13	11.42	4.63	NR	2.749	2.750	0.625	5.00
		40, 50	16.62		14.12		15.44	7.26		5.13					
		60, 75	19.50		17.94		15.82	7.63		6.25					
		100	22.50		19.31		16.62	8.13		7.50	0.62				
		125	25.25		23.38		15.88	9.63		8.00	1.75				
		150,200					16.88								

* All dimensions in inches

† Dimensions represent the height of the riser block that comes standard with the gearmotor.

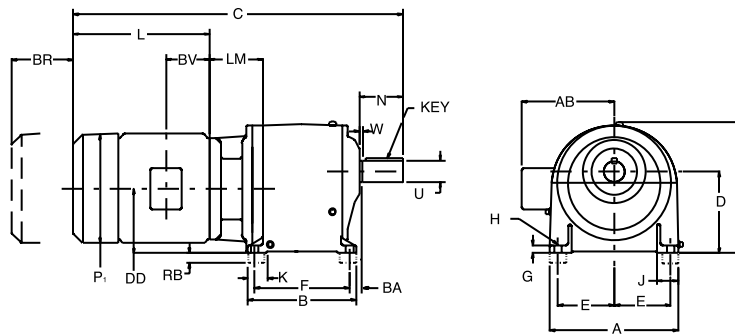
NR indicates that riser block is not required.

★ Motor length subject to change. Please request dimension sheet if this is a critical dimension.

DIMENSIONS

APG Gearmotors

Double, Triple Reduction * - Sizes 7 and 8



Size	Red.	HP	A	B	C ★	D	E	F	G	H	J	K	L ★	N	O
7	Double	15	18.25	16.12	36.95	13.92	7.81	13.75	1.38	1.31	3.31	3.44	13.87	5.94	21.65
		20			40.01								16.62		
		25, 30			42.34								18.76		
		40, 50			45.27								21.19		
		60, 75			48.46								23.25		
		100			52.15								25.69		22.26
		125			56.96								30.00		23.33
	Triple	7-1/2	18.25	16.12	36.54	13.92	7.81	13.75	1.38	1.31	3.31	3.44	12.38	5.94	21.65
		10, 15			38.15								13.87		
		20			41.22								16.62		
		25, 30			43.54								18.76		
		25, 30			46.90								18.76		
		40, 50			49.83								21.19		
		60, 75			53.02								23.25		
8	Double	100	18.25	18.62	56.71	15.21	7.81	16.16	1.75	1.31	3.44	3.75	25.69	7.48	24.36
		125-200			61.52								30.00		
		7-1/2			41.35								12.38		
		10, 15			42.97								13.87		
		20			46.03								16.62		
		25, 30			48.36								18.76		
		40, 50			51.29								21.19		
	Triple	60, 75	18.25	18.62	54.47	15.21	7.81	16.16	1.75	1.31	3.44	3.75	23.25	7.48	24.36
		7-1/2			41.35								12.38		
		10, 15			42.97								13.87		
		20			46.03								16.62		
		25, 30			48.36								18.76		
		40, 50			51.29								21.19		
		60, 75			54.47								23.25		

Size	Red.	HP	P [†]	W	AB	BA	BR w/brake	BV	DD	LM	RB †	U		Key	
												Min.	Max.	Square	Length
7	Double	15	10.50	0.191	8.69	0.87	9.93	4.56	10.95	4.13	NR	2.874	2.875	0.750	.500
		20	13.12		10.06		10.62	5.31		4.44					
		25, 30	14.62		12.06		12.12	6.13		4.63					
		40, 50	16.62		14.12		15.44	7.26		5.13					
		60, 75	19.50		17.84		15.82	7.63		6.25					
		100	22.50		19.31		16.62	8.13		7.50	0.62				
		125	25.25		23.38		15.88	9.63		8.00	1.75				
	Triple	7-1/2	9.25	0.190	7.81	0.87	9.62	4.25	10.95	4.00	NR	2.874	2.875	0.750	5.00
		10	10.50		8.69		9.43	4.56		4.13					
		15	13.12		10.06		9.93	5.31		4.44					
		20	14.62		12.06		10.62	6.13		4.63					
		25, 30	16.62		14.12		12.12	7.26		5.13					
		40, 50	19.50		17.84		15.44	8.13		6.25					
		60, 75	22.50		19.31		15.82	9.63		7.50	0.62				
8	Double	125	25.25	0.230	23.38	1.61	15.88	9.63	11.42	8.00	NR	3.624	3.625	0.875	6.00
		150,200	25.25		23.38		16.88	9.63		8.00					
		7-1/2	9.25		7.81		9.62	4.25		4.00					
		10	10.50		8.69		9.43	4.56		4.13					
		15	13.12		10.06		9.93	5.31		4.44					
		20	14.62		12.06		10.62	6.13		4.63					
		25, 30	16.62		14.12		12.12	7.26		5.13					
	Triple	40, 50	19.50		17.84		15.44	8.13		6.25					
		60, 75	22.50		19.31		15.82	9.63		7.50	0.62				
		125	25.25		23.38		15.88	9.63		8.00	1.75				
		7-1/2	9.25		7.81		9.62	4.25		4.00	NR	3.624	3.625	0.875	6.00
		10	10.50		8.69		9.43	4.56		4.13					
		15	13.12		10.06		9.93	5.31		4.44					
		20	14.62		12.06		10.62	6.13		4.63					
		25, 30	16.62		14.12		12.12	7.26		5.13					
		40, 50	19.50		17.84		15.44	8.13		6.25					
		60, 75	22.50		19.31		15.82	9.63		7.50	0.62				

* All dimensions in inches

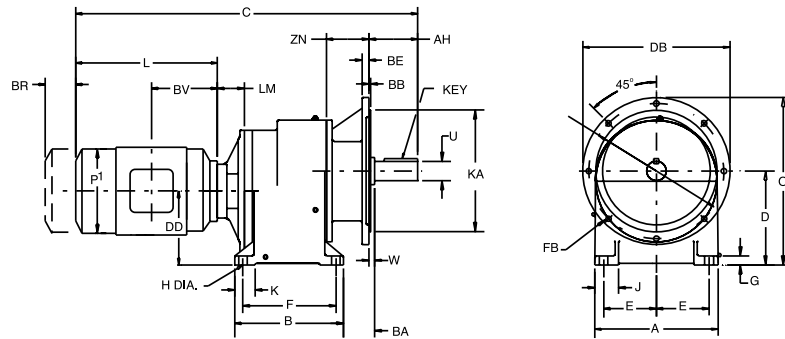
† Dimensions represent the height of the riser block that comes standard with the gearmotor.

NR indicates that riser block is not required.

★ Motor length subject to change. Please request dimension sheet if this is a critical dimension.

APG Gearmotors With Flanged Output

Double, Triple Reduction * - Sizes 7 and 8



Size	Red.	HP	A	B	C ★	D	E	F	G	H	J	K	L ★	N	O
7	Double	15	18.25	16.12	36.95	13.92	7.81	13.75	1.36	1.31	3.31	3.44	13.87	5.94	21.65
		20			40.01								16.62		
		25, 30			42.34								18.76		
		40, 50			45.27								21.19		
		60, 75			48.46								23.25		
		100			52.15								25.69		22.26
	Triple	125			56.96								30.00		23.33
		7-1/2			36.54	13.92	7.81	13.75	1.36	1.31	3.31	3.44	12.38	5.94	21.65
		10, 15			38.15								13.87		
		20			41.22								16.62		
		25, 30			43.54								18.76		
		125-200			61.52								30.00		
8	Double	25, 30	18.25	18.62	46.9	15.09	7.81	16.16	1.75	1.31	3.44	3.75	18.76	7.48	24.36
		40, 50			49.83								21.19		
		60, 75			53.02								23.25		
		100			56.71								25.69		
		125-200			61.52								30.00		
	Triple	7-1/2			41.35	15.09	7.81	16.16	1.75	1.31	3.44	3.75	12.38	7.48	24.36
		10, 15			42.97								13.87		
		20			46.03								16.62		
		25, 30			48.36								18.76		
		40, 50			51.29								21.19		
		60, 75			54.47								23.25		

Size	Red	HP	P1	W	AB	BA	BR w/ Brake	BV	DD	LM	RB‡	Min	Mx	Square	Length	
7	Double	15	10.50	0.19	8.69	0.94	9.93	4.56	10.95	4.13	NR	2.874	2.875	0.75	5.00	
		20	13.12		10.06		10.62	5.31		4.44						
		25, 30	14.62		12.06		12.12	6.13		4.63						
		40, 50	16.62		14.12		15.44	7.26		5.13						
		60, 75	19.50		17.84		15.82	7.63		6.25						
		100	22.50		19.31		16.62	8.13		7.50	0.62					
	125		23.38	15.88	9.63	8.00	1.75									
	Triple	7-1/2	9.25	0.19	7.81	0.94	9.62	4.25	10.95	4.00	NR	2.874	2.875	0.75	5.00	
		10	10.50		8.69		9.43	4.56		4.13						
		15			10.06		9.93			5.31						4.44
		20	13.12		12.06		12.12	6.13		4.63						
		25, 30	14.62		14.12		15.44	7.26		5.13						
60, 75		19.50	17.94		15.82		7.63	6.25								
8	Double	25, 30	14.62	0.23	12.06	1.61	12.12	6.13	11.30	4.63	NR	3.624	3.625	0.875	6.00	
		40, 50	16.62		14.12		15.44	7.26		5.13						
		60, 75	19.50		17.94		15.82	7.63		6.25						
		100	22.50		19.31		16.62	8.13		7.50						0.62
		125	25.25		23.38		15.88	9.63		8.00						1.75
		150, 200			16.88											
	Triple	7-1/2	9.25	0.23	7.81	1.61	9.62	4.25	11.30	4.00	NR	3.624	3.625	0.875	6.00	
		10	10.50		8.69		9.43	4.56		4.13						
		15			13.12		10.06			9.93						5.31	4.44
		20	14.62		12.06		12.12	6.13		4.63						
		25, 30	16.62		14.12		15.44	7.26		5.13						
		40, 50	19.50		17.94		15.82	7.63		6.25						

* All Dimensions in inches.

‡ Height of the riser block that comes standard with the gearbox.

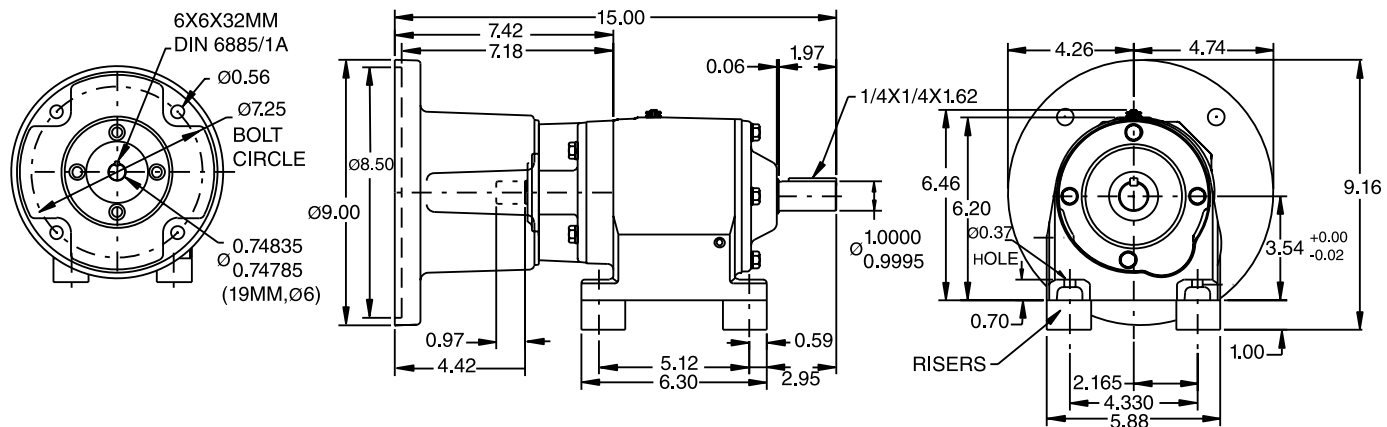
NR indicates that riser block is not required.

★ Motor length subject to change. Please request dimension sheet if this dimension is critical.

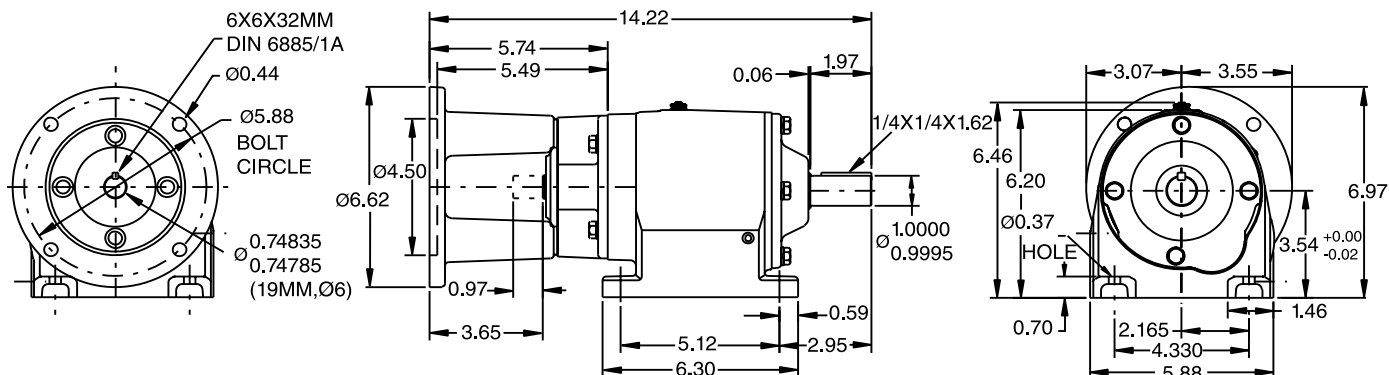
DIMENSIONS

APG C-Face Reducers Double Reduction* - Size 1

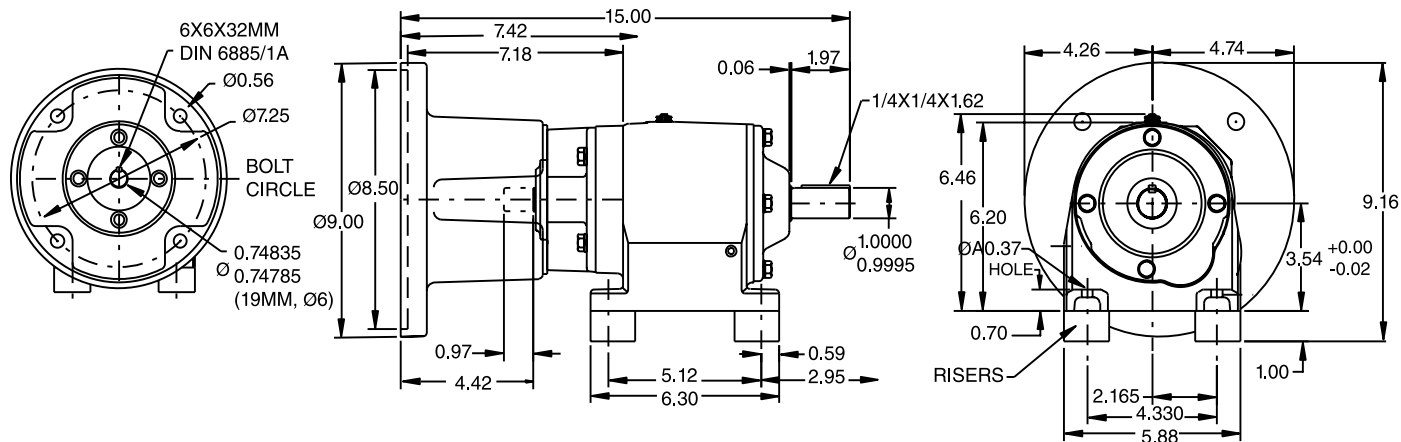
180 FRAME COUPLED INUT ASSEMBLY*



56/140 FRAME COUPLED INPUT ASSEMBLY*

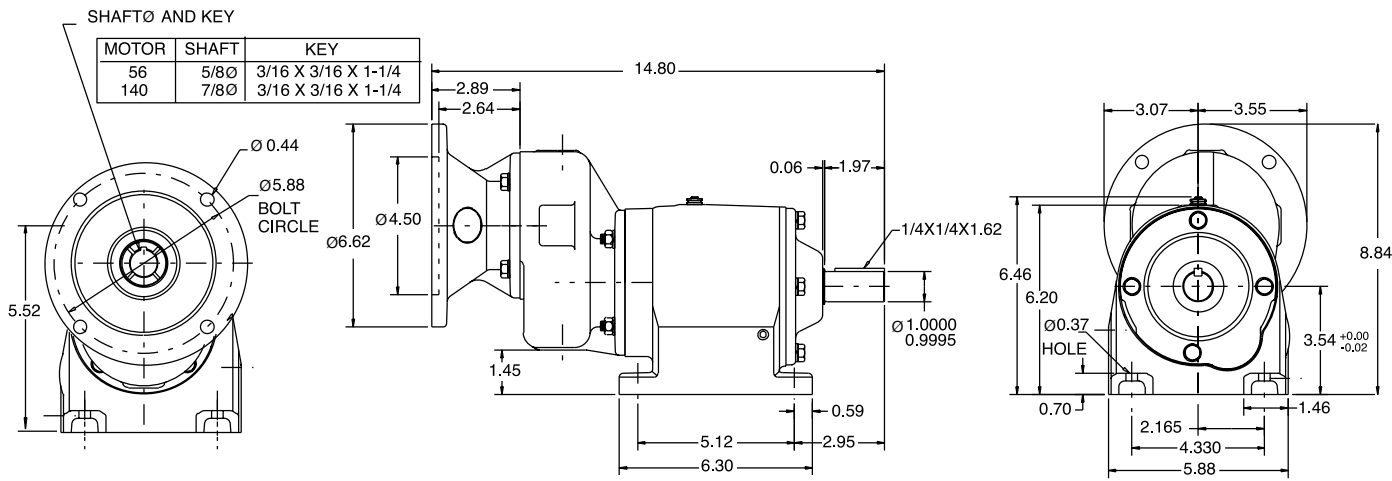


180 FRAME COUPLED INPUT ASSEMBLY*

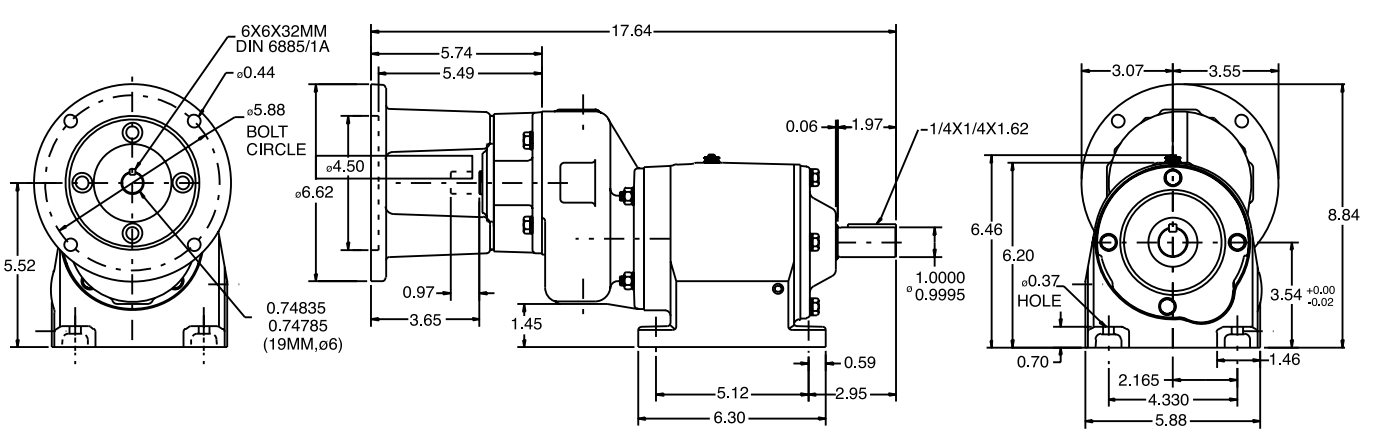


APG C-Face Reducers
Triple Reduction * - Size 1

56/140 FRAME CLAMP COLLAR INPUT ASSEMBLY



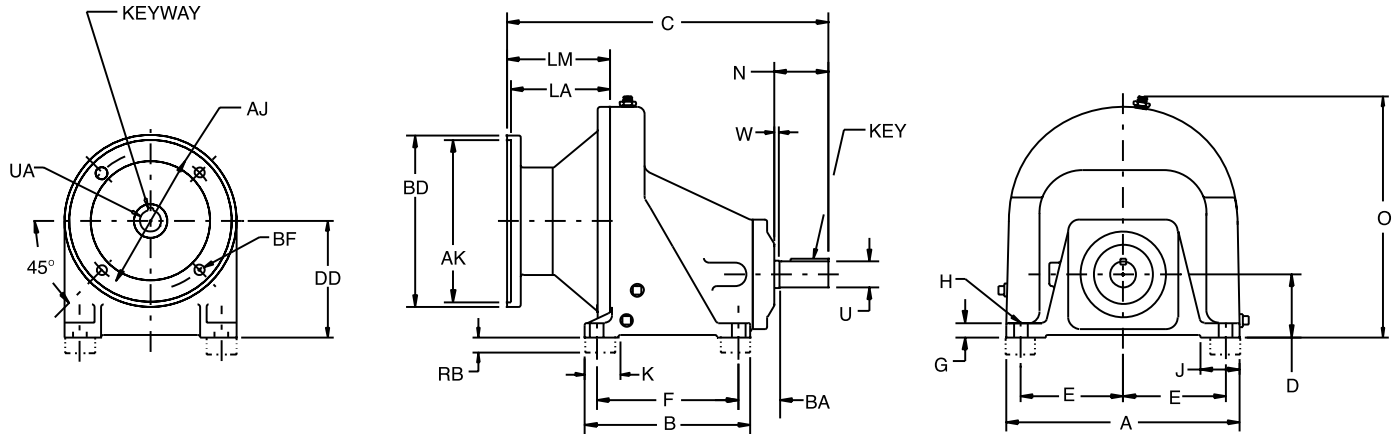
56/140 FRAME COUPLED INPUT ASSEMBLY



NOTE: Input and output shafts are not concentric. Refer to the Separate dimensions, page D1-73 for shaft offset
* A jaw coupling is supplied with the Coupled input reducer

DIMENSIONS

APG C-Face Reducers Single Reduction * - Sizes 2-4



Size	Red.	Frame Size	A	B	C	D	E	F	G	H	J	K	N	O	W	AJ
2	Single	56C	7.12	6.25	11.40	2.20	3.15	5.35	.62	.38	1.38	1.44	1.90	6.97	.15	5.88
		140TC			12.31									8.18		7.25
		180TC														
3	Single	56C	8.25	6.62	12.92	2.51	3.56	5.62	.63	.44	1.56	1.38	2.63	8.50	.12	5.88
		140TC			14.70									8.88		7.25
		180TC														
		210TC														
4	Single	56C	8.25	7.62	13.63	2.55	3.50	6.50	.63	.56	1.75	1.69	2.63	8.94	.12	5.88
		140TC			15.38											7.25
		180TC														
		210TC														
		250TC														

Size	Red.	Frame Size	AK	BA	BD	BF	# of Holes	DD	LA	LM	RB †	UA	K.W. Sq.	U		Key	
														Min.	Max.	Sq.	Length
2	Single	56C	4.50	1.31	6.50	.44	4	3.68	3.43	3.62	NR	.625	.188	.874	.875	.1875	1.250
		140TC				.56			4.31	4.53	1.50	.875	.250				
		180TC				.56			4.31	4.53	1.50	1.125	.250				
3	Single	56C	4.50	1.66	6.50	.41	4	4.38	-	3.63	NR	.625	.188	1.124	1.125	.250	1.75
		140TC				.53			5.19	5.41	.50	.875	.250				
		180TC				.53			5.19	5.41	1.25	1.375	.313				
4	Single	56C	4.50	1.69	6.50	.41	4	4.82	-	3.63	NR	.625	.188	1.124	1.125	.250	1.75
		140TC				.53			5.19	5.41	.88	.875	.250				
		180TC				.53			5.19	5.41	2.44	1.625	.375				

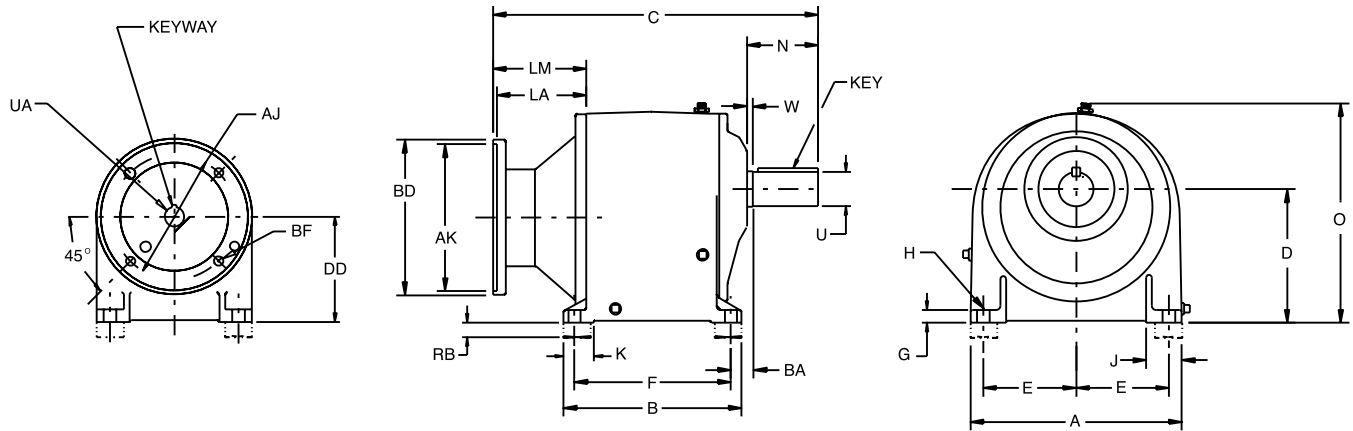
* All dimensions in inches.

† Dimensions represent the height of the riser block that comes standard with the gearmotor.

NR indicates that riser block is not required.

APG C-Face Reducers

Double, Triple Reduction * - Sizes 2-4



Size	Red.	Frame Size	A	B	C	D	E	F	G	H	J	K	N	O	W	AJ
2	Double	56C	7.12	7.06	12.20	4.56	3.15	6.30	.63	.38	1.38	1.31	2.14	7.75	0.14	5.88
		140TC			13.09											7.25
		180TC														
	Triple	56C	7.12	7.06	12.79	4.56	3.15	6.30	.63	.38	1.38	1.31	2.14	7.75	0.14	5.88
3	Double	56C	8.25	8.00	13.70	5.37	3.56	7.00	.63	.44	1.50	1.38	2.63	9.25	0.12	5.88
		140TC			15.48											7.25
		180TC														
	Triple	56C	8.25	8.00	14.39	5.37	3.56	7.00	.63	.44	1.50	1.38	2.63	9.25	0.12	5.88
4	Double	56C	8.25	9.00	15.05	6.17	3.50	7.88	.63	.56	1.75	1.69	3.39	10.51	0.13	5.88
		140TC														7.25
		180TC			16.82											
		210TC														
	Triple	56C	8.25	9.00	15.80	6.17	3.50	7.88	.63	.56	1.75	1.69	3.39	10.51	0.13	5.88
		180TC			17.57											7.25

Size	Red.	Frame Size	AK	BA	BD	BF	No. of Holes	DD	LA	LM	RB †	UA	K.W. Sq.	U		Key	
														Min.	Max.	Square	Length
2	Double	56C	4.50	.81	6.50	0.41	4	3.70	-	3.63	NR	.625	.188	.999	1.000	0.25	1.75
		140TC			9.00	0.53			4.31	4.53	1.25	1.125	.250				
		180TC															
	Triple	56C	4.50	.81	6.50	0.41	4	3.70	-	3.63	NR	.625	.188	.999	1.000	0.25	1.75
3	Double	56C	4.50	1.07	6.50	0.41	4	4.38	-	3.63	NR	.625	.188	1.249	1.250	0.25	1.75
		140TC										.875					
		180TC	8.50		9.00	0.53			5.19	5.41	0.50	1.125	.250				
	Triple	56TC	4.50	1.07	6.50	0.41	4	4.38	-	3.63	NR	.625	.188	1.249	1.250	0.25	1.75
		140TC										.875					
		210TC										1.25	1.375				
4	Double	56C	4.50	.97	6.50	0.41	4	4.82	-	3.63	NR	.625	.188	1.624	1.625	0.375	2.75
		140TC										.875					
		180TC	8.50		9.00	0.53			5.19	5.41		1.125	.250				
		210TC										0.88	1.375				
	Triple	56C	4.50	.97	6.50	0.41	4	4.82	-	3.63	NR	.625	.188	1.624	1.625	0.375	2.75
		140TC										.875					
		180TC	8.50		9.00	0.53			5.19	5.41		1.125	.250				
		250TC										2.44	1.625				

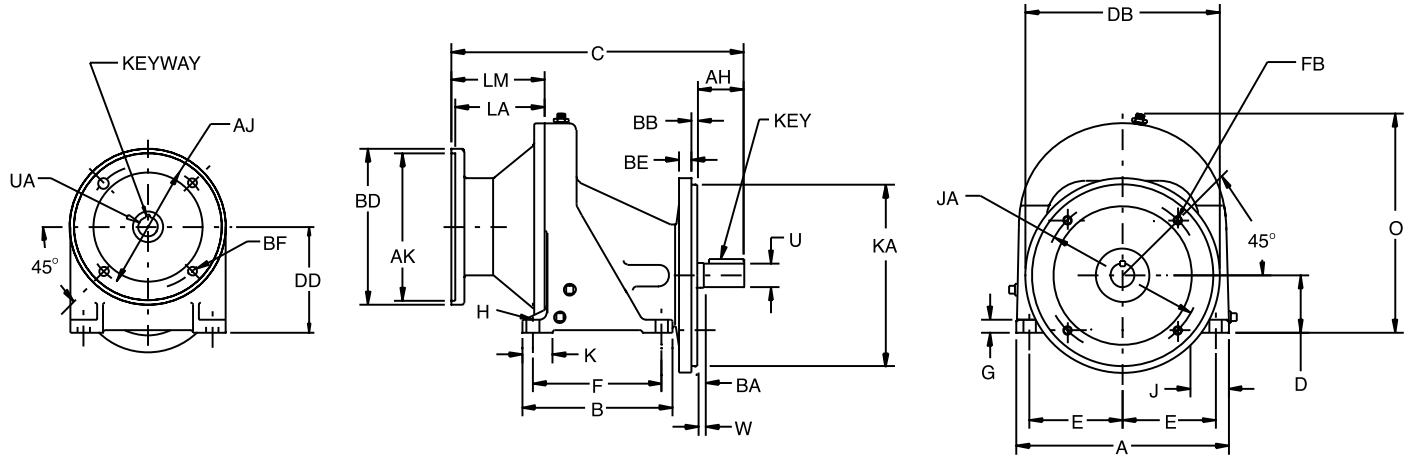
* All dimensions in inches.

† Dimensions represent the height of the riser block that comes standard with the gearmotor.

NR indicates that riser block is not required.

DIMENSIONS

APG C-Face Reducers With Flanged Output Single Reduction * - Sizes 2-4



Size	Red.	Frame Size	A	B	C	D	E	F	G	H	J	K	O	W▲	AH	AJ	AK	BA	BB	BD
2	Single	56C	7.12	6.25	11.40	2.20	3.15	5.35	.62	.38	1.38	1.44	6.97	.10	1.85	5.88	4.50	1.31	0.12	6.50
		140TC			12.31								8.18			7.25	8.50			9.00
		180TC			12.92								8.50			7.25	8.50			9.00
3	Single	56C	8.25	6.62	12.92	2.51	3.56	5.62	.63	.44	1.56	1.38	8.50	.12	2.63	5.88	4.50	1.66	0.24	6.50
		140TC			14.70								8.88			7.25	8.50			9.00
		180TC			15.38								9.32			7.25	8.50			9.00
4	Single	56C	8.25	7.62	13.63	2.55	3.50	6.50	.63	.56	1.75	1.69	8.44	.12	2.63	5.88	4.50	1.69	0.24	6.50
		140TC			15.38								9.32			7.25	8.50			9.00
		180TC			15.38								9.32			7.25	8.50			9.00

Size	Red.	Frame Size	BE	BF	# of Holes	DB	DD	FB	# of Holes	JA	KA	LA	LM	ZN	UA	K.W. Sq.	U		Key	
																	Min	Max	Sq.	Length
2	Single	56C	.56	.44	4	6.50	3.68	3/8-16 THD	4	5.88	4.50	3.43	3.62	-	.625	.188	.874	.875	.1875	1.25
		140TC		.56								4.31	4.53		.875	.250				
		180TC		.56								4.31	4.53		1.125	.250				
3	Single	56C	.51	.41	4	9.00	4.38	1/2-13 THD	4	7.25	8.50	-	3.63	-	.625	.188	1.124	1.125	.250	1.75
		140TC		.41								5.19	5.41		.875	.250				
		180TC		.53								5.19	5.41		1.125	.313				
4	Single	56C	.51	.41	4	9.00	4.82	1/2-13 THD	4	7.25	8.50	-	3.63	-	.625	.188	1.124	1.125	.250	1.75
		140TC		.41								5.19	5.41		.875	.250				
		180TC		.53								5.19	5.41		1.125	.313				

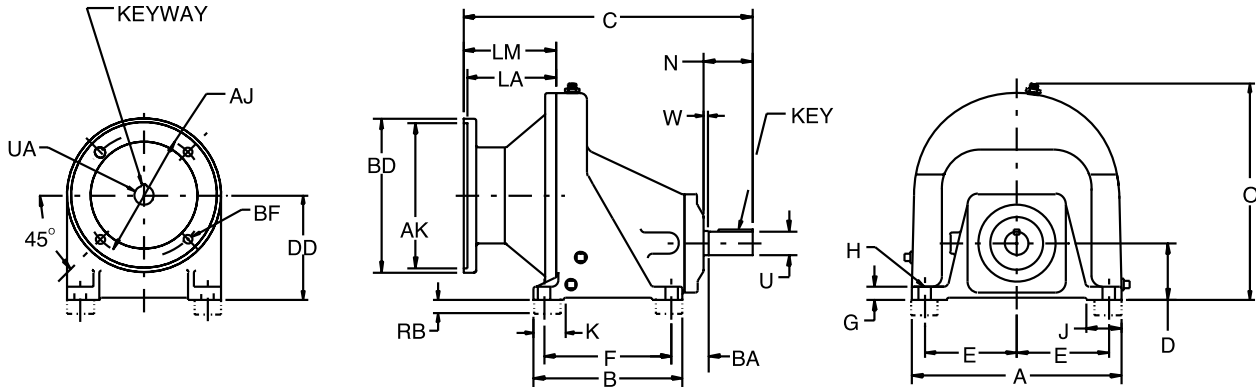
* All dimensions in inches.

▲ Dimensions in parentheses indicate negative values

Note: Output flange dimensions on Size SM2 are equal to the NEMA 140TC dimensions and SM3 and SM4 are equal to NEMA 180TC dimensions

DIMENSIONS

APG C-Face Reducers Single Reduction * - Sizes 5 and 6



Size	Red.	Frame Size	A	B	C	D	E	F	G	H	J	K	N	O	W	AJ
5	Single	56C	12.25	8.69	16.94	3.30	5.38	7.44	0.75	0.72	2.06	1.75	2.85	12.25	0.06	5.88
		140TC														7.25
		180TC														
		210TC														
		250TC			9.00											
280TC																
6	Single	56C	12.25	10.44	18.85	4.21	5.13	8.62	1.00	0.88	2.44	2.56	3.62	13.75	0.12	5.88
		140TC														7.25
		210TC														
		250TC														9.00
		280TC														
		320TC			20.94											14.60	11.00
		360TC														

Size	Red.	Frame Size	AK	BA	BD	BF	No. of Holes	DD	LA	LM	RB †	UA	K.W. Sq.	U		Key			
														Min.	Max.	Square	Length		
5	Single	56C	4.88	1.97	6.50	0.41	4	6.10	5.19	5.41	NR	0.625	0.250	1.375	1.375	.313	2.00		
		140TC										0.875							
		180TC	8.50		9.00	0.53						1.125						1.375	0.313
		210TC										1.625						0.375	
		250TC							1.875	0.500									
		280TC	10.50		11.25	5.94			6.16	2.00	1.875	0.500							
6	Single	56C	4.88	2.31	6.50	0.41	4	7.60	5.19	5.41	NR	0.625	0.313	1.749	1.750	.375	2.75		
		140TC										0.875							
		180TC	8.50		9.00	0.53						1.125						1.375	0.375
		210TC										1.625							
		250TC										1.875							
		280TC	10.50		11.25	5.94			6.16	0.41	1.875	0.500							
		320TC	12.50		14.00	0.66			7.28	7.5	2.125		2.375					0.625	
		360TC									2.75		2.375					0.625	

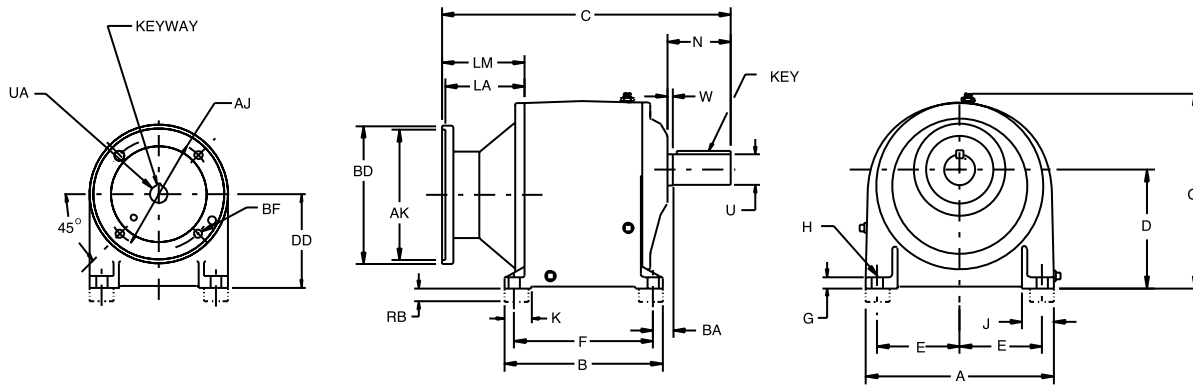
* All dimensions in inches.

† Dimensions represent the height of the riser block that comes standard with the gearmotor.

NR indicates that riser block is not required.

APG C-Face Reducers

Double, Triple Reduction * - Sizes 5 and 6



Size	Red.	Frame Size	A	B	C	D	E	F	G	H	J	K	N	O	W	AJ	
5	Double	56C	12.25	10.31	18.85	7.74	5.38	9.06	0.74	0.72	2.06	1.75	4.13	12.29	0.15	5.88	
		140TC														7.25	
		180TC														9.00	
		210TC			7.25												
		250TC			9.00												
	Triple	56C	12.25	10.31	19.73	7.74	5.38	9.06	0.74	0.72	2.06	1.75	4.13	12.29	0.15	5.88	
		140TC														7.25	
		180TC														9.00	
		210TC			7.25												
		250TC			9.00												
6	Double	56C	12.00	12.88	21.10	9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88	
		140TC														7.25	
		180TC														9.00	
		210TC														11.00	
		250TC			9.00												
		280TC			9.00												
		320TC			9.00												
	Triple	56C	12.00	12.88	20.34	9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88	
		140TC														7.25	
		180TC														9.00	
		210TC														9.00	
		250TC			9.00												
		280TC			9.00												
		320TC			9.00												
360TC	9.00																
7	Double	56C	12.00	12.88	21.10	9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88	
		140TC														7.25	
		180TC														9.00	
		210TC														11.00	
		250TC														9.00	
		280TC														9.00	
		320TC			9.00												
		360TC			9.00												
		Triple			56C											12.00	12.88	20.34	9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
	140TC		7.25														
	180TC		9.00														
	210TC		9.00														
	250TC		9.00														
	280TC		9.00														
	320TC		9.00														
	360TC		9.00														
	8		Double	56C	12.00	12.88	21.10	9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87			15.66											0.12	5.88
		140TC		7.25													
180TC		9.00															
210TC		11.00															
250TC		9.00															
280TC		9.00															
320TC		9.00															
360TC		9.00															
Triple		56C		12.00			12.88									20.34	9.85		5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
		140TC	7.25														
		180TC	9.00														
		210TC	9.00														
		250TC	9.00														
		280TC	9.00														
		320TC	9.00														
		360TC	9.00														
		9	Double		56C	12.00		12.88	21.10	9.85	5.13	11.00	1.00	0.88	2.44	2.56		4.87										15.66	0.12	5.88
140TC				7.25													
180TC	9.00																
210TC	11.00																
250TC	9.00																
280TC	9.00																
320TC	9.00																
360TC	9.00																
Triple	56C			12.00	12.88		20.34		9.85								5.13		11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
	140TC		7.25														
	180TC		9.00														
	210TC		9.00														
	250TC		9.00														
	280TC		9.00														
	320TC		9.00														
	360TC		9.00														
	10		Double			56C	12.00	12.88		21.10	9.85	5.13	11.00	1.00	0.88	2.44		2.56									4.87	15.66	0.12	5.88
140TC				7.25													
180TC		9.00															
210TC		11.00															
250TC		9.00															
280TC		9.00															
320TC		9.00															
360TC		9.00															
Triple		56C		12.00	12.88	20.34			9.85	5.13							11.00		1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
		140TC	7.25														
		180TC	9.00														
		210TC	9.00														
		250TC	9.00														
		280TC	9.00														
		320TC	9.00														
		360TC	9.00														
		11	Double			56C	12.00	12.88			21.10	9.85	5.13	11.00	1.00	0.88		2.44								2.56	4.87	15.66	0.12	5.88
140TC				7.25													
180TC	9.00																
210TC	11.00																
250TC	9.00																
280TC	9.00																
320TC	9.00																
360TC	9.00																
Triple	56C			12.00	12.88	20.34			9.85	5.13	11.00						1.00		0.88	2.44	2.56	4.87	15.66	0.12	5.88
	140TC		7.25														
	180TC		9.00														
	210TC		9.00														
	250TC		9.00														
	280TC		9.00														
	320TC		9.00														
	360TC		9.00														
	12		Double			56C	12.00	12.88				21.10	9.85	5.13	11.00	1.00		0.88							2.44	2.56	4.87	15.66	0.12	5.88
140TC				7.25													
180TC		9.00															
210TC		11.00															
250TC		9.00															
280TC		9.00															
320TC		9.00															
360TC		9.00															
Triple		56C		12.00	12.88	20.34			9.85	5.13	11.00	1.00					0.88
		140TC	7.25														
		180TC	9.00														
		210TC	9.00														
		250TC	9.00														
		280TC	9.00														
		320TC	9.00														
		360TC	9.00														
		13	Double			56C	12.00	12.88					21.10	9.85	5.13	11.00	
140TC				7.25													
180TC	9.00																
210TC	11.00																
250TC	9.00																
280TC	9.00																
320TC	9.00																
360TC	9.00																
Triple	56C			12.00	12.88	20.34			9.85	5.13	11.00	1.00	0.88				2.44		2.56	4.87	15.66	0.12	5.88
	140TC		7.25														
	180TC		9.00														
	210TC		9.00														
	250TC		9.00														
	280TC		9.00														
	320TC		9.00														
	360TC		9.00														
	14		Double			56C	12.00	12.88						21.10	9.85	5.13		11.00					1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
140TC				7.25													
180TC		9.00															
210TC		11.00															
250TC		9.00															
280TC		9.00															
320TC		9.00															
360TC		9.00															
Triple		56C		12.00	12.88	20.34			9.85	5.13	11.00	1.00	0.88	2.44			2.56		4.87	15.66	0.12	5.88
		140TC	7.25														
		180TC	9.00														
		210TC	9.00														
		250TC	9.00														
		280TC	9.00														
		320TC	9.00														
		360TC	9.00														
		15	Double			56C	12.00	12.88							21.10	9.85		5.13				11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
140TC				7.25													
180TC	9.00																
210TC	11.00																
250TC	9.00																
280TC	9.00																
320TC	9.00																
360TC	9.00																
Triple	56C			12.00	12.88	20.34			9.85	5.13	11.00	1.00	0.88	2.44	2.56		4.87		15.66	0.12	5.88
	140TC		7.25														
	180TC		9.00														
	210TC		9.00														
	250TC		9.00														
	280TC		9.00														
	320TC		9.00														
	360TC		9.00														
	16		Double			56C	12.00	12.88								21.10		9.85			5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
140TC				7.25													
180TC		9.00															
210TC		11.00															
250TC		9.00															
280TC		9.00															
320TC		9.00															
360TC		9.00															
Triple		56C		12.00	12.88	20.34			9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66		0.12	5.88
		140TC	7.25														
		180TC	9.00														
		210TC	9.00														
		250TC	9.00														
		280TC	9.00														
		320TC	9.00														
		360TC	9.00														
		17	Double			56C	12.00	12.88										21.10		9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
140TC				7.25													
180TC	9.00																
210TC	11.00																
250TC	9.00																
280TC	9.00																
320TC	9.00																
360TC	9.00																
Triple	56C			12.00	12.88	20.34			9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
	140TC		7.25														
	180TC		9.00														
	210TC		9.00														
	250TC		9.00														
	280TC		9.00														
	320TC		9.00														
	360TC		9.00														
	18		Double			56C	12.00	12.88											21.10	9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
140TC				7.25													
180TC		9.00															
210TC		11.00															
250TC		9.00															
280TC		9.00															
320TC		9.00															
360TC		9.00															
Triple		56C		12.00	12.88	20.34			9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
		140TC	7.25														
		180TC	9.00														
		210TC	9.00														
		250TC	9.00														
		280TC	9.00														
		320TC	9.00														
		360TC	9.00														
		19	Double			56C	12.00	12.88											21.10	9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
140TC				7.25													
180TC	9.00																
210TC	11.00																
250TC	9.00																
280TC	9.00																
320TC	9.00																
360TC	9.00																
Triple	56C			12.00	12.88	20.34			9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
	140TC		7.25														
	180TC		9.00														
	210TC		9.00														
	250TC		9.00														
	280TC		9.00														
	320TC		9.00														
	360TC		9.00														
	20		Double			56C	12.00	12.88											21.10	9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
140TC				7.25													
180TC		9.00															
210TC		11.00															
250TC		9.00															
280TC		9.00															
320TC		9.00															
360TC		9.00															
Triple		56C		12.00	12.88	20.34			9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
		140TC	7.25														
		180TC	9.00														
		210TC	9.00														
		250TC	9.00														
		280TC	9.00														
		320TC	9.00														
		360TC	9.00														
		21	Double			56C	12.00	12.88											21.10	9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
140TC				7.25													
180TC	9.00																
210TC	11.00																
250TC	9.00																
280TC	9.00																
320TC	9.00																
360TC	9.00																
Triple	56C			12.00	12.88	20.34			9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
	140TC		7.25														
	180TC		9.00														
	210TC		9.00														
	250TC		9.00														
	280TC		9.00														
	320TC		9.00														
	360TC		9.00														
	22		Double			56C	12.00	12.88											21.10	9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12	5.88
140TC				7.25													
180TC		9.00															
210TC		11.00															
250TC		9.00															
280TC		9.00															
320TC		9.00															
360TC		9.00															
Triple		56C		12.00	12.88	20.34			9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	

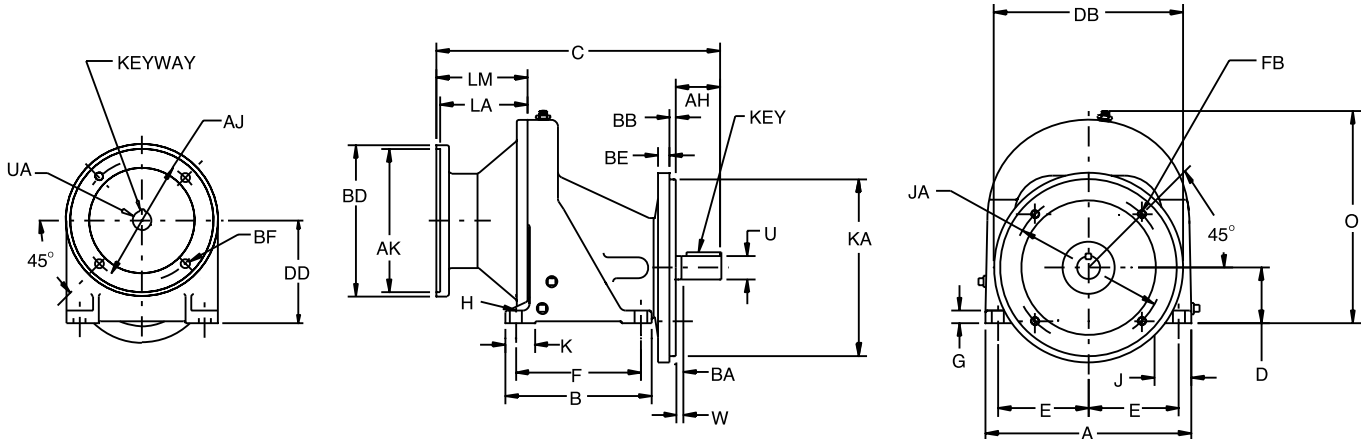
* All dimensions in inches.

† Dimensions represent the height of the riser block that comes standard with the gearmotor.

NR indicates that riser block is not required.

DIMENSIONS

APG C-Face Reducers With Flanged Output Single Reduction * - Sizes 5 and 6



Size	Red.	Frame Size	A	B	C	D	E	F	G	H	J	K	O	W ▲	AH	AJ	AK	BA	BB	BD				
5	Single	56C	12.25	8.69	16.94	3.30	5.38	7.44	0.75	0.72	2.06	1.75	12.25	0.06	2.77	5.88	4.88	1.97	0.24	6.50				
		140TC																						
		180TC																						
		210TC																						
		250TC																						
		280TC			17.69										9.00	8.50			9.00					
																9.00	10.50			11.25				
6	Single	56C	12.25	10.44	18.85	4.21	5.13	8.62	1.00	0.88	2.44	2.56	13.75	0.00	3.50	5.88	4.88	2.31	0.24	6.50				
		140TC																						
		210TC																						
		250TC																						
		280TC																						
		320TC																						
		360TC																						

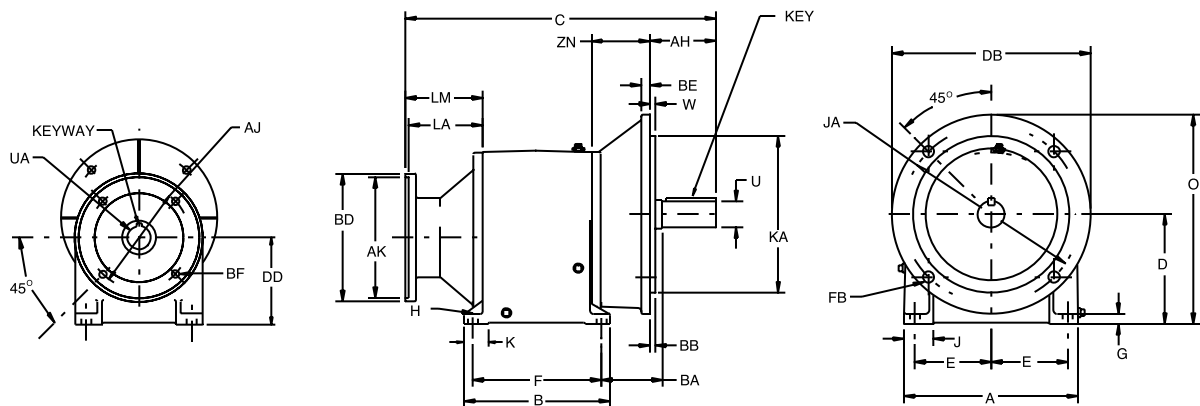
Size	Red.	Frame Size	BE	BF	No. of Holes	DB	DD	FB	No. of Holes	JA	KA	LA	LM	ZN	UA	K.W. Sq.	U		Key	
																	Min.	Max.	Sq.	Length
5	Single	56C	0.94	0.41	4	11.25	6.10	1/2-13 THD	4	9.00	10.50	5.19	5.41	-	0.625	0.188	1.374	1.375	0.313	2.00
		140TC		0.875																
		180TC		1.125											0.250					
		210TC		1.375											0.313					
		250TC	1.625	0.375																
		280TC	1.875	0.500																
			5.94	6.16																
6	Single	56C	0.94	0.41	4	14.00	7.60	5/8-11 THD	4	11.00	12.50	5.19	5.41	-	0.625	0.188	1.749	1.75	0.375	2.75
		140TC		0.875																
		180TC		1.125											0.250					
		210TC		1.375											0.313					
		250TC	1.625	0.375																
		280TC	1.875	0.500																
		320TC	2.125	0.625																
		360TC	2.375	0.625																
			5.94	6.16																
			7.28	7.5																

* All dimensions in inches.

▲ Dimensions in parentheses indicate negative values

APG C-Face Reducers With Flanged Output

Double, Triple Reduction * - Sizes 5 and 6



Size	Red.	Frame Size	A	B	C	D	E	F	G	H	J	K	O	W ▲	AH	AJ	AK	BA	BB	BD												
5	Double	56C	12.25	10.31	21.84	7.74	5.38	9.06	0.74	0.72	2.06	1.75	14.74	(0.19)	4.62	5.88	4.50	3.43	0.19	6.50												
		140TC														7.25	8.50			9.00												
		180TC																														
		210TC																														
	250TC	22.59	7.74	5.38	9.06	0.74	0.72	2.06	1.75	14.74	(0.19)	4.62	9.00	10.50	3.43	0.19	11.25															
	280TC																															
	56C	12.25											10.31	20.94			7.74	5.38	9.06	0.74	0.72	2.06	1.75	14.74	(0.19)	4.62	5.88	4.50	3.43	0.19	6.50	
	140TC																										7.25	8.50			9.00	
180TC																																
210TC																																
6	Double	56C	12.00	12.88	24.79	9.85	5.13	11.00	1.00	0.88	2.44	2.56	18.85	0.07	5.88	5.88	4.50	3.79	0.19	6.50												
		140TC														7.25	8.50			9.00												
		180TC																														
		210TC																														
		250TC			25.54											7.74	5.13			9.06	0.74	0.72	2.06	1.75	14.74	(0.19)	4.62	9.00	10.50	3.43	0.19	11.25
		280TC																														
		320TC																														
	360TC																															
	Triple	56C	12.00	12.88	24.03	9.85	5.13	11.00	1.00	0.88	2.44	2.56	18.85	0.07	5.88	5.88	4.50	3.79	0.19	6.50												
		140TC														7.25	8.50			9.00												
		180TC																														
		210TC																														
250TC		25.81			7.25											8.50	9.00															
280TC																																
26.56																																

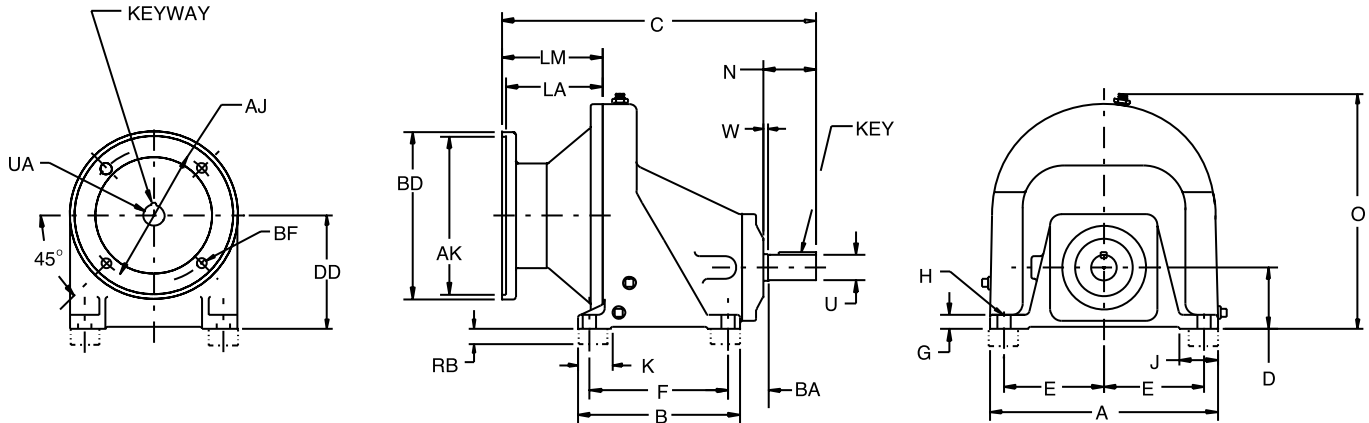
Size	Red.	Frame Size	BE	BF	No. of Holes	DB	DD	FB	No. of Holes	JA	KA	LA	LM	ZN	UA	K.W. Sq.	U		Key	
																	Min.	Max.	Sq.	Length
5	Double	56C	0.63	0.41	4	14.00	6.10	0.812	4	12.50	11.00	5.19	5.41	4.12	0.625	0.188	1.874	1.875	0.500	3.50
		140TC		0.53											0.875					
		180TC		0.53											1.125					
		210TC		0.53											1.375					
		250TC		0.53											1.625					
		280TC		0.53											1.875					
	Triple	56C	0.63	0.41	4	14.00	6.10	0.812	4	12.50	11.00	-	3.63	4.12	0.625	0.188	1.874	1.875	0.500	3.50
		140TC		0.53											0.875					
		180TC		0.53											1.125					
		210TC		0.53											1.375					
		250TC		0.53											1.625					
		280TC		0.53											1.875					
6	Double	56C	0.75	0.41	4	18.00	7.60	0.812	4	16.00	14.00	5.19	5.41	4.56	0.625	0.188	2.374	2.375	0.625	4.00
		140TC		0.53											0.875					
		180TC		0.53											1.125					
		210TC		0.53											1.375					
		250TC		0.53											1.625					
		280TC		0.53											1.875					
	Triple	56C	0.75	0.41	4	18.00	7.60	0.812	4	16.00	14.00	-	3.63	4.56	0.625	0.188	2.375	2.375	0.625	4.00
		140TC		0.53											0.875					
		180TC		0.53											1.125					
		210TC		0.53											1.375					
		250TC		0.53											1.625					
		280TC		0.53											1.875					

* All dimensions in inches.

▲ Dimensions in parentheses indicate negative values

DIMENSIONS

APG C- Face Reducers Single Reduction * - Sizes 7 and 8



Size	Red.	Frame Size	A	B	C	D	E	F	G	H	J	K	N	O	W	AJ
7	Single	180TC	18.25	12.50	21.47	6.62	7.81	10.12	1.38	1.31	3.38	3.00	4.50	20.06	0.16	7.25
		210TC														
		250TC														
		280TC			22.22											9.00
		320TC			23.52											
360TC	11.00															
8	Single	280TC	18.25	14.25	24.69	6.15	7.81	11.88	1.75	1.31	3.50	3.75	5.62	20.44	0.16	9.00
		320TC			26.00											11.00
		360TC														

Size	Red.	Frame Size	AK	BA	BD	BF	No. of Holes	DD	LA	LM	RB †	UA	K.W. Square	U		Key									
														Min.	Max.	Square	Length								
7	Single	180TC	8.50	3	9.00	0.53	4	10.94	5.19	5.41	NR	1.125	0.25	2.249	2.250	0.500	3.50								
		210TC										1.375	0.312												
		250TC										1.625	0.375												
		280TC	10.50		11.25	0.66	8		5.94	6.16		1.875	0.500												
		320TC										2.125													
		360TC										2.375	0.625												
8	Single	280TC	10.50	3	11.25	0.53	4	11.42	5.94	6.16	NR	1.875	0.500	2.749	2.750	0.625	5.00								
		320TC										2.125													
		360TC										2.375	0.625												

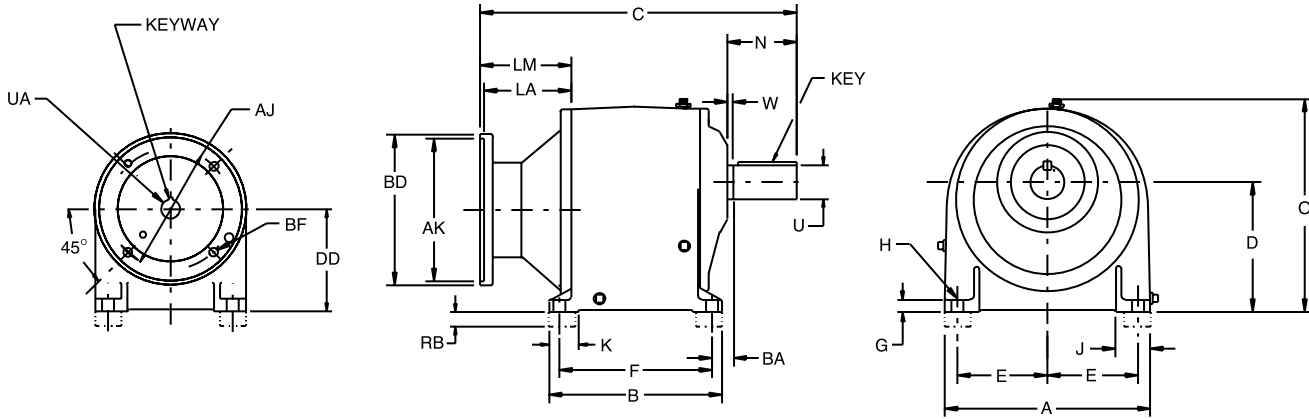
* All dimensions in inches.

† Dimensions represent the height of the riser block that comes standard with the gearmotor.
NR indicates that riser block is not required.

NOTE: Flange mounting is not available on Single Reduction Size 7 and 8 reducers.

APG C-Face Reducers

Double, Triple Reduction * - Sizes 7 and 8



Size	Red.	Frame Size	A	B	C	D	E	F	G	H	J	K	N	O	W	AJ
7	Double	180TC	18.25	16.12	24.36	13.92	7.81	13.75	1.38	1.31	3.31	3.44	5.94	21.65	0.19	7.25
		210TC			9.00											
		250TC			11.00											
		280TC														
		320TC														
	360TC															
	Triple	180TC	18.25	16.12	25.57	13.92	7.81	13.75	1.38	1.31	3.31	3.44	5.94	21.65	0.19	7.25
		210TC			9.00											
		250TC			11.00											
		280TC														
320TC																
360TC																
8	Double	250TC	18.25	18.62	29.68	15.21	7.81	16.16	1.75	1.31	3.44	3.75	7.48	24.36	0.23	7.25
		280TC			9.00											
		320TC			11.00											
		360TC														
	Triple	180TC	18.25	18.62	30.38	15.21	7.81	16.16	1.75	1.31	3.44	3.75	7.48	24.36	0.23	7.25
		210TC			9.00											
		250TC			11.00											
		280TC														
		320TC														
		360TC														

Size	Red.	Frame Size	AK	BA	BD	BF	#Input Holes	DD	LA	LM	RB †	UA	K.W. Sq.	U		Key					
														Min.	Max.	Sq.	Length				
7	Double	180TC	8.50	0.87	9.00	0.53	4	10.95	5.19	5.41	NR	1.125	0.250	2.874	2.875	0.75	5.00				
		210TC			1.375				0.313												
		250TC			1.625				0.375												
		280TC	10.50		11.25	5.94	6.16		1.875	0.500											
		320TC	12.50		14.00	0.69	8		7.25	7.47		2.125	0.625								
		360TC										2.375	0.625								
	Triple	180TC	8.50	0.87	9.00	0.53	4	10.95	5.19	5.41	NR	1.125	0.250	2.874	2.875	0.75	5.00				
		210TC			1.375				0.313												
		250TC			1.625				0.375												
		280TC	10.50		11.25	5.94	6.16		1.875	0.500											
		320TC	12.50		14.00	0.69	8		7.25	7.47		2.125	0.625								
		360TC										2.375	0.625								
8	Double	250TC	8.50	1.61	9.00	0.53	4	11.42	5.19	5.41	NR	1.625	0.375	3.624	3.625	0.875	6.00				
		280TC	10.50		11.25				5.94	6.16		1.875	0.500								
		320TC																2.125	0.500		
		360TC	12.50		14.00				0.69	8		7.25	7.47					2.375	0.625		
	Triple	180TC	8.50	1.61	9.00	0.53	4	11.42	5.19	5.41	NR	1.125	0.250	3.624	3.625	0.875	6.00				
		210TC			1.375				0.313												
		250TC			1.625				0.375												
		280TC			10.50				11.25	5.94		6.16	1.875					0.500			
		320TC	12.50		14.00	0.69	8		7.25	7.47		2.125									
		360TC										2.375	0.625								

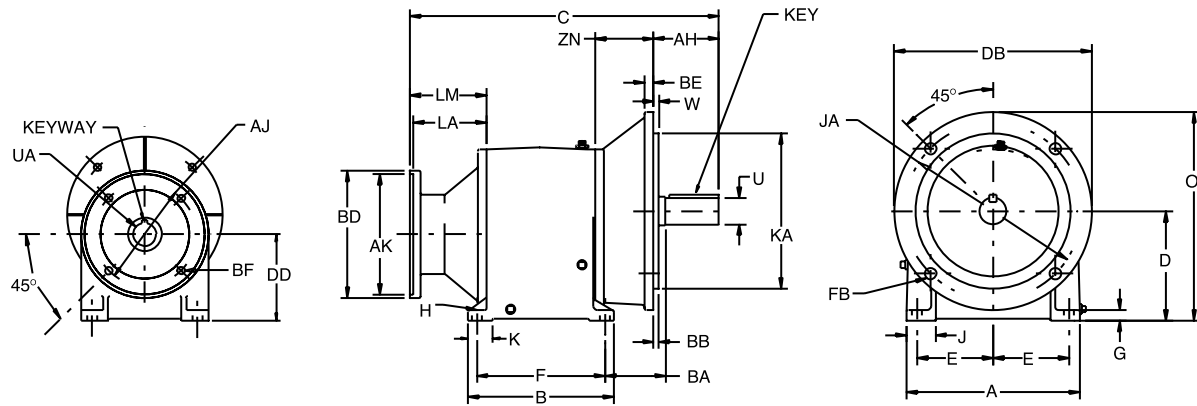
* All dimensions in inches.

† Dimensions represent the height of the riser block that comes standard with the gearmotor.

NR indicates that riser block is not required.

DIMENSIONS

APG C-Face Reducers With Flanged Output Double, Triple Reduction * - Sizes 7 and 8



Size	Red.	Frame Size	A	B	C	D	E	F	G	H	J	K	AH	O	W ▲	AJ	AK	BA	BB	BD										
7	Double	180TC	18.25	16.12	29.89	13.92	7.81	13.75	1.38	1.31	3.31	3.44	7.25	24.79	(0.22)	7.25	8.50	4.92	0.25	9.00										
		210TC			30.64											9.00	10.50			11.25										
		250TC														11.00	12.50			14.00										
		280TC																												
		320TC			31.95																									
		360TC																												
	Triple	180TC	18.25	16.12	31.10	13.92	7.81	13.75	1.38	1.31	3.31	3.44	7.25	24.79	(0.22)	7.25	8.50	4.92		9.00										
		210TC			31.85											9.00	10.50			11.25										
		250TC														11.00	12.50			14.00										
		280TC																												
		320TC			33.15																									
		360TC																												
8	Double	250TC	18.25	18.62	32.83	15.21	7.81	16.16	1.75	1.31	3.44	3.75	08.5	28.22	0.00	7.25	8.50	4.31	0.22	9.00										
		280TC			33.58											9.00	10.50			11.25										
		320TC			34.89											11.00	12.50			14.00										
		360TC																												
		Triple			180TC											18.25	18.62			34.28	15.21	7.81	16.16	1.75	1.31	3.44	3.75	8.50	28.22	0.00	7.25	8.50	4.31	9.00
	210TC		35.03											9.00	10.50			11.25												
	250TC													11.00	12.50			14.00												
	280TC																													
	320TC																													
	360TC		36.34																											

Size	Red.	Frame Size	BE	BF	# Input Holes	DB	DD	FB	# Output Holes	JA	KA	LA	LM	RB †	ZN	UA	K.W. Sq.	U		Key	
																		Min.	Max.	Sq.	Leng.
7	Double	180TC	1.00	0.53	4	21.75	10.95	0.81	8	20.00	18.00	5.19	5.41	NR	6.31	1.125	0.250	2.874	2.875	0.75	5.00
		210TC														1.375	0.313				
		250TC		0.69	8							5.94	6.16			1.625	0.375				
		280TC														1.875	0.500				
		320TC														2.125	0.625				
	360TC					2.375	0.625														
	Triple	180TC	1.00	0.53	4	21.75	10.95	0.81	8	20.00	18.00	5.19	5.41	NR	6.31	1.125	0.250	2.874	2.875	0.75	5.00
		210TC														1.375	0.313				
		250TC		0.69	8							5.94	6.16			1.625	0.375				
		280TC														1.875	0.500				
320TC		2.125														0.625					
360TC					2.375	0.625															
8	Double	250TC	1.00	0.53	4	26.00	11.42	0.81	8	24.00	22.00	5.19	5.41	NR	5.88	16.25	0.375	3.624	3.625	0.875	6.00
		280TC														5.94	6.16				
		320TC		0.69	8							7.25	7.47			1.875	0.500				
		360TC														2.125	0.625				
	Triple	180TC	1.00	0.53	4	26.00	11.42	0.81	8	24.00	22.00	5.19	5.41	NR	5.80	1.125	0.250	3.624	3.625	0.875	6.00
		210TC														1.375	0.313				
		250TC		0.69	8							5.94	6.16			1.625	0.375				
		280TC														1.875	0.500				
		320TC														2.125	0.625				
		360TC														2.375	0.625				

* All dimensions in inches.

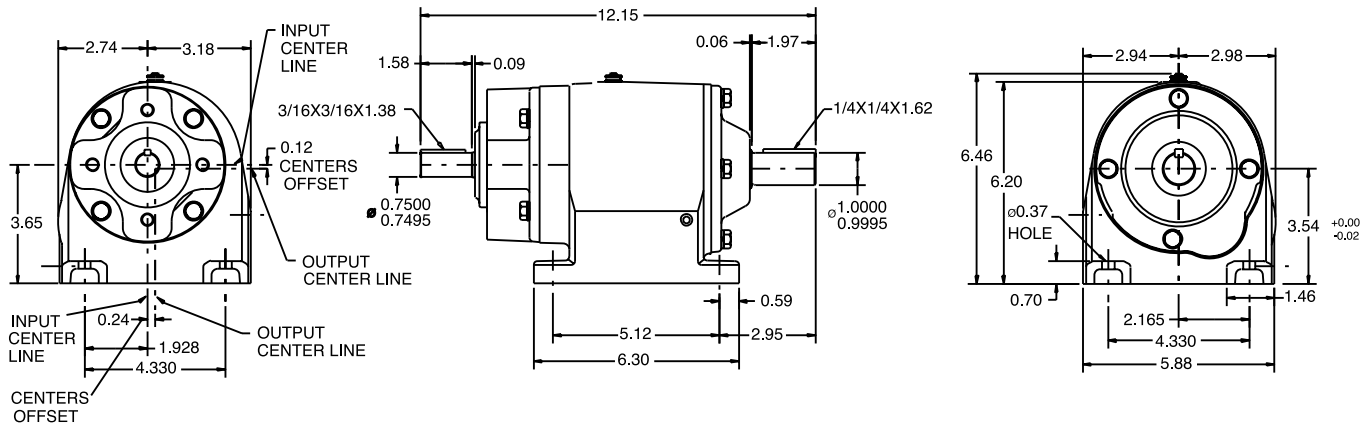
▲ Dimensions in parentheses indicate negative values

† Dimensions represent the height of the riser block that comes standard with the gearmotor.

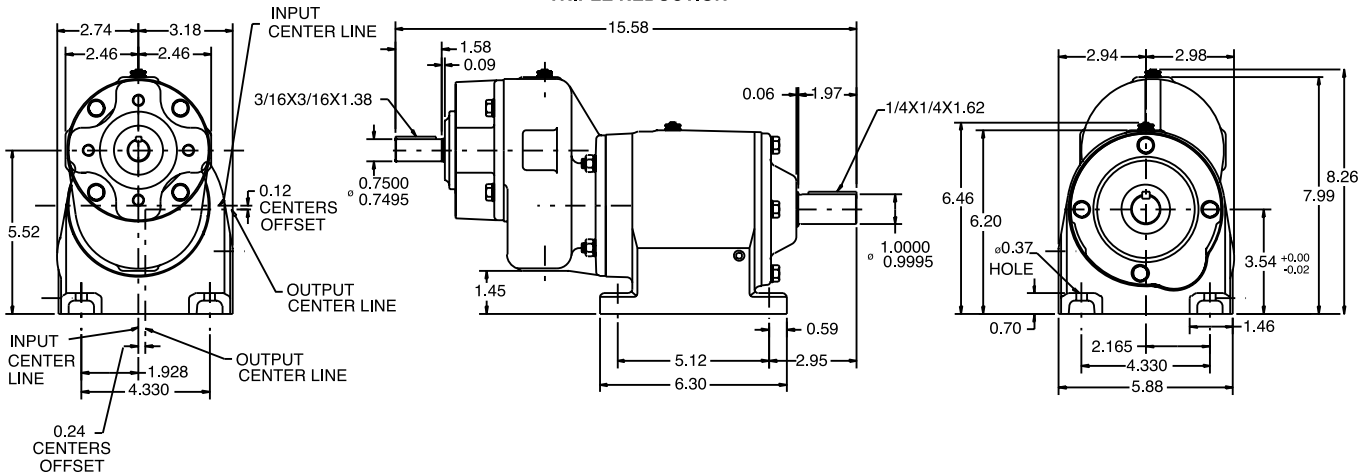
NR indicates that riser block is not required.

APG Separate Reducers Size 1

DOUBLE REDUCTION

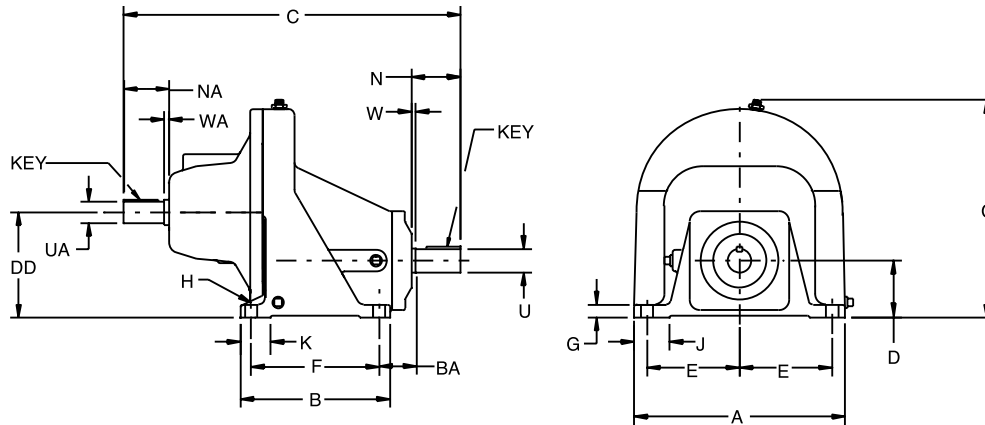


TRIPLE REDUCTION



DIMENSIONS

APG Separate Reducers Single Reduction - Sizes 3 - 8



Size	A	B	C	D	E	F	G	H	J	K	N	O	W
SR3	8.25	6.62	16.12	2.51	3.56	5.62	0.62	0.44	1.56	1.38	2.63	8.50	0.12
SR4	8.25	7.62	16.84	2.55	3.50	6.50	0.62	0.56	1.75	1.69	2.63	8.94	0.12
SR5	12.25	8.69	19.65	3.30	5.38	7.44	0.75	0.72	2.06	1.75	2.85	12.25	0.06
SR6	12.25	10.44	23.37	4.21	5.13	8.62	1.00	0.88	2.44	2.56	3.62	13.75	0.12
SR7	18.25	12.50	31.75	6.62	7.81	10.12	1.38	1.31	3.38	3.00	4.50	20.06	0.16
SR8	18.25	14.25	34.34	6.15	7.81	11.88	1.75	1.31	3.50	3.75	5.62	20.44	0.16

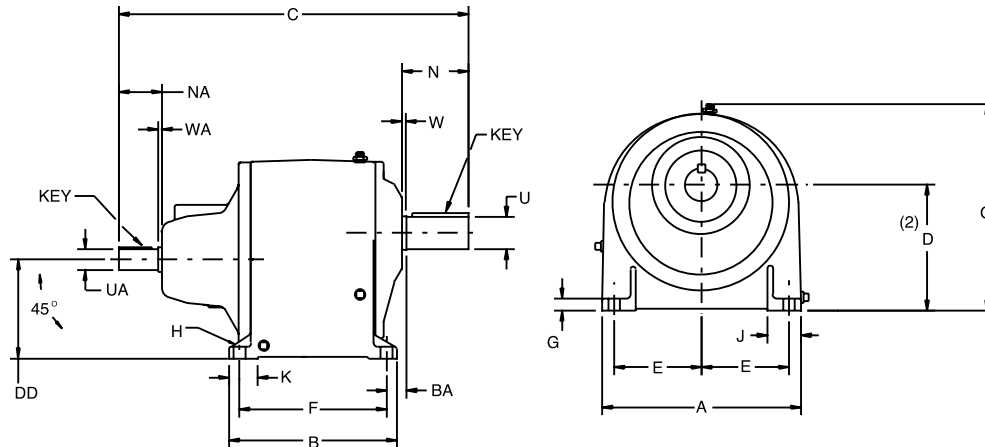
Size	BA	DD	NA	WA	Input Shaft				Output Shaft				Fan
					UA		Key		U		Key		X
					Min.	Max.	Square	Length	Min.	Max.	Square	Length	
SR3	1.62	4.38	2.12	0.12	0.999	1.00	0.250	1.75	1.124	1.125	0.250	1.75	N.R.
SR4	1.69	4.82	2.12	0.12	0.999	1.00	0.250	1.75	1.124	1.125	0.250	1.75	N.R.
SR5	1.97	6.10	2.62	0.12	1.249	1.25	0.250	2.00	1.374	1.375	0.313	2.00	N.R.
SR6	2.19	7.60	3.12	0.12	1.499	1.50	0.375	2.50	1.749	1.750	0.375	2.75	N.R.
SR7	3.00	10.94	2.52*	0.12	2.124	2.125	0.500	3.75	2.249	2.250	0.500	3.50	7.98
SR8	3.00	11.42	2.52*	0.12	2.124	2.125	0.500	3.75	2.749	2.750	0.625	5.00	7.98

* Size 7 and 8 Single Reduction units are supplied with a fan on the input shaft. See drawing above.

NOTE: All dimensions in inches.

APG Separate Reducers

Double Reduction - Size 3 - 8



Size	A	B	C	D	E	F	G	H	J	K	N	O	W
DR3	8.25	8.00	16.94	5.37	3.56	7.00	0.63	0.44	1.50	1.38	2.63	8.75	0.12
DR4	8.25	9.00	18.29	6.17	3.50	7.88	0.63	0.56	1.75	1.69	3.39	10.03	0.13
DR5	12.25	10.31	21.56	7.74	5.38	9.06	0.74	0.72	2.06	1.75	4.13	12.29	0.15
DR6	12.25	12.88	25.62	9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12
DR7	18.25	16.12	34.64	13.92	7.81	13.75	1.36	1.31	3.31	3.44	5.94	21.65	0.19
DR8	18.25	18.62	39.21	15.21	7.81	16.16	1.75	1.31	3.44	3.75	7.48	24.36	0.23

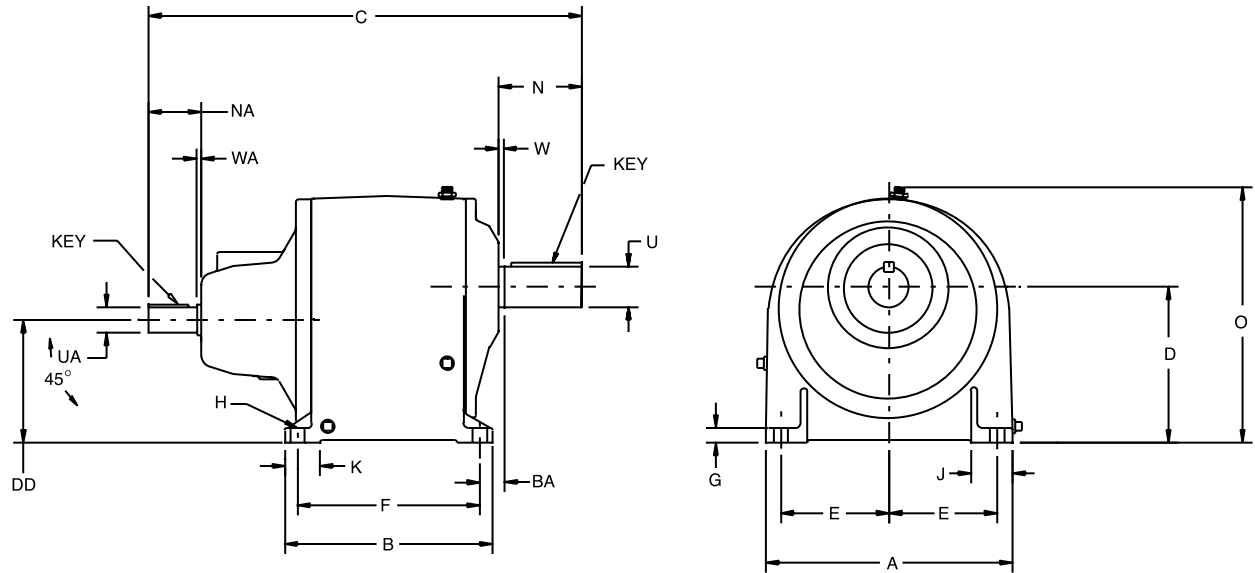
Size	BA	DD	NA	WA	Input Shaft				Output Shaft				Fan
					UA		Key		U		Key		X
					Min.	Max.	Square	Length	Min.	Max.	Square	Length	
DR3	1.07	4.39	2.12	0.12	0.999	1.000	0.250	1.75	1.249	1.250	0.250	1.75	N.R.
DR4	0.98	4.82	2.12	0.12	0.999	1.000	0.250	1.75	1.624	1.625	0.375	2.75	N.R.
DR5	1.08	6.10	2.62	0.12	1.249	1.250	0.250	2.00	1.999	2.000	0.500	3.50	N.R.
DR6	1.00	7.60	3.12	0.12	1.499	1.500	0.375	2.50	2.374	2.375	0.625	4.00	N.R.
DR7	0.94	10.95	2.52*	0.12	2.124	2.125	0.500	3.75	2.874	2.875	0.750	5.00	7.98
DR8	1.61	11.42	2.52*	0.12	2.124	2.125	0.500	3.75	3.624	3.625	0.875	6.00	7.98

* Size 7 and 8 Double Reduction units are supplied with a fan on the input shaft. See drawing above.

NOTE: All dimensions in inches.

DIMENSIONS

APG Separate Reducers Triple Reduction - Sizes 3 - 8



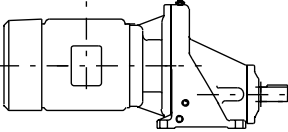
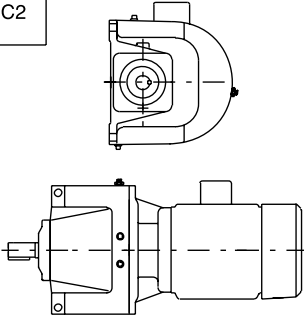
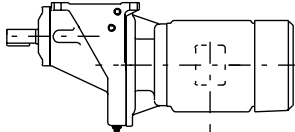
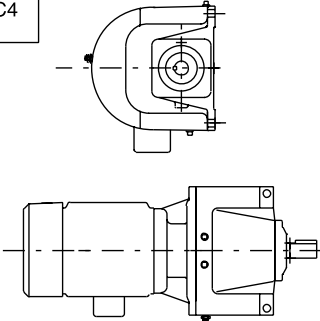
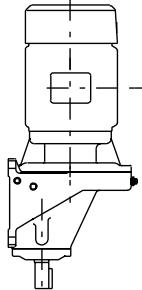
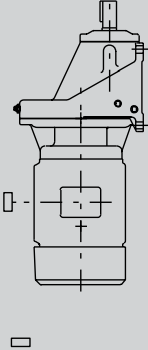
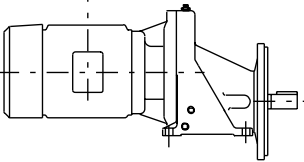
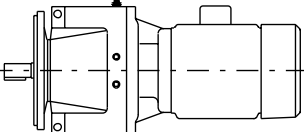
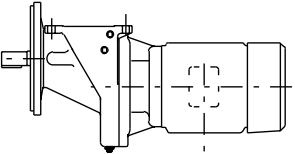
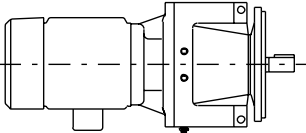
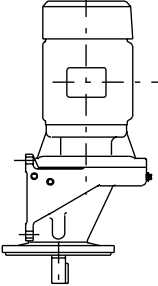
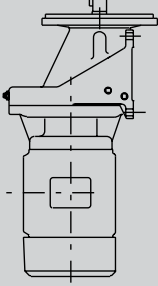
Size	A	B	C	D	E	F	G	H	J	K	N	O	W
TR3	8.25	8.00	17.63	5.37	3.56	7.00	0.63	0.44	1.50	1.38	2.63	8.75	0.12
TR4	8.25	9.00	19.04	6.17	3.50	7.88	0.63	0.56	1.75	1.69	3.39	10.03	0.13
TR5	12.25	10.31	22.43	7.74	5.38	9.06	0.74	0.72	2.06	1.75	4.13	12.29	0.15
TR6	12.25	12.88	26.64	9.85	5.13	11.00	1.00	0.88	2.44	2.56	4.87	15.66	0.12
TR7	18.25	16.12	35.78	13.92	7.81	13.75	1.36	1.31	3.31	3.44	5.94	21.65	0.19
TR8	18.25	18.62	40.59	15.21	7.81	16.16	1.75	1.31	3.44	3.75	7.48	24.36	0.23

Size	BA	DD	NA	WA	Input Shaft				Output Shaft			
					UA		Key		U		Key	
					Min.	Max.	Square	Length	Min.	Max.	Square	Length
TR3	1.07	4.39	2.12	0.12	0.999	1.000	0.250	1.75	1.25	1.25	0.25	1.75
TR4	0.98	4.82	2.12	0.12	0.999	1.000	0.250	1.75	1.62	1.63	0.38	2.75
TR5	1.08	6.10	2.62	0.12	1.249	1.250	0.250	2.00	2.00	2.00	0.50	3.50
TR6	1.00	7.60	3.12	0.12	1.499	1.500	0.375	2.50	2.37	2.38	0.63	4.00
TR7	0.94	10.95	4.37*	0.12	2.124	2.125	0.500	3.75	2.87	2.88	0.75	5.00
TR8	1.61	11.42	4.37*	0.12	2.124	2.125	0.500	3.75	3.62	3.63	0.88	6.00

NOTE: All dimensions in inches.

APG Gearmotors

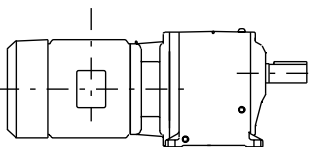
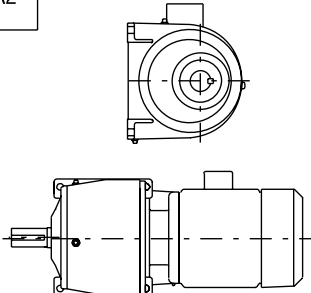
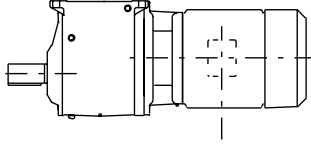
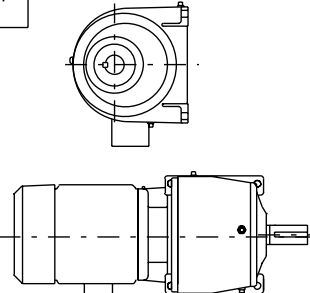
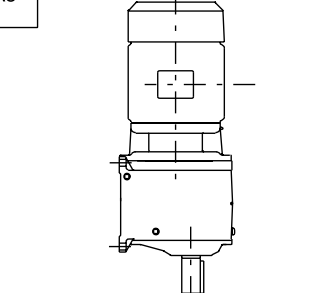
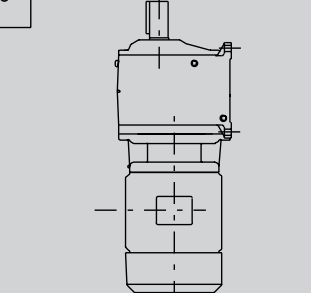
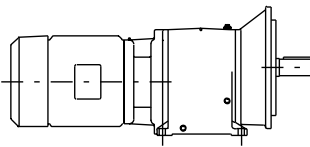
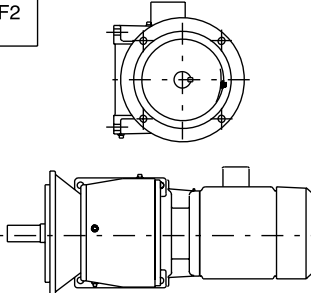
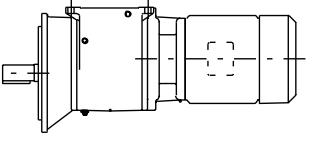
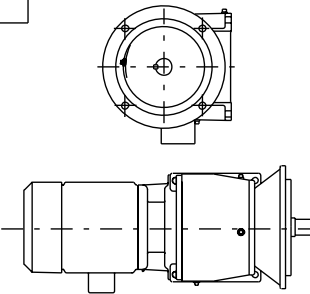
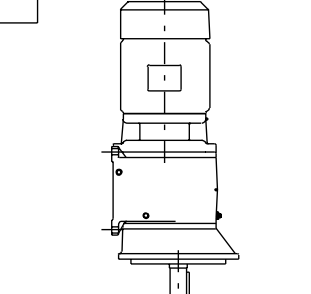
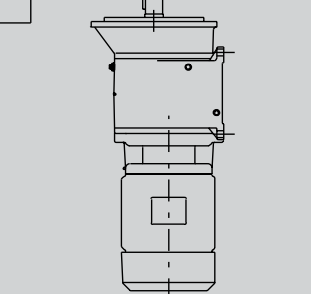
Single Reduction Gearmotor - Foot Mounted and Flange Mounted

* C1 	C2 	C3 
C4 	C5 	C6 
* CF1 	CF2 	CF3 
CF4 	CF5 	CF6 
NOTE: Shaded boxes indicate mounting not recommended. These should be avoided. Use of product in positions not recommended negates time-in-use warranty.		

* Standard Mounting Position

APG Gearmotors

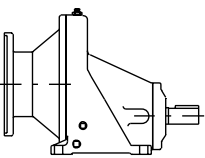
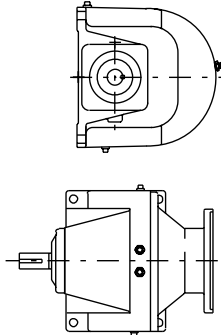
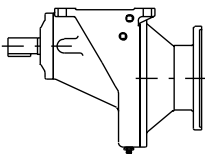
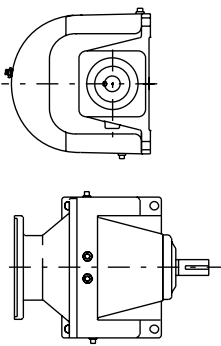
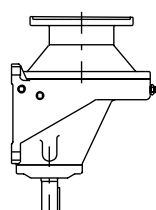
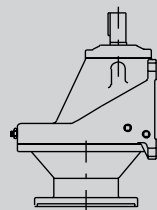
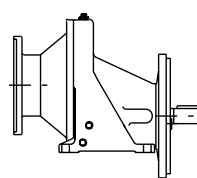
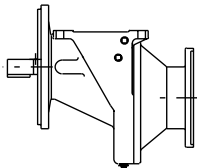
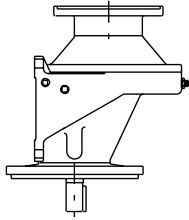
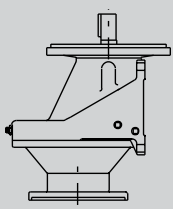
Double/Triple Reduction Gearmotor - Foot Mounted and Flange Mount

* A1 	A2 	A3 
A4 	A5 	A6 
* AF1 	AF2 	AF3 
AF4 	AF5 	AF6 
NOTE: Shaded boxes indicate mounting not recommended. These should be avoided. Use of product in positions not recommended negates time-in-use warranty.		

* Standard Mounting Position

APG Gearmotors

Single Reduction C-Face Reducer - Foot Mounted and Flange Mount

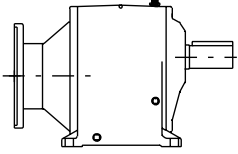
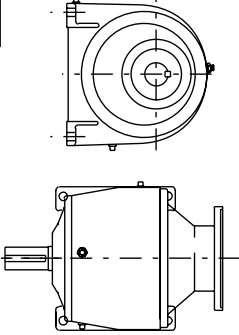
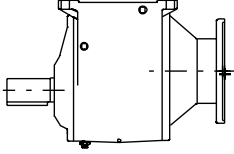
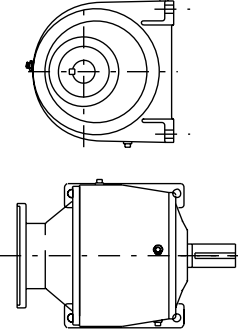
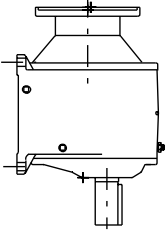
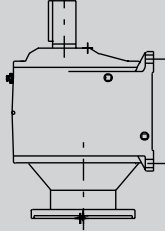
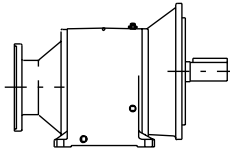
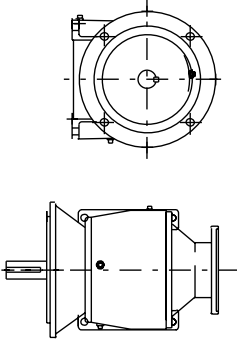
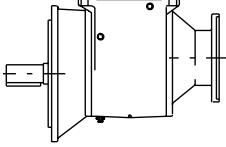
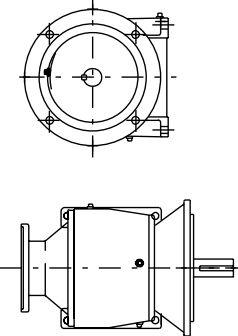
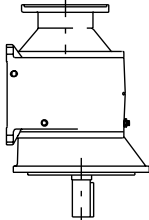
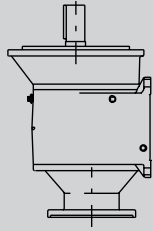
* C1 	C2 	C3 
C4 	C5 	C6 
* CF1 	CF3 	CF5 
CF6 	NOTE: Shaded boxes indicate mounting not recommended. These should be avoided. Use of product in positions not recommended negates time-in-use warranty.	

* Standard Mounting Position

MOUNTING POSITIONS

APG Gearmotors

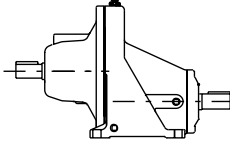
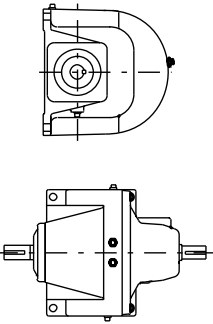
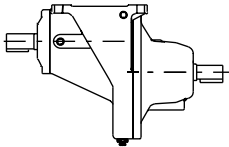
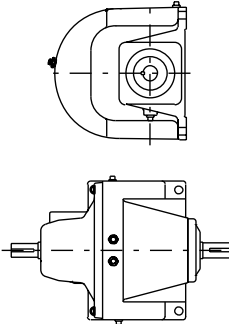
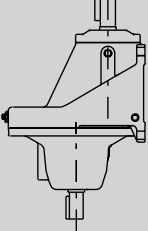
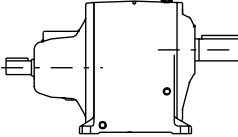
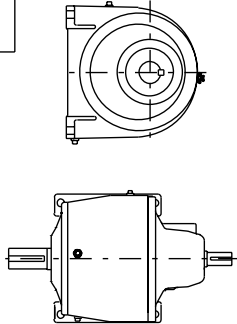
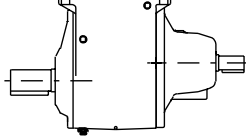
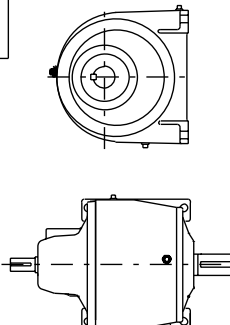
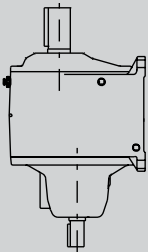
Double/Triple Reduction C-Face Reducer - Foot Mounted and Flange Mount

*A1		A2		A3	
A4		A5		A6	
*AF1		AF2		AF3	
AF4		AF5		AF6	
NOTE: Shaded boxes indicate mounting not recommended. These should be avoided. Use of product in positions not recommended negates time-in-use warranty.					

* Standard Mounting Position

APG Gearmotors

Single/Double/Triple Reduction Separate Reducers - Foot Mounted

* C1		C2		C3	
C4		C5	NOT AVAILABLE	C6	
* A1		A2		A3	
A4		A5	NOT AVAILABLE	A6	
NOTE: Shaded boxes indicate mounting not recommended. These should be avoided. Use of product in positions not recommended negates time-in-use warranty.					

* Standard Mounting Position

APG Installation and Maintenance

The summary information provided below is not intended to give complete information on installation, lubrication and maintenance. Complete details can be found in the instruction manual and lubrication tag provided with each unit.

Installation

Proper installation of DODGE APG will insure reliable service and maximum life. Key items to minimize possible failures include:

Gear Case Mounting-To insure uniform pressure mount gear case on flat surface. Use uniform torque when mounting bolts are tightened.

Shaft Overhung Loads-Excessive overhung loads due to over tightening of belts or chains can result in broken shafts and reduce bearing life or failure.

Couplings-Improper coupling alignment can result in excessive stresses on gear unit shaft and bearings.

Shock Loads-Excessive shock loads can also result in damaging stresses on shafting and bearings. See selection procedure, pages D2-4 & D2-5 for correct service factors.

Visual Inspection

In addition to lubrication and installation, regular inspection to insure tightness of bolts and screws, correct alignment of shaft couplings, no major oil leaks, no excessive heating and no unusual vibration or noises will guarantee maximum performance and life of your DODGE APG product.

Maintenance Summary For Dodge APG

Lubricant provided by the factory will operate (with no change required) up to one year in service. No initial oil change is required. This is one of the performance benefits provided by synthesized lubricant. As long as recommended lubricants are used, the once per year oil change should be continued for the life of the product. At each oil change, fittings provided should be greased using recommended lubricant. An installation and maintenance manual showing required oil levels for various mounting positions, and recommended lubricants is provided with each unit.

APG Lubrication

The correct amount of oil is important to the performance of DODGE APG. Each DODGE APG unit has a red oil level plug which indicates the proper oil level for a given mounting position. Changes in the mounting position will require relocation of the level plug and adding or draining lubricant to insure proper amount of lubricant. Check the oil level plug location diagrams in the installation and maintenance manual shipped with each reducer.

Proper lubrication of DODGE APG is extremely important if long trouble free operation is to be expected. Proper lubrication consists of:

1. Use of proper type and grade of lubricant.
2. Maintenance of correct oil level.
3. Drain, flush, and refill at the required intervals.

The DODGE APG is filled at the factory with synthesized oil to the correct level for the specified mounting position.

The following table lists the typical lubricant supplied in the APG reducer and the approximate amount of lubricant supplied in the standard floor mounted reducers.

Lubricant Capacities

Factory Lube	Gear Size	Volume Quarts	Volume Gallons	Quantity Of Lube	Part Number
MOBIL SHC-634 AGMA7 ISO460	S2A	0.4	0.1	1	411709-66-AE
	S3A	0.75	0.188	1	
	S4A	0.68	0.17	1	
	S5A	1.75	0.438	2	
	S6A	2.5	0.625	3	
	S7A	6.75	1.688	2	411709-66-AF
	S8A	10	2.5	3	
	D1A	0.4	0.1	1	411709-66-AE
	D2A	0.75	0.188	1	411709-66-AE
	D3A	1.25	0.313	1	
	D4A	1.63	0.408	2	411709-66-AE
	D5A	3.25	0.813	1	411709-66-AF
	D6A	5.5	1.375	2	
	D7A	14	3.5	4	
	D8A	19	4.75	5	
	T1A	0.4	0.1	1	411709-66-AE
	T2A	0.75	0.18	1	
	T3A	1.25	0.313	2	
	T4A	1.63	0.408	2	
	T5A	3.25	0.813	1	
	T6A	5.5	1.375	2	411709-66-AF
	T7A	14	3.5	4	
	T8A	19	4.75	5	

NOTE:

Mountings other than standard floor mounted reducers can require as much as two to three times the amount of lubricant shown for the standard assembly. Contact application engineering at 812-376-1100 for proper amounts.

* 411709-66-AE Is A Quart

* 411709-66-AF Is A Gallon

APG Thermal HP Ratings *

When the horsepower rating in the selection table appears in the shaded area, compare the actual HP required (without service factor) with the thermal HP capacity by referring to the tables below. The thermal HP capacity ratings are based upon an ambient temperature of 100° F and 100% duration of operation per hour. If other than 100° F ambient temp. and 100% duration of operation per hour, use the thermal factor chart and apply that value to the following formula:

$$\text{Equivalent Thermal HP Capacity} = \text{Thermal HP Rating} \times \text{Thermal Factor}$$

If the demand HP exceeds the equivalent thermal HP capacity, a larger unit will be required.

Thermal HP Capacities, 100° F Amb.

High Speed Shaft RPM	Red.	Nominal Ratio	Low Speed Shaft RPM	Basic Gearcase			
				Size 3	Size 4	Size 5	Size 6
3600	SINGLE	1.22	2951	18	20	24	26
		1.50	2400		21	26	27
		1.84	1957		21	28	29
		2.25	1600		22	29	32
		2.76	1304			31	34
		3.38	1065			32	36
		4.13	872			33	38
		5.06	711				41
	DOUBLE	4.13	872	18	18	21	22
		5.06	711	18	19	22	23
		6.20	581	18	20	24	26
		7.59	474		21	27	27
		9.30	387		21	28	29
		11.40	316		22	29	32
		14.00	258			31	34
		17.10	211			32	36
		20.90	172			33	38
		25.60	141				41

Thermal HP Capacities, 100 F Amb.

High Speed Shaft RPM	Red.	Nominal Ratio	Low Speed Shaft RPM	Basic Gearcase				
				Size 4	Size 5	Size 6	Size 7	Size 8
2500	Single	1.22	2049	23	32	36	52	56
		1.50	1667	23	33	38	56	60
		1.84	1359		34	40	60	63
		2.25	1111		35	41	64	67
		2.76	906			42	68	71
		3.38	740			44	73	80
	Double	4.13	605				78	87
		5.06	494					92
		4.13	609	21	28	30	50	NA
		5.06	494	22	30	32	51	NA
		6.20	403	23	32	36	52	56
		7.59	329	23	33	38	56	60
		9.30	269		34	40	60	63
		11.4	219		35	41	64	67
		14.00	179			42	68	71
		17.10	146			44	73	80
		20.90	120				78	87
		25.60	99					92

* Units not thermally limited meet 120° F Ambient and 100% duration condition. Size 1 and 2 reducers are not thermally limited.

Thermal Factors for Ambient Temperatures

Ambient Temp. °F	Duration Of Operation Per Hour				
	100%	80%	60%	40%	20%
0	2.01	2.52	3.01	3.52	4.02
20	1.81	2.27	2.71	3.16	3.61
40	1.60	2.00	2.41	2.80	3.20
60	1.41	1.76	2.11	2.46	2.82
80	1.20	1.51	1.81	2.11	2.41
100	1.00	1.25	1.50	1.75	2.00
120	.81	1.01	1.20	1.41	1.61

Thermal HP Capacities, 100° F Amb.

High Speed Shaft RPM	Red.	Nominal Ratio	Low Speed Shaft RPM	Basic Gearcase				
				Size 4	Size 5	Size 6	Size 7	Size 8
1750	Single	1.22	1430		34	41	66	67
		1.50	1170		36	43	75	75
		1.84	950			45	75	80
		2.25	780			47	79	87
		2.76	640				81	91
		3.38	520					95
		4.13	420					100
	Double	4.13	420	22	31	40	60	NA
		5.06	350	23	32	40	61	NA
		6.20	280		34	41	66	67
		7.59	230		35	43	75	75
		9.30	190			45	75	80
		11.40	150			47	79	87
		14.00	125				81	91
		17.10	100					95
		20.90	84					100

Thermal HP Capacities, 100° F Amb.

High Speed Shaft RPM	Red.	Nominal Ratio	Low Speed Shaft RPM	Basic Gearcase			
				Size 5	Size 6	Size 7	Size 8
1460	Single	1.22	1172	37	44	73	80
		1.50	953		46	76	84
		1.84	777		48	81	91
		2.25	636			82	95
		2.76	519				100
		3.38	432				104
	Double	4.13	354	34	39	66	NA
		5.06	289	35	42	69	NA
		6.20	231	37	44	73	80
		7.59	188		46	76	84
		9.30	154		48	81	91
		11.40	126			82	96
		14.00	103				100
		17.10	85				104

Thermal HP Capacities, 100° F Amb.

High Speed Shaft RPM	Red.	Nominal Ratio	Low Speed Shaft RPM	Basic Gearcase		
				Size 6	Size 7	Size 8
1170	Single	1.22	959	44	78	88
		1.50	780		81	92
		1.84	636		83	96
		2.25	520			100
		2.76	424			103
		4.13	283	39	73	NA
	Double	5.06	231	42	76	NA
		6.20	189	44	78	88
		7.59	154	47	81	92
		9.30	126		83	96
		11.40	103			100
		14.00	84			103

APG

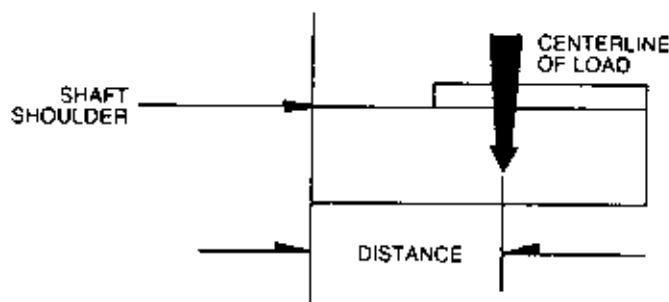
Load Location Factors - Low Speed Shafts

Load Location Factors for Low Speed Shafts (Output)

Distance in Inches	Basic Gearcase Size					
	2		3		4	
	Single	D & T	Single	D & T	Single	D & T
0.50	-	-	-	-	-	-
0.75	0.868	0.803	-	-	-	-
1.00	1.000	0.934	.895	.792	.895	.720
1.25	1.132	1.066	1.000	.896	1.000	.813
1.50	1.263	1.197	1.105	1.000	1.105	.907
1.75	1.395	1.328	1.210	1.104	1.210	1.000
2.00	-	1.459	1.315	1.208	1.315	1.093
2.25	-	-	1.420	1.313	1.420	1.187
2.50	-	-	-	1.417	-	1.280
2.75	-	-	-	1.521	-	1.373
3.00	-	-	-	-	-	1.466

Distance in Inches	Basic Gearcase Size							
	5		6		7		8	
	Single	D & T	Single	D & T	Single	D & T	Single	D & T
1.00	.833	.643	.768	.600	.699	.530	.619	.638
1.25	.917	.723	.834	.667	.759	.587	.670	.686
1.50	1.000	.802	.901	.733	.819	.644	.721	.734
1.75	1.083	.881	.967	.800	.880	.701	.772	.783
2.00	1.167	.960	1.033	.867	.940	.758	.822	.831
2.25	1.250	1.040	1.099	.933	1.000	.815	.873	.879
2.50	1.333	1.119	1.166	1.000	1.060	.872	.924	.928
2.75	1.417	1.198	1.232	1.067	1.120	.929	.975	.976
3.00	-	1.277	1.298	1.133	1.181	.986	1.025	1.024
3.50	-	1.436	1.430	1.267	1.301	1.100	1.127	1.121
4.00	-	1.594	-	1.400	1.422	1.215	1.228	1.217
4.50	-	-	-	1.533	1.542	1.329	1.330	1.314
5.00	-	-	-	-	-	1.443	1.431	1.411
5.50	-	-	-	-	-	1.557	1.533	1.507
6.00	-	-	-	-	-	-	-	1.604
6.50	-	-	-	-	-	-	-	1.700
7.00	-	-	-	-	-	-	-	1.797

In order to minimize overhung load and increase bearing life, load centerline should be located as close to the shaft shoulder as possible.



For applications where OHL exceeds cataloged values contact application engineering at (812) 376-1100 or use the reducer selection tables to select the next larger size gearcase.

APG

Load Location Factors - High Speed Shafts

Load Location Factors for High Speed Shafts (Input)

Distance in Inches	Basic Gearcase Size					
	3	4	5	6	7	8
0.50	-	-	-	-	-	-
0.75	.923	.862	-	-	-	-
1.00	1.077	1.000	.889	.805	.715	.719
1.25	1.231	1.138	1.000	.902	.796	.782
1.50	1.385	1.276	1.111	1.000	.878	.844
1.75	1.538	1.414	1.222	1.098	.959	.906
2.00	-	1.552	1.333	1.195	1.041	.969
2.25	-	-	1.444	1.293	1.122	1.031
2.50	-	-	1.556	1.391	1.204	1.094
2.75	-	-	-	1.488	1.285	1.156
3.00	-	-	-	1.586	1.367	1.218
3.50	-	-	-	-	1.530	1.343
4.00	-	-	-	-	-	1.468

APG Gearmotor Weights *

Foot Mount

HP	Size																	
	3			4			5			6			7			8		
	S	D	T	S	D	T	S	D	T	S	D	T	S	D	T	S	D	T
1/3			82															
1/2			82			97												
3/4			82			97			172									
1	57	76	82			97			172									
1-1/2	62	81	87			102			177			240						
2	72	91	97	80	103	112			187			250						
3	86	105		94	117	126	135	184	201			264						
5	90	109		98	121		139	188	205			268						
7-1/2	161	179		168	192		207	256	273	239	314	336			578			838
10	202	221		210	233		244	293		276	351	373			619			879
15				243	266		277	326		309	384	406	461	600	652			912
20				325	349		360	409		392	467		539	678	730			990
25							476	524		508	582		655	794	846	735	1039	1106
30							476	524		508	582		655	794	846	735	1039	1106
40										646	721		796	935		875	1180	1247
50										646	721		796	935		875	1180	1247
60										895	969		1046	1184		1125	1429	1497
75										895	969		1046	1184		1125	1429	1497

Flange Mount

HP	Size											
	3			4			5			6		
	S	D	T	S	D	T	S	D	T	S	D	T
1/3			93									
1/2			93			114						
3/4			93			114			194			
1	66	87	93			114			194			
1-1/2	71	92	98			119			199			287
2	81	102	108	88	120	129			209			297
3	95	116		102	134	143	150	206	223			311
5	99	120		106	138		154	210	227			315
7-1/2	169	190		177	209		222	278	295	265	361	363
10	211	232		219	250		259	315		302	398	420
15				252	283		292	348		335	431	453
20				334	366		375	431		418	514	
25							491	546		534	629	
30							491	546		534	629	
40										672	768	
50										672	768	
60										921	1016	
75										921	1016	

* All weights in lbs.

APG Reducer Weights *

C-Face Reducers Foot Mount

Size		56c/140TC	Frame Size				
			180/210TC	250TC	280TC	320TC	360TC
2	S	32	50				
	D	43					
	T	46					
3	S	46	60				
	D	66	80				
	T	71					
4	S	51	66	66			
	D	80	90	100			
	T	90	100				
5	S	100	104	115	125		
	D	141	151	155	165		
	T	155	165				
6	S	125	135	145	156	191	196
	D	215	225	225	235	265	270
	T	225	235	245	255		
7	S		300	300	315	365	365
	D		440	440	535	535	540
	T		485	535	535	535	540
8	S			695	695	815	820
	D			740	740	815	820
	T		750	750	845	855	855

C-Face Reducers Flange Mount

Size		Frame Size					
		56c/140TC	180/210TC	250TC	280TC	320TC	360TC
2	S	41	59				
	D	52					
	T	56					
3	S	56	68				
	D	80	90				
	T	85					
4	S	62	76	76			
	D	95	101	111			
	T	107	117				
5	S	110	114	125	135		
	D	152	162	166	176		
	T	172	182				
6	S	135	145	155	166	201	206
	D	226	235	235	246	276	281
	T	242	253	271	273		

Separate Reducers

Size																	
3			4			5			6			7			8		
S	D	T	S	D	T	S	D	T	S	D	T	S	D	T	S	D	T
41	70	75	48	80	90	95	155	175	175	255	265	340	479	530	420	724	790

*All weights in lbs.

XL Right Angle Reducers And Gearmotors

Features/Benefits	D3-2
Specification	D3-4
How To Order	D3-6
Nomenclature	D3-10
Selection	
Right Angle C-Face Reducers	D3-12
Right Angle Gearmotors.	D3-28
Dimensions	
Right Angle Reducer	D3-37
Right Angle Gearmotors.	D3-58
Mounting Positions	D3-90
Engineering/Technical	D3-93

XL Parallel Reducers And Gearmotors

Features/Benefits	D3-3
How To Order	D3-9
Nomenclature	D3-11
Selection	D3-66
Dimensions	D3-85
Mounting Positions	D3-92
Installation, Lubrication and Maintenance.	D3-95

XL Right Angle Reducers and Gearmotors



1/4 to 20 HP
Ratio 5:1 to 336:1

Options

- Broad range of integral and C-face Reliance motors.
- Flanged outputs for direct mounting.
- Bolt-on feet for ceiling or vertical mounting.
- Brake additions.
- XT and E-Z Kleen packages.

Designed For Your Needs

- Three-piece coupling makes NEMA C-face motor removal and assembly easy.
- Cast iron construction is corrosion resistant.
- Optional washdown enclosure.
- Hardened steel seal sleeves protect input and output shafts from seal wear.
- Factory-filled lubricant.
- USDA-approved finish.

The MASTER right angle gear product line is composed of two basic configurations.

1. **THE GEARMOTOR** - uses a partial motor direct connected to the reducer splined input shaft by means of a semi-rigid coupling.
2. **THE C-FACE REDUCER**- utilizes a standard C-face motor, adapter and flexible coupling, connecting to the reducer.

Gearing is designed with a steel worm, integral to the splined input shaft, mating with a bronze worm gear. The second stage gears, where used, are helical, cut from steel, shaved to close tolerances and then case hardened.

The single reduction and combination gearmotor is designed with ball bearings on the splined input shafts and tapered roller bearings on intermediate and final output shaft.



Integral Gearmotor Construction for more compactness

XL Parallel Reducers and Gearmotors

Options:

- Broad range of integral and C-Face Reliance motors
- Flanged outputs for direct mounting
- XT and Easy Clean (Level 1 and Level 2) enclosures for severe applications

Contact your Dodge representative for information on fully assembled systems including motors, brakes, gearboxes, couplings, sprockets, and pulleys.

Designed for your needs:

- Three-piece coupled input makes NEMA C-Face motor removal and assembly easy
- Cast iron construction is corrosion resistant.
- Hardened steel seal sleeves protect input and output shafts from seal wear
- Factory-filled with lubricant for the proper mounting position
- USDA-approved finish and lubricants

The **MASTER XL** parallel product line is composed of two basic input configurations;

1. **THE GEARMOTOR** - uses a partial motor direct connected to the reducer splined input shaft by means of a semi-rigid coupling
2. **THE C-FACE REDUCER** - utilizes a standard C-Face motor adapter and flexible coupling, connecting to the reducer.

MASTER XL parallel reducers are available in single, double and triple reduction ratios from 2.25:1 to 129.7:1. Horsepower capabilities range from fractional to 10 HP. These reducers can be mounted using the integral cast foot or by an optional output flange.



XL Right Angle Gearing

The speed reducer shall be suitable for integral gearmotor construction, readily adaptable for C-face mounting, in either integrally cast feet, output flange, multi-mount, or J-mount configurations, and available with single worm or worm/helical reduction ratios.

The reducer housing and covers shall be constructed of corrosion resistant, class 30 gray iron with cast internal ribbing for added strength. All gear and bearing housings shall be either doweled or tenoned, and precision machined to assure accurate alignment for all gear sets.

The input worm and worm shaft shall be one solid piece and straddle mounted in bearings for rigid and accurate support. The worm shafts shall be either rolled and case carburized, or milled, case carburized and ground for accuracy and durability.

For combination right angle reducers, the worm gear set shall be located in the first stage of gearing to insure greater efficiency, higher torque and more quiet operation. Also, the

helical gear of the second stage of the combination reducers shall be crown shaved to provide an ellipsoid tooth form to eliminate tooth end bearing, and assure meshing in the strongest tooth area. These gears shall be case carburized to insure high surface durability and resilient tooth core for greater impact resistance and longer service life.

Reducer bearings shall be the tapered roller and ball type and provide a minimum 25,000 hour average life. Output shaft bearings to be rugged roller bearings for high overhung load capability.

All seals shall be of the spring loaded type made of nitrile compound. The input and output oil seals shall ride on accurately machined and plunge ground sleeves to simplify maintenance and reduce shaft replacement.

Reducer gears and bearings shall be splash lubricated. Reducers are to be supplied with a high quality petroleum based lubricant.

XL Parallel Reducers and Gearmotors

The **MASTER XL** speed reducer shall be suitable for integral gearmotor construction, readily adaptable for C-Face motor mounting, in either integrally cast feet or output flange configurations and available in single, double or triple reduction ratios.

The reducer housing and covers shall be constructed of corrosion resistant, class 30 grey iron with cast internal ribbing for added strength. All gear and bearing housings shall be either doweled or tenoned and precision machined to assure accurate alignment for all gear sets.

All helical gearing shall be crown shaved to provide an ellipsoid tooth form to eliminate tooth end bearing, and assure meshing in the strongest possible tooth area. These gears shall be case carburized to insure high surface durability and resilient tooth

core for greater impact resistance and longer service life. Reducer bearings shall be the tapered roller and ball type and provide a minimum 25,000 hour average life. Output shaft bearings to be rugged roller bearings for high overhung load capability.

All seals shall be of the spring loaded type made of nitrile compound. The input and output oil seals shall ride on accurately machined and plunge ground sleeves to simplify maintenance and reduce shaft replacement.

Reducer gears and bearings shall be splash lubricated. Reducers are supplied with a high quality petroleum based lubricant.

XL Right Angle and Gearmotors

Many of the XL reducers and gearmotors have part numbers that can be found on the selection pages. Refer to the part number when ordering. Always specify a mounting position if other than standard, and any modifications or accessories, if required.

If a part number is not listed on the selection table please provide the following information when placing your order.

1. Motor H.P., frame enclosure, phase, voltage and frequency.
2. Reducer or gearmotor size.
3. Output RPM and gear ratio.
4. Mounting position.
5. Any modifications or accessories.

SELECTION FACTORS

To apply a Reducer or Gearmotor properly, the following facts must be considered:

1. The kind of load, reversing, amount of shock, duty cycle, etc.
2. Type of transmission: direct connected, sprocket and chain, pinion and gear, V-belt, or flat belt.
3. The point of application of the load if over-hung.
4. Possibility of stalling.
5. Retarding torque of Unibrake or other brake.
6. Size of flywheel if used or WK² or inertia effect of the load.
7. Surrounding conditions, normal, dusty, outdoor, hazardous vapor or dust, moisture, or acid or alkali fumes, or abnormal ambient temperatures.
8. Mounting: floor, sidewall, ceiling, vertical or inclined.
9. Electrical characteristics of the motor.
10. Complete duty cycle.
11. Horsepower or torque required.
12. Output shaft rpm.

SELECTION EXAMPLE: A C-face right angle reducer is required to drive a continuous belt conveyor. The prime mover is a 1750 rpm electric motor. The conveyor will see a moderate amount of shock loading. The reducer output shaft must drive the conveyor at approximately 20 rpm. Conveyor load averages 1500 in. lbs. (750 lbs. over 2" radius pulley) and the duty cycle is 24 hours per day.

STEP 1: Reducer Service Factor Table on this page indicates a 1.50 service factor. (Under headings: electric motor, 24 hours per day service and medium load classification). Equivalent load = 1500 in. lbs. x 1.50 = 2250 in. lbs. Ratio is calculated by dividing input speed (1750 rpm) by required output speed (in this case, 20 rpm). $1750 \div 20 = 87.5$ ratio.

STEP 2: To determine minimum HP required refer to the Right Angle Gearmotor tables on pages D2-28 to D2-36. In our example, find the output torque rating for 86:1 ratio that exceeds our requirement of 1,500 in. lbs. Refer to page

D2-30. Note the torque value of 1,766 in. lbs. exceeds our requirement. Also make note of the reducer size... CG16A.

STEP 3: Verify selected reducer is rated for 1.5 Service Factor. As we determined earlier, this will require a torque capability of 2,250 in. lbs. Refer to the rating table for size CM16 reducers on page D2-20. The torque rating for a 86:1 ratio at 1750 RPM is 2,522 in. lbs. which exceeds our requirement.

STEP 4: Select motor frame size and refer to appropriate part number.

STEP 5: If the output shaft is connected by other than a flexible coupling, calculate the OVERHUNG LOAD.

OVERHUNG LOAD

To determine overhung load, divide the torque required by the pitch radius of the sprocket, sheave, etc. and multiply by the appropriate factor as follows:

Chain Drive	1.00	V-Belt	1.50
Synchronous Belt Drive	1.10	Flat Belt	2.50
Spur or Helical Gear	1.25		

The calculated overhung load must not exceed the Output Shaft rating.

For loads acting at more than one shaft diameter from bearing housing, use following conversion factors:

Distance in Shaft Diameters From Brg. Hsg.	Multiply OHL Capacity By This Factor
1 D	1.0
2 D	.65
3 D	.45
4 D	.35
5 D	.30

Reducer Service Factors

Prime Mover	Duration of Service Per Day	Driven Machine Load Classification		
		Uniform	Medium Shock	Heavy Shock
Electric Motor	Occasional 1/2 hr.	0.80	0.90	1.00
	Intermittent 2 hrs.	0.90	1.00	1.25
	10 hours	1.00	1.25	1.50
	24 hours	1.25	1.50	1.75
Electric Motor With Frequent Starts and Stops	Occasional 1/2 hr.	0.90	1.00	1.25
	Intermittent 2 hrs.	1.00	1.25	1.50
	10 hours	1.25	1.50	1.75
	24 hours	1.50	1.75	2.00
Multi-cylinder Internal Combustion Engine	Occasional 1/2 hr.	0.90	1.00	1.25
	Intermittent 2 hrs.	1.00	1.25	1.50
	10 hours	1.25	1.50	1.75
	24 hours	1.50	1.75	2.00
Single Cylinder Internal Combustion Engine	Occasional 1/2 hr.	1.00	1.25	1.50
	Intermittent 2 hrs.	1.25	1.50	1.75
	10 hours	1.50	1.75	2.00
	24 hours	1.75	2.00	2.25

XL Reducers and Gearmotors

Service Factor Classifications

Application	Hrs. Per Day		Application	Hrs. Per Day		Application	Hrs. Per Day	
	8-10	24		8-10	24		8-10	24
AGITATORS			CONVEYOR-HEAVY DUTY			GENERATORS-		
Pure Liquids	I		NOT UNIFORMLY FED (Cont'd)			(Not Welding)	I	II
Liquids and Solids	II	II	Screw	II	II	HAMMER MILLS	III	III
Liquids-Variable Density	II	II	Shaker	III	III	LAUNDRY WASHERS		
BLOWERS			CRANES & HOISTS			Reversing	II	II
Centrifugal	I	II	Main Hoists			LAUNDRY TUMBLERS	II	II
Lobe	II	II	Heavy Duty	III	III	LINE SHAFTS		
Vane	I	II	Medium Duty	II	II	Driving Processing		
BREWING & DISTILLING			Reversing	II	II	Equipment	II	II
Bottling Machinery	I	II	Skip Hoists	II	II	Other Line Shafts	I	II
Brew Kettles-Continuous Duty	-	II	Travel Motion	II	II	LUMBER INDUSTRY		
Cookers-Continuous Duty	-	II	Trolley Motion	II	II	Barkers-Hydraulic		
Mash Tubs-Continuous Duty	-	II	CRUSHERS			Mechanical	II	II
Scale Hopper			Ore	III	III	Burner Conveyor	II	II
Frequent Starts	II	II	Stone	III	III	Chain Saw and Drag Saw	III	III
CAN FILLING MACHINES	I	II	DREDGES			Chain Transfer	III	III
CANE KNIVES	II	II	Cable Reels	II	-	Craneway Transfer	III	III
CAR DUMPERS	III	-	Conveyors	II	II	De.Barking Drum	III	III
CAR PULLERS	II	-	Cutter Head Drives	III	III	Edger Feed	II	II
CLARIFIERS	I	II	Jig Drives	III	III	Gang Feed	II	II
CLASSIFIERS	II	II	Maneuvering Winches	II	-	Green Chain	II	II
CLAY WORKING MACHINERY			Pumps	II	II	Line Rolls	III	III
Brick Press	III	III	Screen Drive	III	III	Log Deck	III	III
Briquette Machine	III	III	Stackers	II	II	Log.Haul-Incline	III	III
Clay Working Machinery	II	II	Utility Winches	II	-	Log-Haul-Well Type	III	III
Pug Mill	II	II	ELEVATORS			Log Turning Device	III	III
COMPRESSORS			Bucket-Uniform Load	I	II	Main Log Conveyor	III	III
Centrifugal	I	II	Bucket-Heavy Load	II	II	Off Bearing Rolls	II	II
Lobe	II	II	Bucket-Continuous	I	II	Planer Feed Chains	II	II
* Reciprocating			Centrifugal-Discharge	I	II	Planer Floor Chains	II	II
Multi-Cylinder	II	II	Escalators	I	I	Planer Tilting Hoist	II	II
Single Cylinder	III	III	Freight	II	II	Re-Saw Merry-Go-Round		
CONVEYORS-UNIFORMLY			Gravity Discharge	I	II	Conveyor	II	II
LOAD OR FED			Man Lifts	-	-	Roll Cases	III	III
Apron	I	II	‡ Passenger	‡	‡	Slab Conveyor	III	III
Assembly	I	II	Service Hand Lift	III	-	Small Waste Conveyor		
Belt	I	II	FANS			belt	I	II
Bucket	I	II	Centrifugal	I	II	Small Waste Conveyor		
Chain	I	II	Cooling Towers			chain	II	II
Flight	I	II	Induced Draft	II	II	Sorting Table	II	II
Oven	I	II	‡ Forced Draft	‡	‡	Tipple Hoist Conveyor	II	II
Screw	I	II	Induced Draft	II	II	Tipple Hoist Drive	II	II
CONVEYOR-HEAVY DUTY			*Large (Mine. etc.)	II	II	Transfer Conveyor	II	II
NOT UNIFORMLY FED			Large Industrial	I	II	Transfer Rolls	II	II
Apron	II	II	Light (Small Diameter)	I	II	Tray Drive	II	II
Assembly	II	II	FEEDERS			Trimmer Feed	II	II
Belt	II	II	Apron	II	II	Waste Conveyor	II	II
Bucket	II	II	Belt	II	II	MACHINE TOOLS		
Chain	II	II	Disc	I	II	Bending Roll	-	II
Flight	II	II	Reciprocating	III	III	Notching Press-Belt Driven	I	II
‡ Live Roll	‡	‡	Screw	II	II	Plate Planer	III	III
Oven	II	II	FOOD INDUSTRY			Punch Press-Gear Driven	III	III
Reciprocating	III	III	Beet Slicer	II	II	Tapping Machines	-	III
			Cereal Cooker	I	II	Other Machine Tools	-	III
			Dough Mixer	II	II	Main Drives	II	II
			Meat Grinders	II	II	Auxiliary Drives	I	II

- (1) This list is not all-inclusive and each individual gearmotor application should be checked to determine if any unusual operation conditions will be encountered
- * Classes listed are minimum and normal conditions are assumed in view of varying load conditions. It is suggested that these applications be carefully reviewed before final selection is made.
- ‡ Check safety codes and consult Application Engineering.

XL Reducers and Gearmotors

Service Factor Classifications

Application	Hrs. Per Day		Application	Hrs. Per Day		Application	Hrs. Per Day	
	8-10	24		8-10	24		8-10	24
METAL MILLS			PAPER MILLS Cont'd.			SEWAGE DISPOSAL EQUIPMENT Cont'd.		
Draw-Bench-Carriage	III	III	Cutters Platers	-	III	Collectors Circuline or Straightline	I	II
Draw-Bench-Main Drive	II	III	Cylinders	-	II	Dewatering Screens	II	II
Forming Machines	III	III	*Dryers	-	II	Grit Collectors	I	II
‡ Pinch Dryer & Scrubber			Felt Stretcher	-	II	Scum Breakers	II	II
Rolls Reversing	‡	‡	Fell Whipper	-	III	Slow or Rapid Mixers	II	II
*Slitters	II	II	Jordans	-	III	Sludge Collectors	I	II
Table Conveyors	-	-	Log Haul	-	III	Thickeners	II	II
Non-Reversing	II	II	*Presses	-	II	Vacuum Filters	II	II
*Reversing	-	-	Pulp Machines	-	II			
Wire Drawing & Flattening Machine	II	II	Reel	-	II	SCREENS		
Wire Winding Machine	-	II	*Stock Chests	-	II	Air Washing	I	II
			*Suction Roll	-	II	Rotary-Stone or Gravel	II	II
			Washers and Thickeners	-	II	Traveling Water Intake	I	II
			Winders	-	II			
MILLS ROTARY TYPE			PRINTING PRESSES	I	II	SLAB PUSHERS	II	II
*Ball	II	II				STEERING GEAR	II	II
*Cement Kilns	-	II	PULLERS			STOKERS	I	II
Dryers & Coolers	II	II	Barge Haul	II	III			
Kilns	II	II	PUMPS			TEXTILE INDUSTRY		
*Pebble	II	II	Centrifugal	I	II	Batchers	II	II
Rod	III	III	*Proportioning	II	II	Calenders	II	II
Tumbling Barrels	III	III	Reciprocating			*Card Machines	II	II
MIXERS			Single Acting			Cloth Finishing Machines		
Concrete-Continuous	II	II	3 or more Cylinders	II	II	(washers pads enters dryers calenders. etc.)	II	II
Concrete-Intermittent	I	II	Double Acting			Dry Cans	II	II
Constant Density	I	II	2 or more Cylinders	II	II	Dyeing Machinery	II	II
Variable Density	II	II	Single Acting			‡ Knitting Machines		
OIL INDUSTRY			or 2 Cylinders	‡	‡	(Looms. etc.)	‡	‡
Chillers	II	II	*Double Acting			Looms	II	II
‡ Oil Well Pumping	‡	‡	Single-Cylinder	‡	‡	Mangles	II	II
Paraffin Filter Press	II	II	Rotary-Gear Type	I	II	Nappers	II	II
Rotary Kilns	II	II	Lobe Vane	I	II	Range Drives	‡	‡
PAPER MILLS			RUBBER INDUSTRY			Soapers	II	II
Agitators (Mixes)	II	II	Mixer	III	III	Spinners	II	II
Barker Auxiliaries Hydraulic	-	III	*Rubber Calender	II	II	Tenter Frames	II	II
Barker Mechanical	-	III	*Rubber Mill (2 or more)	II	II	Winders (other than Batchers)	II	II
Barking Drum	II	II	*Sheeter	II	II	Yard Preparatory Machines		
*Beater & Pulpers	-	II	Tire Building Machines	II	II	(Cards Spinners Slashers. etc.)	II	II
Bleacher	I	II	Tire & Tube Press Openers	I	I			
*Calenders	-	II	Tubers and Strainers	II	II	WINDLASS	II	II
Calenders-Super	-	III	SEWAGE DISPOSAL EQUIPMENT					
Converting Machines Excec.			Bar Screens					
Cutters, Platers	-	II	Chemical Feeders	I	II			
Conveyors	-	II						
*Coach	-	II						

(1) This list is not all-inclusive and each individual gearmotor application should be checked to determine if any unusual operation conditions will be encountered

* Classes listed are minimum and normal conditions are assumed in view of varying load conditions. It is suggested that these applications be carefully reviewed before final selection is made.

‡ Check safety codes and consult Application Engineering.

XL Parallel Reducers and Gearmotors

Selection tables appear on pages D2-66 - D2-84. These tables list maximum input HP, output speeds, ratios, OHL capabilities and output HP.

Many of the XL reducers and gearmotors have part numbers that can be found on the selection pages. Refer to the part number when ordering. Always specify a mounting position if other than standard, and any modifications or accessories, if required.

If a part number is not listed on the selection table, please provide the following information when placing your order:

- Motor HP, frame enclosure, phase/frequency/voltage
- Reducer or gearmotor size
- AGMA class and application
- Output RPM and/or gear ratio
- Mounting position
- Any required modifications or accessories

Selection Factors:

Correct application of a gearmotor requires consideration of the following factors:

1. Type of load, reversing, amount of shock, duty cycle, etc. Reference Table 2.
2. The point of application of the load, if overhung.
3. Possibility of stalling.
4. Retarding torque of brake
5. Size of flywheel if used or WK2 or inertia effect of the load.
6. Surrounding conditions, normal, dusty, outdoor, hazardous vapor or dust, moisture, or acid or alkali fumes, or abnormal ambient temperatures
7. Mounting: floor, ceiling, vertical or inclined ñ Reference mounting position charts

8. Electrical characteristics of the motor
9. Complete duty cycle
10. Horsepower or torque required
11. Output shaft RPM
12. Type of transmission: direct connected, sprocket and chain, pinion and gear, V-belt or flat belt.

Table 1: AGMA Gear Classification

Prime Mover	Duration of Service per Day	Driven Machine Loads		
		Uniform	Medium Stock	Heavy Stock
		Class ♦		
Electric Motor	Occasional 1/2 Hour	I	I	I
	Intermittent 2 Hours	I	I	II
	10 Hours	I	II	III
	24 Hours	II	III	III
Electric Motor with Frequent Starts/Stops	Occasional 1/2 Hour	I	I	II
	Intermittent 2 Hours	I	II	III
	10 Hours	II	III	III
	24 Hours	III	III	III

♦ See Table 2 for explanation

Table 2: AGMA Load Classification

Class	Definition	Equiv Service Factor
I	Steady loads not exceeding normal rating of the motor and 8 hours a day service. Moderate shock loads where service is intermittent	1.0
II	Steady loads not exceeding the normal rating of the motor for 24 hours a day. Moderate repetitive shock loads for 8 hours a day.	1.4
III	Moderate repetitive shock loads for 24 hours a day. Heavy repetitive shock loads for 8 hours a day	2.0

XL Reducers and Gearmotors

In addition to HP and output speed, MASTER XL Reducers and Gearmotors are identified by a series of numbers and letters as follows:

	<u>140</u>	<u>W</u>	<u>M</u>	<u>21</u>	<u>A</u>	<u>30</u>
MOTOR FRAME _____						
Motor Frames 56 through 215T are preselected in selection tables.						
TYPE OF GEAR TRAIN _____						
W - Single reduction worm Right Angle gearing C - Double reduction worm/helical Right Angle gearing						
TYPE OF GEAR UNIT _____						
G - Gearmotor M - C-face Reducer						
GEAR UNIT SIZE _____						
12 = 1.5" Center Distance 16 = 2" Center Distance 1st stage 21 = 2.62" Center Distance 1st stage 28 = 3.5" Center Distance 1st stage 40 = 5.0" Center Distance						
GEAR UNIT MOUNTING _____						
A - Integrally cast foot B - Multimount F - Footless Flanged Gearcase J - J Mount						
RATIO _____						

XL Parallel Reducers and Gearmotors

Introduction

DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

	56	S	M	16	F	2	5.06	C1
MOTOR FRAME	_____							
56 140 180 210								
TYPE OF GEAR TRAIN	_____							
S - Single Reduction D - Double Reduction T - Triple Reduction								
TYPE OF GEAR UNIT	_____							
G - Gearmotor M - C-Face Reducer								
GEAR UNIT SIZE	_____							
16 = 2" Center Distance 21 = 2-5/8" Center Distance 28 = 3-1/2" Center Distance								
TYPE OF MOUNTING	_____							
A - Foot Mounted F - Flange Mounted								
AGMA CLASS	_____							
(Only used for Integral Gearmotors) 2 - AGMA Class II 3 - AGMA Class III								
RATIO	_____							
Single Reduction - 2.25:1 to 6.20:1 Double Reduction - 5.06:1 to 31.4:1 Triple Reduction - 20.9:1 to 129.7:1								
MOUNTING POSITION	_____							
SINGLE REDUCTION: C1 C2 C3 C4 C5 C6								
DOUBLE/TRIPLE REDUCTION: A1 A2 A3 A4 A5 A6								

XL Right Angle C-Face Reducers

SINGLE REDUCTION SIZE WM12

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
5	Output RPM	500	350	232	172	56C	M60800
	Output Torque, in. lb.	166	194	222	248		
	Output HP (Max.)	1.32	1.08	.82	.68		
	Input HP (Max.)	1.51	1.23	.95	.80		
	OHL Output Shaft	455	430	415	390		
7.5	Output RPM	333	233	155	115	56C	M60801
	Output Torque, in. lb.	198	221	219	220		
	Output HP (Max.)	1.05	.82	.54	.40		
	Input HP (Max.)	1.23	1.00	.65	.50		
	OHL Output Shaft	430	410	410	415		
10	Output RPM	250	175	116	86	56C	M60802
	Output Torque, in. lb.	202	234	280	324		
	Output HP (Max.)	.80	.65	.52	.44		
	Input HP (Max.)	1.00	.80	.64	.55		
	OHL Output Shaft	430	405	365	320		
12.7	Output RPM	197	138	91	68	56C	M60803
	Output Torque, in. lb.	210	257	296	316		
	Output HP (Max.)	.66	.56	.43	.34		
	Input HP (Max.)	.82	.69	.54	.43		
	OHL Output Shaft	420	385	350	330		
15	Output RPM	167	117	77	57	56C	M60804
	Output Torque, in. lb.	195	227	271	308		
	Output HP (Max.)	.52	.42	.33	.28		
	Input HP (Max.)	.67	.55	.45	.38		
	OHL Output Shaft	430	410	375	340		
18	Output RPM	139	97	64	48	56C	M60805
	Output Torque, in. lb.	211	261	313	338		
	Output HP (Max.)	.46	.40	.32	.26		
	Input HP (Max.)	.61	.53	.42	.34		
	OHL Output Shaft	420	380	335	300		
20	Output RPM	125	87	58	43	56C	M60806
	Output Torque, in. lb.	203	245	301	341		
	Output HP (Max.)	.40	.34	.28	.23		
	Input HP (Max.)	.55	.50	.39	.33		
	OHL Output Shaft	425	400	350	295		
25	Output RPM	100	70	46	34	56C	M60807
	Output Torque, in. lb.	217	266	297	292		
	Output HP (Max.)	.34	.30	.22	.16		
	Input HP (Max.)	.50	.41	.33	.23		
	OHL Output Shaft	410	380	350	350		
30	Output RPM	83	58	39	29	56C	M60808
	Output Torque, in. lb.	190	242	295	338		
	Output HP (Max.)	.25	.22	.18	.15		
	Input HP (Max.)	.40	.36	.33	.26		
	OHL Output Shaft	435	395	350	300		
40	Output RPM	63	44	29	22	56C	M60809
	Output Torque, in. lb.	212	257	315	352		
	Output HP (Max.)	.21	.18	.14	.12		
	Input HP (Max.)	.36	.31	.25	.22		
	OHL Output Shaft	420	385	330	275		
50	Output RPM	50	35	23	17	56C	M60810
	Output Torque, in. lb.	208	257	272	267		
	Output HP (Max.)	.16	.14	.10	.07		
	Input HP (Max.)	.30	.27	.19	.15		
	OHL Output Shaft	420	385	360	380		
60	Output RPM	42	29	19	14	56C	*
	Output Torque, in. lb.	210	204	197	194		
	Output HP (Max.)	.14	.09	.06	.04		
	Input HP (Max.)	.27	.19	.13	.10		
	OHL Output Shaft	420	425	430	430		

OHL output shaft value shown is lbs. (maximum allowed).

*Made to Order

XL Right Angle C-Face Reducers

SINGLE REDUCTION SIZE WM16

Ratio	Rating Data	RPM Inut				Frame Size	Part Number
		2500	1750	1160	860		
5	Output RPM	500	350	232	172	56C	M60812
	Output Torque, in. lb.	303	439	610	613		
	Output HP (Max.)	2.41	2.44	2.25	1.67	140TC	M60848
	Input HP (Max.)	2.65	2.68	2.48	1.87		
	OHL Output Shaft	560	590	630	700		
7.5	Output RPM	333	233	155	115	56C	M60813
	Output Torque, in. lb.	365	469	469	469		
	Output HP (Max.)	1.93	1.74	1.15	.85	140TC	M60849
	Input HP (Max.)	2.18	2.00	1.32	1.00		
	OHL Output Shaft	630	680	790	860		
10	Output RPM	250	175	116	86	56C	M60814
	Output Torque, in. lb.	436	583	695	743		
	Output HP (Max.)	1.73	1.62	1.28	1.02	140TC	M60850
	Input HP (Max.)	2.00	1.88	1.51	1.21		
	OHL Output Shaft	660	710	790	830		
12.7	Output RPM	197	138	91	68	56C	M60815
	Output Torque, in. lb.	449	591	702	809		
	Output HP (Max.)	1.41	1.30	1.02	.87	140TC	M60851
	Input HP (Max.)	1.66	1.54	1.24	1.08		
	OHL Output Shaft	700	760	850	760		
15	Output RPM	167	117	77	57	56C	M60816
	Output Torque, in. lb.	467	618	710	811		
	Output HP (Max.)	1.24	1.14	.87	.74	140TC	M60852
	Input HP (Max.)	1.50	1.38	1.09	.93		
	OHL Output Shaft	750	810	850	760		
18	Output RPM	139	97	64	48	56C	M60817
	Output Torque, in. lb.	482	608	720	812		
	Output HP (Max.)	1.06	.94	.74	.62	140TC	M60853
	Input HP (Max.)	1.32	1.18	.95	.82		
	OHL Output Shaft	800	830	860	740		
20	Output RPM	125	87	58	43	56C	M60818
	Output Torque, in. lb.	508	601	721	824		
	Output HP (Max.)	1.01	.83	.66	.56	140TC	M60854
	Input HP (Max.)	1.26	1.08	.87	.76		
	OHL Output Shaft	820	900	860	740		
25	Output RPM	100	70	46	34	56C	M60819
	Output Torque, in. lb.	532	612	743	759		
	Output HP (Max.)	.84	.68	.55	.41	140TC	M60855
	Input HP (Max.)	1.09	.90	.75	.58		
	OHL Output Shaft	880	930	840	810		
30	Output RPM	83	58	39	29	56C	M60820
	Output Torque, in. lb.	483	559	675	769		
	Output HP (Max.)	.64	.52	.41	.35	140TC	M60856
	Input HP (Max.)	.90	.75	.62	.55		
	OHL Output Shaft	920	960	920	810		
40	Output RPM	63	44	29	22	56C	M60821
	Output Torque, in. lb.	523	596	720	818		
	Output HP (Max.)	.52	.41	.33	.28	140TC	M60857
	Input HP (Max.)	.78	.64	.53	.47		
	OHL Output Shaft	960	950	860	740		
50	Output RPM	50	35	23	17	56C	M60822
	Output Torque, in. lb.	539	620	646	659		
	Output HP (Max.)	.43	.34	.24	.18	140TC	M60858
	Input HP (Max.)	.67	.57	.41	.33		
	OHL Output Shaft	960	940	940	930		
60	Output RPM	42	29	19	14	56C	M60823
	Output Torque, in. lb.	499	496	491	481		
	Output HP (Max.)	.33	.23	.15	.11	140TC	M60859
	Input HP (Max.)	.55	.40	.28	.21		
	OHL Output Shaft	960	960	960	960		

OHL output shaft value shown is lbs. (maximum allowed).

XL Right Angle C-Face Reducers

SINGLE REDUCTION SIZE WM21

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
5	Output RPM	500	350	232	172	56C	M60824
	Output Torque, in. lb.	583	770	1094	1321		
	Output HP (Max.)	4.63	4.28	4.03	3.61		
	Input HP (Max.)	5.00	4.62	4.37	3.95		
	OHL Output Shaft	790	850	900	960		
7.5	Output RPM	333	233	155	115	56C	M60825
	Output Torque, in. lb.	626	894	1201	1198		
	Output HP (Max.)	3.31	3.31	2.95	2.18		
	Input HP (Max.)	3.66	3.67	3.28	2.48		
	OHL Output Shaft	880	960	1050	1150		
10	Output RPM	250	175	116	86	56C	M60826
	Output Torque, in. lb.	763	949	1208	1364		
	Output HP (Max.)	3.03	2.64	2.23	1.86		
	Input HP (Max.)	3.38	3.00	2.54	2.17		
	OHL Output Shaft	950	1050	1150	1200		
12.7	Output RPM	197	138	91	68	56C	M60827
	Output Torque, in. lb.	895	1079	1284	1478		
	Output HP (Max.)	2.80	2.37	1.87	1.59		
	Input HP (Max.)	3.16	2.69	2.15	1.86		
	OHL Output Shaft	1000	1080	1200	1240		
15	Output RPM	167	117	77	57	56C	M60828
	Output Torque, in. lb.	885	1038	1246	1423		
	Output HP (Max.)	2.34	1.92	1.53	1.30		
	Input HP (Max.)	2.70	2.26	1.84	1.59		
	OHL Output Shaft	1080	1180	1270	1240		
18	Output RPM	139	97	64	48	56C	M60829
	Output Torque, in. lb.	969	1105	1330	1499		
	Output HP (Max.)	2.14	1.71	1.36	1.14		
	Input HP (Max.)	2.47	2.01	1.63	1.40		
	OHL Output Shaft	1100	1200	1260	1240		
20	Output RPM	125	87	58	43	56C	M60830
	Output Torque, in. lb.	940	1096	1307	1502		
	Output HP (Max.)	1.87	1.52	1.20	1.03		
	Input HP (Max.)	2.19	1.82	1.50	1.27		
	OHL Output Shaft	1150	1250	1260	1240		
25	Output RPM	100	70	46	34	56C	M60831
	Output Torque, in. lb.	1017	1188	1282	1283		
	Output HP (Max.)	1.62	1.32	.94	.70		
	Input HP (Max.)	2.00	1.63	1.21	.92		
	OHL Output Shaft	1200	1270	1260	1260		
30	Output RPM	83	58	39	29	56C	M60832
	Output Torque, in. lb.	857	990	1173	1322		
	Output HP (Max.)	1.13	.92	.72	.60		
	Input HP (Max.)	1.50	1.21	1.00	.84		
	OHL Output Shaft	1300	1290	1270	1260		
40	Output RPM	63	44	29	22	56C	M60833
	Output Torque, in. lb.	892	1026	1211	1390		
	Output HP (Max.)	.88	.71	.56	.47		
	Input HP (Max.)	1.24	1.03	.84	.75		
	OHL Output Shaft	1300	1290	1270	1250		
50	Output RPM	50	35	23	17	56C	M60834
	Output Torque, in. lb.	895	1040	1234	1430		
	Output HP (Max.)	.71	.58	.45	.39		
	Input HP (Max.)	1.05	.88	.75	.66		
	OHL Output Shaft	1300	1290	1270	1250		
60	Output RPM	42	29	19	14	56C	M60835
	Output Torque, in. lb.	918	1067	1113	1077		
	Output HP (Max.)	.61	.49	.34	.24		
	Input HP (Max.)	.93	.79	.58	.44		
	OHL Output Shaft	1300	1290	1280	1280		

OHL output shaft value shown is lbs. (maximum allowed).

XL Right Angle C-Face Reducers

SINGLE REDUCTION SIZE WM28

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
5	Output RPM	500	350	232	172	56C	M60836
	Output Torque, in. lb.	810	1096	1583	1931	140TC	M60872
	Output HP (Max.)	6.43	6.09	5.83	5.27	180TC	M60896
	Input HP (Max.)	6.95	6.61	6.35	5.79		
	OHL Output Shaft	1360	1480	1630	1730		
7.5	Output RPM	333	233	155	115	56C	M60837
	Output Torque, in. lb.	1059	1461	1866	2314	140TC	M60873
	Output HP (Max.)	5.60	5.41	4.58	4.21	180TC	M60897
	Input HP (Max.)	6.13	5.94	5.06	4.74		
	OHL Output Shaft	1500	1650	1800	1900		
10	Output RPM	250	175	116	86	56C	M60838
	Output Torque, in. lb.	1252	1644	2268	2869	140TC	M60874
	Output HP (Max.)	4.97	4.57	4.18	3.92	180TC	M60898
	Input HP (Max.)	5.50	5.10	4.71	4.45		
	OHL Output Shaft	1600	1750	1950	2100		
12.7	Output RPM	197	138	91	68	56C	M60839
	Output Torque, in. lb.	1392	1980	2615	3128	140TC	M60875
	Output HP (Max.)	4.36	4.34	3.80	3.37	180TC	M60899
	Input HP (Max.)	5.00	5.00	4.34	3.88		
	OHL Output Shaft	1750	1850	2100	2150		
15	Output RPM	167	117	77	57	56C	M60840
	Output Torque, in. lb.	1337	1754	2637	3064	140TC	M60876
	Output HP (Max.)	3.54	3.25	3.24	2.79	180TC	M60900
	Input HP (Max.)	4.08	3.79	3.78	3.33		
	OHL Output Shaft	1850	2000	2200	2150		
18	Output RPM	139	97	64	48	56C	M60841
	Output Torque, in. lb.	1494	2127	2859	3146	140TC	M60877
	Output HP (Max.)	3.29	3.28	2.92	2.39	180TC	M60901
	Input HP (Max.)	3.84	3.83	3.46	2.89		
	OHL Output Shaft	1900	2100	2170	2150		
20	Output RPM	125	87	58	43	56C	M60842
	Output Torque, in. lb.	1416	1873	2597	2967	140TC	M60878
	Output HP (Max.)	2.81	2.60	2.39	2.03	180TC	M60902
	Input HP (Max.)	3.36	3.15	3.00	2.55		
	OHL Output Shaft	2250	2230	2200	2150		
25	Output RPM	100	70	46	34	56C	M60843
	Output Torque, in. lb.	1642	2192	2772	2798	140TC	M60879
	Output HP (Max.)	2.61	2.44	2.04	1.53	180TC	M60903
	Input HP (Max.)	3.16	3.00	2.55	2.00		
	OHL Output Shaft	2100	2200	2180	2180		
30	Output RPM	83	58	39	29	56C	M60844
	Output Torque, in. lb.	1702	2311	2832	3190	140TC	M60880
	Output HP (Max.)	2.25	2.14	1.74	1.45	180TC	M60904
	Input HP (Max.)	2.81	2.70	2.26	2.00		
	OHL Output Shaft	2200	2200	2180	2130		
40	Output RPM	63	44	29	22	56C	M60845
	Output Torque, in. lb.	1537	1993	2699	2989	140TC	M60881
	Output HP (Max.)	1.53	1.38	1.24	1.02	180TC	M60905
	Input HP (Max.)	2.09	2.00	1.80	1.54		
	OHL Output Shaft	2250	2200	2180	2150		
50	Output RPM	50	35	23	17	56C	M60846
	Output Torque, in. lb.	1688	2211	2729	3046	140TC	M60882
	Output HP (Max.)	1.34	1.23	1.01	.83	180TC	M60906
	Input HP (Max.)	2.00	1.80	1.55	1.35		
	OHL Output Shaft	2240	2200	2180	2150		

OHL output shaft value shown is lbs. (maximum allowed).

XL Right Angle C-Face Reducers

SINGLE REDUCTION SIZE WM40

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
5	Output RPM	500	350	232	172	180TC	M60922
	Output Torque, in. lb.	2475	3875	5156	6163	180TC	M60922
	Output HP (Max.)	19.64	21.53	18.99	16.83	210TC	M60923
	Input HP (Max.)	21.00	23.00	20.40	18.10	210TC	M60923
	OHL Output Shaft	2600	2700	3000	3200	250TC	*
7.5	Output RPM	333	233	155	115	180TC	M60908
	Output Torque, in. lb.	3684	4485	6137	6723	180TC	M60908
	Output HP (Max.)	14.62	16.61	15.07	12.24	210TC	M60915
	Input HP (Max.)	16.00	18.00	16.40	13.46	210TC	M60915
	OHL Output Shaft	3100	3100	3300	3700	250TC	*
10	Output RPM	250	175	116	86	180TC	M60924
	Output Torque, in. lb.	3479	5253	6425	6911	180TC	M60924
	Output HP (Max.)	13.80	14.59	11.83	9.43	210TC	M60925
	Input HP (Max.)	15.30	16.00	13.20	10.80	210TC	M60925
	OHL Output Shaft	2750	3200	3700	3700	250TC	*
12.7	Output RPM	197	138	91	68	180TC	M60909
	Output Torque, in. lb.	3475	5147	6247	6743	180TC	M60909
	Output HP (Max.)	10.88	11.28	9.08	7.26	210TC	M60916
	Input HP (Max.)	12.30	12.70	10.39	8.49	210TC	M60916
	OHL Output Shaft	3400	3600	3700	3700	250TC	*
15	Output RPM	167	117	77	57	180TC	M60910
	Output Torque, in. lb.	3770	5497	6452	6936	180TC	M60910
	Output HP (Max.)	9.97	10.18	7.92	6.31	210TC	M60917
	Input HP (Max.)	11.40	11.60	9.18	7.50	210TC	M60917
	OHL Output Shaft	3500	3700	3700	3700	250TC	*
18	Output RPM	139	97	64	48	180TC	M60911
	Output Torque, in. lb.	3734	5497	6481	6950	180TC	M60911
	Output HP (Max.)	8.23	8.48	6.63	5.27	210TC	M60918
	Input HP (Max.)	9.67	10.00	7.97	6.48	210TC	M60918
	OHL Output Shaft	3800	3700	3700	3700	250TC	*
25	Output RPM	100	70	46	34	180TC	M60912
	Output Torque, in. lb.	4573	5829	6792	7171	180TC	M60912
	Output HP (Max.)	7.26	6.48	5.00	3.92	210TC	M60919
	Input HP (Max.)	8.80	7.87	6.26	5.14	210TC	M60919
	OHL Output Shaft	3700	3700	3700	3700	250TC	*
30	Output RPM	83	58	39	29	180TC	M61220
	Output Torque, in. lb.	4167	5433	6273	6725	180TC	M61220
	Output HP (Max.)	5.51	5.03	3.85	3.06	210TC	M61221
	Input HP (Max.)	6.98	6.45	5.15	4.19	210TC	M61221
	OHL Output Shaft	3800	3700	3700	3700	250TC	*
40	Output RPM	63	44	29	22	180TC	M61222
	Output Torque, in. lb.	4556	5710	6591	7053	180TC	M61222
	Output HP (Max.)	4.52	3.97	3.03	2.41	210TC	M61223
	Input HP (Max.)	5.95	5.36	4.24	3.49	210TC	M61223
	OHL Output Shaft	3800	3700	3700	3700	250TC	*
50	Output RPM	50	35	23	17	180TC	M60913
	Output Torque, in. lb.	5103	5848	6843	7215	180TC	M60913
	Output HP (Max.)	4.05	3.25	2.52	1.97	210TC	M60920
	Input HP (Max.)	5.55	4.59	3.73	3.04	210TC	M60920
	OHL Output Shaft	3700	3700	3700	3700	250TC	*
60	Output RPM	42	29	19	14	180TC	M60914
	Output Torque, in. lb.	5259	5797	6768	7173	180TC	M60914
	Output HP (Max.)	3.48	2.68	2.08	1.63	210TC	M60921
	Input HP (Max.)	5.00	3.96	3.22	2.64	210TC	M60921
	OHL Output Shaft	3700	3700	3700	3700	250TC	*

OHL output shaft value shown is lbs. (maximum allowed)

*Made to Order

Above ratings also apply to WR40

XL Right Angle C-Face Reducers

SINGLE REDUCTION SIZE H419

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
15	Output RPM	167	117	77	57	180TC	M60151
	Output Torque, in. lb.	3904	4811	6329	7416		
	Output HP (Max.)	10.33	8.91	7.77	6.75	210TC	M60157
	Input HP (Max.)	11.60	10.18	9.04	8.02		
	OHL Output Shaft	3150	3050	2970	2830		
20	Output RPM	125	87	58	43	180TC	M60152
	Output Torque, in. lb.	3903	4985	6770	8121		
	Output HP (Max.)	7.74	6.92	6.23	5.54	210TC	M94770
	Input HP (Max.)	9.03	8.21	7.52	6.83		
	OHL Output Shaft	3150	3050	2900	2750		
30	Output RPM	83	58	39	29	180TC	M94771
	Output Torque, in. lb.	3819	5046	6241	7741		
	Output HP (Max.)	5.05	4.67	3.83	3.52	210TC	**
	Input HP (Max.)	6.36	5.98	5.14	5.00		
	OHL Output Shaft	3150	3070	2980	2770		
40	Output RPM	63	44	29	22	180TC	M94772
	Output Torque, in. lb.	4300	5450	6898	7986		
	Output HP (Max.)	4.27	3.79	3.18	2.73	210TC	**
	Input HP (Max.)	5.59	5.11	4.50	4.02		
	OHL Output Shaft	3110	3050	2900	2730		
50	Output RPM	50	35	23	17	180TC	M60153
	Output Torque, in. lb.	4654	5926	7589	7976		
	Output HP (Max.)	3.69	3.29	2.79	2.18	210TC	**
	Input HP (Max.)	5.03	4.63	4.13	3.41		
	OHL Output Shaft	3100	3000	2800	2740		

OHL output shaft value shown is lbs. (maximum allowed)

**Not Available

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM12

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
20	Output RPM	125	87	58	43	56C	*
	Output Torque, in. lb.	663	772	886	989		
	Output HP (Max.)	1.29	1.06	.80	.66		
	Input HP (Max.)	1.51	1.23	1.00	.80		
	OHL Output Shaft	980	1080	1130	1120		
25	Output RPM	104	70	48	36	56C	M60191
	Output Torque, in. lb.	793	923	1036	1029		
	Output HP (Max.)	1.29	1.06	.78	.58		
	Input HP (Max.)	1.51	1.23	.93	.70		
	OHL Output Shaft	1040	1130	1120	1120		
30	Output RPM	83	58	39	29	56C	M60192
	Output Torque, in. lb.	788	881	871	876		
	Output HP (Max.)	1.03	.80	.53	.39		
	Input HP (Max.)	1.23	1.00	.65	.50		
	OHL Output Shaft	1100	1130	1130	1130		
36	Output RPM	69	48	32	24	56C	M60193
	Output Torque, in. lb.	939	1039	1038	1044		
	Output HP (Max.)	1.03	.79	.53	.39		
	Input HP (Max.)	1.23	.96	.65	.49		
	OHL Output Shaft	1130	1120	1120	1120		
40	Output RPM	63	44	29	22	56C	M60194
	Output Torque, in. lb.	805	934	1117	1291		
	Output HP (Max.)	.78	.64	.51	.43		
	Input HP (Max.)	1.00	.80	.64	.55		
	OHL Output Shaft	1140	1130	1130	740		
50	Output RPM	49	35	23	17	56C	M60195
	Output Torque, in. lb.	838	1024	1179	1257		
	Output HP (Max.)	.64	.55	.42	.33		
	Input HP (Max.)	.82	.69	.53	.43		
	OHL Output Shaft	1130	1120	930	800		
60	Output RPM	42	29	19	14	56C	M60196
	Output Torque, in. lb.	998	1067	1059	1034		
	Output HP (Max.)	.64	.48	.32	.23		
	Input HP (Max.)	.82	.61	.41	.30		
	OHL Output Shaft	1120	1120	1120	1120		
70	Output RPM	35	25	16	12	56C	M60197
	Output Torque, in. lb.	926	1056	1047	1048		
	Output HP (Max.)	.51	.40	.26	.20		
	Input HP (Max.)	.67	.54	.37	.28		
	OHL Output Shaft	1130	1120	1120	1120		

* Made to Order

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM12

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
86	Output RPM	29	20	13.5	10	56C	M60198
	Output Torque, in. lb.	1000	1060	1066	1067	140TC	M60210
	Output HP (Max.)	.45	.34	.22	.17		
	Input HP (Max.)	.61	.46	.31	.24		
	OHL Output Shaft	1120	1120	1110	1110		
101	Output RPM	25	17	11.5	8.5	56C	M94405
	Output Torque, in. lb.	865	1062	1182	1182	140TC	M60211
	Output HP (Max.)	.34	.29	.21	.16		
	Input HP (Max.)	.50	.41	.31	.23		
	OHL Output Shaft	1130	1120	930	930		
121	Output RPM	21	14	9.6	7	56C	M94406
	Output Torque, in. lb.	758	964	1175	1345	140TC	M60212
	Output HP (Max.)	.25	.22	.18	.15		
	Input HP (Max.)	.40	.36	.29	.26		
	OHL Output Shaft	1140	1130	950	600		
144	Output RPM	17	12	8	6	56C	M61240
	Output Torque, in. lb.	903	1056	1073	1062	140TC	M60213
	Output HP (Max.)	.25	.20	.14	.10		
	Input HP (Max.)	.40	.34	.23	.18		
	OHL Output Shaft	1130	1120	1110	1120		
162	Output RPM	15	11	7	5	56C	M60199
	Output Torque, in. lb.	844	1023	1255	1401	140TC	M60214
	Output HP (Max.)	.21	.17	.14	.12		
	Input HP (Max.)	.36	.31	.25	.22		
	OHL Output Shaft	1140	1120	810	380		
192	Output RPM	13	9	6	4.5	56C	M94408
	Output Torque, in. lb.	1005	1065	1079	1069	140TC	M60215
	Output HP (Max.)	.21	.15	.10	.07		
	Input HP (Max.)	.36	.28	.19	.14		
	OHL Output Shaft	1120	1120	1120	1120		
240	Output RPM	10	7	4.8	3.6	56C	M60200
	Output Torque, in. lb.	987	1065	1081	1081	140TC	M60216
	Output HP (Max.)	.16	.12	.08	.06		
	Input HP (Max.)	.30	.24	.16	.13		
	OHL Output Shaft	1130	1120	1100	1100		
288	Output RPM	9	6	4	2	56C	M60201
	Output Torque, in. lb.	871	1005	938	1212	140TC	M60218
	Output HP (Max.)	0.12	0.10	0.06	0.04		
	Input HP (Max.)	0.25	0.20	0.13	0.09		
	OHL Output Shaft	1300	1285	1255	1115		
336	Output RPM	7.4	5	3.5	2.6	56C	M60202
	Output Torque, in. lb.	477	460	463	447	140TC	M60218
	Output HP (Max.)	.06	.04	.02	.02		
	Input HP (Max.)	.13	.10	.06	.05		
	OHL Output Shaft	1160	1160	1160	1160		

OHL output shaft value shown is lbs. (maximum allowed).

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM16

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
20	Output RPM	125	87	58	43	56C	M60000
	Output Torque, in. lb.	1726	2206	2427	2441		
	Output HP (Max.)	3.37	3.02	2.20	1.64		
	Input HP (Max.)	3.75	3.37	2.48	1.87		
	OHL Output Shaft	1240	1460	1640	1640		
25	Output RPM	104	70	48	36	56C	M60219
	Output Torque, in. lb.	2050	2277	2426	2408		
	Output HP (Max.)	3.40	2.64	1.87	1.37		
	Input HP (Max.)	3.78	3.00	2.11	1.57		
	OHL Output Shaft	1380	1540	1640	1640		
30	Output RPM	83	58	39	29	56C	M60220
	Output Torque, in. lb.	1869	1868	1868	1867		
	Output HP (Max.)	2.43	1.70	1.13	.84		
	Input HP (Max.)	2.78	2.00	1.32	1.00		
	OHL Output Shaft	1480	1660	1700	1700		
36	Output RPM	69	48	32	24	56C	M60221
	Output Torque, in. lb.	2202	2201	2201	2199		
	Output HP (Max.)	2.43	1.70	1.13	.84		
	Input HP (Max.)	2.78	2.00	1.32	1.00		
	OHL Output Shaft	1560	1640	1640	1640		
40	Output RPM	63	44	29	22	56C	M60222
	Output Torque, in. lb.	2008	2360	2765	2909		
	Output HP (Max.)	1.96	1.61	1.25	.98		
	Input HP (Max.)	2.28	1.91	1.51	1.19		
	OHL Output Shaft	1650	1620	1150	850		
50	Output RPM	49	35	23	17	56C	M60223
	Output Torque, in. lb.	2036	2353	2794	2913		
	Output HP (Max.)	1.57	1.27	1.00	.77		
	Input HP (Max.)	1.88	1.54	1.24	1.00		
	OHL Output Shaft	1680	1620	1100	820		
60	Output RPM	42	29	19	14	56C	M94850
	Output Torque, in. lb.	2398	2568	2638	2669		
	Output HP (Max.)	1.57	1.18	.80	.60		
	Input HP (Max.)	1.88	1.43	1.00	.76		
	OHL Output Shaft	1600	1530	1400	1320		
70	Output RPM	35	25	16	12	56C	M60224
	Output Torque, in. lb.	2468	2526	2521	2628		
	Output HP (Max.)	1.36	.98	.65	.50		
	Input HP (Max.)	1.67	1.21	.83	.65		
	OHL Output Shaft	1590	1570	1570	1420		

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM16

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
86	Output RPM	29	20	13.5	10	56C	M94889
	Output Torque, in. lb.	2351	2522	2645	2648		
	Output HP (Max.)	1.08	0.81	0.56	.42		
	Input HP (Max.)	1.37	1.05	0.75	.58		
	OHL Output Shaft	1620	1570	1380	1380		
101	Output RPM	25	17	11.5	8.5	56C	M94411
	Output Torque, in. lb.	2196	2558	2897	2900		
	Output HP (Max.)	.86	.70	.52	.39		
	Input HP (Max.)	1.09	.90	.70	.53		
	OHL Output Shaft	1640	1510	840	840		
121	Output RPM	21	14	9.6	7	56C	M94412
	Output Torque, in. lb.	1921	2227	2685	2887		
	Output HP (Max.)	.63	.51	.41	.32		
	Input HP (Max.)	.90	.75	.62	.52		
	OHL Output Shaft	1700	1630	1300	840		
144	Output RPM	17	12	8	6	56C	M94413
	Output Torque, in. lb.	2264	2624	2715	2646		
	Output HP (Max.)	.63	.51	.35	.25		
	Input HP (Max.)	.90	.75	.54	.41		
	OHL Output Shaft	1640	1420	1250	1380		
162	Output RPM	15	11	7	5	56C	M60226
	Output Torque, in. lb.	2080	2374	2867	2893		
	Output HP (Max.)	.51	.41	.32	.24		
	Input HP (Max.)	.78	.64	.53	.42		
	OHL Output Shaft	1670	1610	920	850		
192	Output RPM	13	9	6	4.5	56C	M94414
	Output Torque, in. lb.	2464	2647	2663	2630		
	Output HP (Max.)	.51	.38	.25	.19		
	Input HP (Max.)	.78	.60	.42	.33		
	OHL Output Shaft	1590	1400	1350	1400		
240	Output RPM	10	7	4.8	3.6	56C	M60227
	Output Torque, in. lb.	2528	2667	2672	2660		
	Output HP (Max.)	.42	.31	.21	.15		
	Input HP (Max.)	.67	.52	.37	.28		
	OHL Output Shaft	1600	1340	1340	1340		
288	Output RPM	8.7	6	4	3	56C	M94415
	Output Torque, in. lb.	2340	2324	2305	2309		
	Output HP (Max.)	.32	.22	.15	.11		
	Input HP (Max.)	.55	.40	.28	.21		
	OHL Output Shaft	1620	1620	1620	1620		

OHL output shaft value shown is lbs. (maximum allowed).

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM21

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
20	Output RPM	125	87	58	43	56C	M60002
	Output Torque, in. lb.	3059	3610	4544	4977	140TC	M60003
	Output HP (Max.)	5.98	4.94	4.12	3.35	140TC	M60003
	Input HP (Max.)	6.52	5.43	4.56	3.74	140TC	M60003
	OHL Output Shaft	2150	2360	2680	2680	180TC	M60004
25	Output RPM	104	70	48	36	56C	M60245
	Output Torque, in. lb.	3604	4238	4785	5848	140TC	M60256
	Output HP (Max.)	5.98	4.92	3.68	3.34	140TC	M60256
	Input HP (Max.)	6.52	5.41	4.08	3.73	140TC	M60256
	OHL Output Shaft	2250	2490	2720	2500	180TC	M60270
30	Output RPM	83	58	39	29	56C	M60246
	Output Torque, in. lb.	3429	3966	4782	4770	140TC	M60257
	Output HP (Max.)	4.47	3.62	2.89	2.14	140TC	M60257
	Input HP (Max.)	5.00	4.08	3.28	2.48	140TC	M60257
	OHL Output Shaft	2400	2680	2720	2720	180TC	M60271
36	Output RPM	69	48	32	24	56C	M60247
	Output Torque, in. lb.	4039	4671	5458	5618	140TC	M60258
	Output HP (Max.)	4.47	3.62	2.80	2.14	140TC	M60258
	Input HP (Max.)	5.00	4.08	3.18	2.48	140TC	M60258
	OHL Output Shaft	2500	2750	2600	2570	180TC	M60272
40	Output RPM	63	44	29	22	56C	M60248
	Output Torque, in. lb.	3415	3973	4810	5429	140TC	M61257
	Output HP (Max.)	3.34	2.72	2.18	1.83	140TC	M61257
	Input HP (Max.)	3.79	3.14	2.54	2.17	140TC	M61257
	OHL Output Shaft	2670	2800	2720	2620	180TC	M60273
50	Output RPM	49	35	23	17	56C	M60249
	Output Torque, in. lb.	3701	4297	5110	5882	140TC	M94892
	Output HP (Max.)	2.85	2.32	1.83	1.56	140TC	M94892
	Input HP (Max.)	3.28	2.69	2.16	1.86	140TC	M94892
	OHL Output Shaft	2820	2800	2670	2500	180TC	M60274
60	Output RPM	42	29	19	14	56C	M60250
	Output Torque, in. lb.	4360	5062	6019	6399	140TC	M94891
	Output HP (Max.)	2.85	2.32	1.83	1.44	140TC	M94891
	Input HP (Max.)	3.28	2.69	2.16	1.72	140TC	M94891
	OHL Output Shaft	2800	2680	2460	2240	180TC	M60275
70	Output RPM	35	25	16	12	56C	M60251
	Output Torque, in. lb.	4260	4869	5845	6287	140TC	M60260
	Output HP (Max.)	2.36	1.88	1.50	1.20	140TC	M60260
	Input HP (Max.)	2.77	2.26	1.84	1.50	140TC	M60260
	OHL Output Shaft	2780	2680	2470	2350	180TC	M60276

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM21

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
86	Output RPM	29	20	13.5	10	56C	M60252
	Output Torque, in. lb.	4544	5182	6196	6211	56C	M60252
	Output HP (Max.)	2.09	1.67	1.32	.98	140TC	M94890
	Input HP (Max.)	2.47	2.01	1.62	1.24	140TC	M94890
	OHL Output Shaft	2760	2640	2400	2400	180TC	M60277
101	Output RPM	25	17	11.5	8.5	56C	M94416
	Output Torque, in. lb.	4051	4729	5103	5107	56C	M94416
	Output HP (Max.)	1.58	1.29	.92	.69	140TC	M94416
	Input HP (Max.)	2.00	1.64	1.21	.92	140TC	M94416
	OHL Output Shaft	2800	2730	2670	2670	180TC	M60278
121	Output RPM	21	14	9.6	7	56C	M61239
	Output Torque, in. lb.	3413	3940	4670	5263	56C	M61239
	Output HP (Max.)	1.11	.90	.71	.59	140TC	M60263
	Input HP (Max.)	1.50	1.21	1.00	.84	140TC	M60263
	OHL Output Shaft	2860	2800	2740	2630	180TC	M60279
144	Output RPM	17	12	8	6	56C	M94418
	Output Torque, in. lb.	4021	4642	5502	6200	56C	M94418
	Output HP (Max.)	1.11	.90	.71	.59	140TC	M94418
	Input HP (Max.)	1.50	1.21	1.00	.84	140TC	M94418
	OHL Output Shaft	2800	2750	2600	2400	180TC	M60280
162	Output RPM	15	11	7	5	56C	M60253
	Output Torque, in. lb.	3552	4087	4823	5536	56C	M60253
	Output HP (Max.)	.87	.70	.55	.46	140TC	M60255
	Input HP (Max.)	1.24	1.03	.84	.75	140TC	M60255
	OHL Output Shaft	2850	2800	2720	2600	180TC	M60281
192	Output RPM	13	9	6	4.5	56C	M94419
	Output Torque, in. lb.	4184	4814	5681	6298	56C	M94419
	Output HP (Max.)	.87	.70	.55	.45	140TC	M94419
	Input HP (Max.)	1.24	1.03	.84	.72	140TC	M94419
	OHL Output Shaft	2800	2720	2550	2380	180TC	M60282
240	Output RPM	10	7	4.8	3.6	56C	M60254
	Output Torque, in. lb.	4196	4879	5787	6444	56C	M60254
	Output HP (Max.)	.70	.57	.44	.37	140TC	M60267
	Input HP (Max.)	1.05	.88	.75	.63	140TC	M60267
	OHL Output Shaft	2800	2700	2500	2200	180TC	M60283
288	Output RPM	8.7	6	4	3	56C	M94420
	Output Torque, in. lb.	4306	5004	5221	5053	56C	M94420
	Output HP (Max.)	.59	.48	.33	.24	140TC	M60268
	Input HP (Max.)	.93	.79	.58	.44	140TC	M60268
	OHL Output Shaft	2790	2690	2660	2690	180TC	M60284

OHL output shaft value shown is lbs. (maximum allowed).

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM28

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
10	Output RPM	250	175	116	86	140TC	*
	Output Torque, in. lb.	3003	3688	4519	5026	180TC	*
	Output HP (Max.)	11.92	10.24	8.32	6.86	210TC	*
	Input HP (Max.)	12.98	11.25	9.21	7.67		
	OHL Output Shaft	3884	4307	4927	5309		
12.7	Output RPM	207	138	91	68	140TC	*
	Output Torque, in. lb.	3617	4442	5443	6054	180TC	*
	Output HP (Max.)	11.92	10.24	8.32	6.86	210TC	*
	Input HP (Max.)	12.98	11.25	9.21	7.67		
	OHL Output Shaft	4098	4541	5121	5601		
15	Output RPM	167	117	77	57	140TC	*
	Output Torque, in. lb.	3350	4119	4855	4827	180TC	*
	Output HP (Max.)	8.86	7.63	5.96	4.39	210TC	*
	Input HP (Max.)	9.79	8.49	6.69	5.04		
	OHL Output Shaft	4386	4862	5503	6044		
18	Output RPM	138	97	64	48	140TC	*
	Output Torque, in. lb.	4035	4962	5848	5814	180TC	*
	Output HP (Max.)	8.86	7.63	5.96	4.39	210TC	*
	Input HP (Max.)	9.79	8.49	6.69	5.04		
	OHL Output Shaft	4630	5126	5796	6342		
20	Output RPM	125	87	58	43	140TC	M60005
	Output Torque, in. lb.	5176	6818	8811	9643	180TC	M60006
	Output HP (Max.)	10.27	9.47	8.11	6.58	210TC	M60007
	Input HP (Max.)	11.21	10.41	8.98	7.40		
	OHL Output Shaft	4700	5200	5700	5800		
25	Output RPM	104	70	48	36	140TC	M60286
	Output Torque, in. lb.	6220	8199	9322	10,235	180TC	M60297
	Output HP (Max.)	10.35	9.55	7.20	5.86	210TC	M60313
	Input HP (Max.)	11.30	10.50	7.98	6.56		
	OHL Output Shaft	5000	5500	5700	5600		
30	Output RPM	83	58	39	29	140TC	M60287
	Output Torque, in. lb.	6700	8239	9710	9653	180TC	M60298
	Output HP (Max.)	8.86	7.63	5.96	4.39	210TC	M60314
	Input HP (Max.)	10.00	8.49	6.69	5.04		
	OHL Output Shaft	5300	5800	5700	5700		
36	Output RPM	69	48	32	24	140TC	M60288
	Output Torque, in. lb.	7988	9389	10,684	11,510	180TC	M60299
	Output HP (Max.)	8.86	7.29	5.50	4.39	210TC	M60315
	Input HP (Max.)	10.00	8.12	6.18	5.04		
	OHL Output Shaft	5500	5700	5600	5600		
40	Output RPM	63	44	29	22	140TC	M60289
	Output Torque, in. lb.	7258	8393	10,347	11,348	180TC	M60300
	Output HP (Max.)	7.20	5.83	4.76	3.87	210TC	M60316
	Input HP (Max.)	8.06	6.61	5.47	4.49		
	OHL Output Shaft	5800	5700	5600	5600		
50	Output RPM	49	35	23	17	140TC	M60290
	Output Torque, in. lb.	7713	8996	10,801	12,260	180TC	M60301
	Output HP (Max.)	6.04	4.93	3.93	3.30	210TC	M60317
	Input HP (Max.)	6.86	5.64	4.57	3.88		
	OHL Output Shaft	5800	5700	5600	5500		

* Made to Order

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM28

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
60	Output RPM	42	29	19	14	140TC	*
	Output Torque, in. lb.	9196	10,725	12,677	13,854	180TC	M94432
	Output HP (Max.)	6.04	4.93	3.86	3.13	180TC	M94432
	Input HP (Max.)	6.86	5.64	4.50	3.68	180TC	M94432
	OHL Output Shaft	5700	5600	5500	5400	210TC	M60318
70	Output RPM	35	25	16	12	140TC	M60291
	Output Torque, in. lb.	8904	10,506	12,588	14,319	140TC	M60291
	Output HP (Max.)	4.94	4.08	3.24	2.73	180TC	M60303
	Input HP (Max.)	5.75	5.00	3.87	3.33	180TC	M60303
	OHL Output Shaft	5700	5600	5500	5300	210TC	M60319
86	Output RPM	29	20	13.5	10	140TC	M60292
	Output Torque, in. lb.	9434	10,793	13,359	14,701	140TC	M60292
	Output HP (Max.)	4.36	3.49	2.87	2.34	180TC	M60304
	Input HP (Max.)	5.14	4.15	3.46	2.89	180TC	M60304
	OHL Output Shaft	5700	5600	5400	5200	210TC	M60320
101	Output RPM	25	17	11.5	8.5	140TC	M94433
	Output Torque, in. lb.	7858	9098	10,867	10,970	140TC	M94433
	Output HP (Max.)	3.12	2.53	2.00	1.50	180TC	M60305
	Input HP (Max.)	3.83	3.16	2.55	1.96	180TC	M60305
	OHL Output Shaft	5800	5700	5600	5600	210TC	M60321
121	Output RPM	21	14	9.6	7	140TC	M61241
	Output Torque, in. lb.	7966	9130	11,100	12,505	140TC	M61241
	Output HP (Max.)	2.63	2.11	1.70	1.42	180TC	M60306
	Input HP (Max.)	3.33	2.72	2.26	2.00	180TC	M60306
	OHL Output Shaft	5800	5700	5600	5500	210TC	M60322
144	Output RPM	17	12	8	6	140TC	M94435
	Output Torque, in. lb.	9497	10,885	13,235	14,910	140TC	M94435
	Output HP (Max.)	2.63	2.11	1.70	1.42	180TC	M60307
	Input HP (Max.)	3.33	2.72	2.26	2.00	180TC	M60307
	OHL Output Shaft	5700	5600	5500	5200	210TC	M60323
162	Output RPM	15	11	7	5	140TC	M60293
	Output Torque, in. lb.	7302	8605	10,581	11,716	140TC	M60293
	Output HP (Max.)	1.81	1.49	1.22	1.00	180TC	M60308
	Input HP (Max.)	2.51	2.14	1.80	1.54	180TC	M60308
	OHL Output Shaft	5800	5700	5600	5600	210TC	M60324
192	Output RPM	13	9	6	4.5	140TC	M61243
	Output Torque, in. lb.	8706	10,260	12,616	13,969	140TC	M61243
	Output HP (Max.)	1.81	1.49	1.22	1.00	180TC	M60309
	Input HP (Max.)	2.51	2.14	1.80	1.54	180TC	M60309
	OHL Output Shaft	5700	5600	5500	5400	210TC	M60325
240	Output RPM	10	7	4.8	3.6	140TC	M60294
	Output Torque, in. lb.	9152	10,393	12,755	14,236	140TC	M60294
	Output HP (Max.)	1.52	1.21	.98	.81	180TC	M60310
	Input HP (Max.)	2.20	1.81	1.55	1.35	180TC	M60310
	OHL Output Shaft	5700	5600	5500	5300	210TC	M60326

OHL output shaft value shown is lbs. (maximum allowed).

* Made to Order

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM40

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
10	Output RPM	250	175	116	86	180TC	*
	Output Torque, in. lb.	6622	8187	10,150	12,054	180TC	*
	Output HP (Max.)	26.3	22.7	18.70	16.50	210TC	*
	Input HP (Max.)	28.44	24.64	20.42	18.06	210TC	*
	OHL Output Shaft	5879	6517	7344	8004	250TC	*
15	Output RPM	167	117	77.3	57.3	180TC	*
	Output Torque, in. lb.	7883	9800	12,028	13,177	180TC	*
	Output HP (Max.)	20.85	18.15	14.77	11.99	210TC	*
	Input HP (Max.)	22.90	20.30	16.41	13.46	210TC	*
	OHL Output Shaft	6623	7337	8277	8719	250TC	*
20	Output RPM	125	87	58	43	180TC	M60021
	Output Torque, in. lb.	10,745	15,659	20,212	24,024	180TC	M60021
	Output HP (Max.)	21.32	21.75	18.61	16.40	210TC	M60024
	Input HP (Max.)	23.20	23.70	20.40	17.90	210TC	M60024
	OHL Output Shaft	6200	6800	7600	8200	250TC	M61217
25	Output RPM	104	70	48	36	180TC	M60022
	Output Torque, in. lb.	12,356	18,008	22,784	24,989	180TC	M60022
	Output HP (Max.)	21.32	21.75	18.24	14.83	210TC	M60025
	Input HP (Max.)	23.20	23.70	20.00	16.30	210TC	M60025
	OHL Output Shaft	6500	7100	8000	8000	250TC	M61218
30	Output RPM	83	58	39	29	180TC	M60330
	Output Torque, in. lb.	14,006	19,599	24,058	26,353	180TC	M60330
	Output HP (Max.)	18.53	18.15	14.77	11.99	210TC	M60336
	Input HP (Max.)	20.40	20.00	16.40	13.48	210TC	M60336
	OHL Output Shaft	7000	7600	8100	7900	250TC	M60362
36	Output RPM	69	48	32	24	180TC	M60331
	Output Torque, in. lb.	16,341	22,866	25,467	26,122	180TC	M60331
	Output HP (Max.)	18.53	18.15	13.40	10.19	210TC	M60347
	Input HP (Max.)	20.40	20.00	15.00	11.46	210TC	M60347
	OHL Output Shaft	7200	7900	8000	7900	250TC	M60363
40	Output RPM	63	44	29	22	180TC	M60023
	Output Torque, in. lb.	15,925	21,524	25,186	27,091	180TC	M60023
	Output HP (Max.)	15.80	14.95	11.59	9.25	210TC	M60026
	Input HP (Max.)	17.60	16.70	13.20	10.80	210TC	M60026
	OHL Output Shaft	7600	8400	8000	7800	250TC	M61219
50	Output RPM	49	35	23	17	180TC	M60333
	Output Torque, in. lb.	17,757	21,870	25,125	27,119	180TC	M60333
	Output HP (Max.)	13.55	11.68	8.90	7.12	210TC	M60349
	Input HP (Max.)	15.50	13.40	10.39	8.49	210TC	M60349
	OHL Output Shaft	8200	8300	8100	7800	250TC	M60365
60	Output RPM	42	29	19	14	180TC	M60334
	Output Torque, in. lb.	20,489	25,234	26,716	29,230	180TC	M60334
	Output HP (Max.)	13.55	11.68	8.20	6.65	210TC	M60350
	Input HP (Max.)	15.50	13.40	9.59	7.94	210TC	M60350
	OHL Output Shaft	8400	8000	7900	7500	250TC	M60366

Above ratings also apply to CR40

* Made to Order

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM40

Ratio	Rating Data	RPM Input				Frame Size	Part Number
		2500	1750	1160	860		
70	Output RPM	35	25	16	12	180TC	M60335
	Output Torque, in. lb.	22118	25,783	26,557	26,795	210TC	M60351
	Output HP (Max.)	12.54	10.23	6.99	5.23	250TC	M60367
	Input HP (Max.)	14.5	11.89	8.28	6.33		
	OHL Output Shaft	8300	8000	7900	7900		
86	Output RPM	29	20	13.5	10	180TC	M60336
	Output Torque, in. lb.	22,220	23,358	27,036	26,707	210TC	M60352
	Output HP (Max.)	10.62	8.49	6.00	4.39	250TC	M60368
	Input HP (Max.)	12.60	10.12	7.50	5.53		
	OHL Output Shaft	8300	8000	7700	7700		
101	Output RPM	25	17	11.5	8.5	180TC	M60337
	Output Torque, in. lb.	20,814	22,851	26,623	28,110	210TC	M60353
	Output HP (Max.)	8.26	6.35	4.90	3.84	250TC	M60369
	Input HP (Max.)	10.16	7.87	6.26	5.14		
	OHL Output Shaft	8400	8200	7700	7600		
121	Output RPM	21	14	9.6	7	180TC	M61224
	Output Torque, in. lb.	19,432	21,295	24,590	26,362	210TC	M61225
	Output HP (Max.)	6.43	4.93	3.77	3.00	250TC	M61226
	Input HP (Max.)	8.74	6.45	5.15	4.19		
	OHL Output Shaft	8500	8400	8100	7900		
144	Output RPM	17	12	8	6	180TC	M61227
	Output Torque, in. lb.	22,509	24,667	27,344	27,692	210TC	M61228
	Output HP (Max.)	6.43	4.93	3.62	2.72	250TC	M61229
	Input HP (Max.)	8.74	6.45	5.00	3.81		
	OHL Output Shaft	8300	8100	7800	7800		
162	Output RPM	15	11	7	5	180TC	M61230
	Output Torque, in. lb.	20,231	22,384	25,837	27,647	210TC	M61231
	Output HP (Max.)	5.02	3.89	2.99	2.36	250TC	M61232
	Input HP (Max.)	6.70	5.36	4.24	3.49		
	OHL Output Shaft	8500	8300	8000	7700		
192	Output RPM	13	9	6	4.5	180TC	M61233
	Output Torque, in. lb.	23,392	25,882	27,868	28,289	210TC	M61234
	Output HP (Max.)	5.02	3.89	2.76	2.09	250TC	M61235
	Input HP (Max.)	6.70	5.36	3.94	3.10		
	OHL Output Shaft	8700	8000	7700	7600		
240	Output RPM	10	7	4.8	3.6	180TC	M60342
	Output Torque, in. lb.	23,721	25,932	29,401	27,778	210TC	M60358
	Output HP (Max.)	4.08	3.12	2.26	1.64	250TC	M60374
	Input HP (Max.)	5.69	4.50	3.43	2.60		
	OHL Output Shaft	8200	7900	7600	7600		
288	Output RPM	8.7	6	4	3	180TC	M60353
	Output Torque, in. lb.	23,792	26,228	27,658	28,000	210TC	M60359
	Output HP (Max.)	3.41	2.63	1.84	1.38	250TC	M60375
	Input HP (Max.)	5.00	3.96	3.00	2.29		
	OHL Output Shaft	8100	7900	7700	7700		

OHL output shaft value shown is lbs. (maximum allowed).

Above ratings also apply to CR40.

XL Right Angle Gearmotors

.33 HP

Output RPM	Ratio	Motor Frame	Gearcase Size	Output OHL (Lbs)	Output Torque (In--Lbs)	Output HP	Part Number
350	5.0	FB56	WG12A	540	45	0.25	*
233	7.5	FB56	WG12A	525	66	0.24	*
175	10.0	FB56	WG12A	510	86	0.24	*
138	12.7	FB56	WG12A	490	113	0.24	*
117	15.0	FB56	WG12A	480	127	0.24	*
97	18.0	FB56	WG12A	467	152	0.24	*
87	20.0	FB56	WG12A	457	159	0.22	*
70	25.0	FB56	WG12A	422	209	0.23	*
58	30.0	FB56	WG12A	415	219	0.20	X75811
44	40.0	FB56	WG16A	982	280	0.19	*
35	50.0	FB56	WG16A	980	343	0.19	X75828
29	60.0	FB56	WG16A	977	396	0.18	*
25	70.0	FB56	CG12A	1155	603	0.23	*
20	86.0	FB56	CG12A	1150	724	0.23	*
17	101.0	FB56	CG12A	1140	832	0.23	*
14	121.0	FB56	CG12A	1140	874	0.20	X90556
12	144.0	FB56	CG12A	1120	1030	0.20	*
11	162.0	FB56	CG16A	1770	1147	0.20	*
9	192.0	FB56	CG16A	1760	1359	0.20	X91260
7	240.0	FB56	CG16A	1735	1608	0.19	*
6	288.0	FB56	CG16A	1700	1859	0.18	*

Motor Info: TENV 1750 Rpm, 3 Phase, 60 Hz 230/460 Volts, Standard Efficient

* Made to Order

Introduction

DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

XL Right Angle Gearmotors

.50 HP

Output RPM	Ratio	Motor Frame	Gearcase Size	Output OHL (Lbs)	Output Torque (In--Lbs)	Output HP	Part Number
350	5.0	FC56	WG12A	520	73	0.41	*
233	7.5	FC56	WG12A	495	107	0.40	*
175	10.0	FC56	WG12A	472	139	0.39	X91147
138	12.7	FC56	WG12A	442	181	0.39	*
117	15.0	FC56	WG12A	425	204	0.38	*
97	18.0	FC56	WG12A	395	245	0.38	X75944
87	20.0	FC56	WG16A	390	262	0.36	X91653
70	25.0	FC56	WG16A	980	327	0.36	X75906
58	30.0	FC56	WG16A	978	368	0.34	X75907
44	40.0	FC56	WG16A	968	457	0.32	X91334
35	50.0	FC56	WG16A	960	542	0.30	X75913
29	60.0	FC56	WG21A	1315	653	0.30	*
25	70.0	FC56	CG12A	1130	969	0.37	*
20	86.0	FC56	CG16A	1770	1135	0.37	*
17	101.0	FC56	CG16A	1760	1356	0.37	*
14	121.0	FC56	CG16A	1750	1454	0.33	*
12	144.0	FC56	CG16A	1740	1713	0.33	*
11	162.0	FC56	CG16A	1710	1819	0.31	*
9	192.0	FC56	CG16A	1660	2154	0.31	X90539
7	240.0	FC56	CG16A	1320	2683	0.30	*
6	288.0	FC56	CG21A	2880	3062	0.30	*

Motor Info: TENV 1750 Rpm, 3 Phase, 60 Hz 230/460 Volts, Standard Efficient

* Made to Order

XL Right Angle Gearmotors

.75 HP

Output RPM	Ratio	Motor Frame	Gearcase Size	Output OHL (Lbs)	Output Torque (In--Lbs)	Output HP	Part Number
350	5.0	FC56	WG12A	490	114	0.64	*
233	7.5	FC56	WG12A	450	168	0.62	*
175	10.0	FC56	WG12A	430	219	0.61	X91149
138	12.7	FC56	WG16A	920	278	0.61	*
117	15.0	FC56	WG16A	960	325	0.60	*
97	18.0	FC56	WG16A	980	377	0.58	X75949
87	20.0	FC56	WG16A	975	408	0.57	X91285
70	25.0	FC56	WG16A	965	505	0.56	X75901
58	30.0	FC56	WG16A	960	567	0.53	X75950
44	40.0	FC56	WG21A	1310	736	0.51	*
35	50.0	FC56	WG21A	1300	875	0.49	X75951
29	60.0	FC56	WG21A	1290	1004	0.47	*
25	70.0	FC56	CG16A	1740	1525	0.59	*
20	86.0	FC56	CG16A	1720	1766	0.57	*
17	101.0	FC56	CG16A	1680	2100	0.57	*
14	121.0	FC56	CG16A	2890	2395	0.55	*
12	144.0	FC56	CG16A	2880	2821	0.55	*
11	162.0	FC56	CG21A	2880	2931	0.50	*
9	192.0	FC56	CG21A	2860	3453	0.50	*
7	240.0	FC56	CG21A	2810	4104	0.48	*
6	288.0	FC56	CG21A	2690	4753	0.46	*

Motor Info: TENV 1750 Rpm, 3 Phase, 60 Hz 230/460 Volts, Standard Efficient

* Made to Order

Introduction

DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

XL Right Angle Gearmotors

1.0 HP

Output RPM	Ratio	Motor Frame	Gearcase Size	Output OHL (Lbs)	Output Torque (In--Lbs)	Output HP	Part Number
350	5.0	FC56	WG12A	460	156	0.87	*
233	7.5	FC56	WG12A	465	231	0.86	*
175	10.0	FC56	WG16A	810	301	0.84	*
138	12.7	FC56	WG16A	885	378	0.83	*
117	15.0	FC56	WG16A	920	441	0.82	*
97	18.0	FC56	WG16A	960	511	0.79	X80190
87	20.0	FC56	WG16A	960	554	0.77	X91291
70	25.0	FC56	WG21A	1310	710	0.79	*
58	30.0	FC56	WG21A	1307	811	0.75	X80220
44	40.0	FC56	WG21A	1292	995	0.69	X91317
35	50.0	FC56	CG16A	1740	1501	0.81	X80730
29	60.0	FC56	CG16A	1720	1768	0.81	*
25	70.0	FC56	CG16A	1680	2069	0.80	*
20	86.0	FC56	CG16A	1610	2396	0.77	*
17	101.0	FC56	CG21A	2880	2825	0.77	*
14	121.0	FC56	CG21A	2870	3244	0.74	*
12	144.0	FC56	CG21A	2840	3821	0.74	*
11	162.0	FC56	CG21A	2820	3963	0.68	*
9	192.0	FC56	CG21A	2740	4668	0.68	*
7	240.0	FC56	CG28A	5900	5555	0.65	*

Motor Info: TENV 1750 Rpm, 3 Phase, 60 Hz 230/460 Volts, Standard Efficient

* Made to Order

XL Right Angle Gearmotors

1.5 HP

Output RPM	Ratio	Motor Frame	Gearcase Size	Output OHL (Lbs)	Output Torque (In--Lbs)	Output HP	Part Number
350	5.0	FC145	WG16A	660	241	1.34	*
233	7.5	FC145	WG16A	720	354	1.31	*
175	10.0	FC145	WG16A	760	461	1.28	*
138	12.7	FC145	WG16A	820	577	1.26	*
117	15.0	FC145	WG21A	1315	681	1.26	*
97	18.0	FC145	WG21A	1308	818	1.26	X80280
87	20.0	FC145	WG21A	1300	898	1.25	*
70	25.0	FC145	WG21A	1290	1083	1.20	*
58	30.0	FC145	CG16A	1750	1409	1.28	X91504
48	36.0	FC145	CG16A	1730	1659	1.28	*
44	40.0	FC145	CG16A	1710	1837	1.26	*
35	50.0	FC145	CG16A	1640	2290	1.24	X91044
29	60.0	FC145	CG21A	2880	2772	1.27	*
25	70.0	FC145	CG21A	2870	3195	1.24	*
20	86.0	FC145	CG21A	2820	3834	1.24	*
17	101.0	FC145	CG21A	2780	4312	1.18	*
14	121.0	FC145	CG28A	5910	4895	1.13	*
12	144.0	FC145	CG28A	5900	5836	1.13	*
11	162.0	FC145	CG28A	5880	5932	1.03	*
9	192.0	FC145	CG28A	5830	7072	1.03	*
7	240.0	FC145	CG28A	5770	8542	1.00	*

Motor Info: TENV 1750 Rpm, 3 Phase, 60 Hz 230/460 Volts, Standard Efficient

* Made to Order

Introduction

DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

XL Right Angle Gearmotors

2.0 HP

Output RPM	Ratio	Motor Frame	Gearcase Size	Output OHL (Lbs)	Output Torque (In--Lbs)	Output HP	Part Number
350	5.0	FD145	WG16A	632	325	1.80	*
233	7.5	FD145	WG16A	635	479	1.78	*
175	10.0	FD145	WG21A	1130	629	1.75	*
138	12.7	FD145	WG21A	1190	798	1.75	*
117	15.0	FD145	WG21A	1270	916	1.70	*
97	18.0	FD145	WG21A	1285	1099	1.70	X90721
87	20.0	FD145	CG16A	1760	1293	1.77	*
70	25.0	FD145	CG16A	1740	1523	1.77	*
58	30.0	FD145	CG16A	1750	1909	1.74	X91509
48	36.0	FD145	CG16A	1640	2201	1.70	*
44	40.0	FD145	CG21A	2900	2502	1.71	*
35	50.0	FD145	CG21A	2870	3170	1.71	*
29	60.0	FD145	CG21A	2840	3734	1.71	*
25	70.0	FD145	CG21A	2790	4296	1.66	*
20	86.0	FD145	CG21A	2670	5196	1.66	*
17	101.0	FD145	CG28A	5900	5660	1.57	*
14	121.0	FD145	CG28A	5850	6631	1.54	*
12	144.0	FD145	CG28A	5800	7905	1.54	*
11	162.0	FD145	CG28A	5800	8020	1.39	*
9	192.0	FD145	CG28A	5725	9563	1.39	*

Motor Info: TENV 1750 Rpm, 3 Phase, 60 Hz 230/460 Volts, Standard Efficient

* Made to Order

Introduction

DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

XL Right Angle Gearmotors

3.0 HP

Output RPM	Ratio	Motor Frame	Gearcase Size	Output OHL (Lbs)	Output Torque (In--Lbs)	Output HP	Part Number
350	5.0	182	WG21A	918	496	2.75	*
233	7.5	182	WG21A	995	728	2.70	*
175	10.0	182	WG21A	1025	953	2.65	*
138	12.7	182	WG28A	2055	1202	2.63	*
117	15.0	182	WG28A	2160	1378	2.55	*
97	18.0	182	WG28A	2230	1654	2.55	*
87	20.0	182	WG28A	2240	1781	2.47	*
70	25.0	182	WG28A	2220	2200	2.44	*
58	30.0	182	CG21A	2880	2898	2.64	*
48	36.0	182	CG21A	2860	3413	2.64	X91091
44	40.0	182	CG21A	2835	3792	2.59	*
35	50.0	182	CG28A	5925	4701	2.58	*
29	60.0	182	CG28A	5900	5605	2.58	*
25	70.0	182	CG28A	5850	6641	2.58	*
20	86.0	182	CG28A	5800	7968	2.58	*
17	101.0	182	CG28A	5760	8624	2.40	*
12	144.0	182	CG40A	8850	10,963	2.19	*
11	162.0	182	CG40A	8850	12,127	2.11	*
9	192.0	182	CG40A	8800	14,022	2.11	*
7	240.0	182	CG40A	8700	16,886	2.03	*
6	288.0	182	CG40A	8550	19,567	1.96	*

Motor Info: TENV 1750 Rpm, 3 Phase, 60 Hz 230/460 Volts, Standard Efficient

* Made to Order

Introduction

DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

XL Right Angle Gearmotors

5.0 HP

Output RPM	Ratio	Motor Frame	Gearcase Size	Output OHL (Lbs)	Output Torque (In--Lbs)	Output HP	Part Number
350	5.0	184	WG28A	1530	824	4.58	*
233	7.5	184	WG28A	1685	1225	4.54	*
175	10.0	184	WG28A	1790	1620	4.5	*
138	12.7	184	WG28A	1800	1955	4.28	*
117	15.0	184	CG28A	3830	2289	4.24	*
97	18.0	184	CG28A	3820	2691	4.15	*
87	20.0	184	CG21A	2860	3321	4.54	*
70	25.0	184	CG21A	2820	3912	4.54	*
58	30.0	184	CG28A	5910	4803	4.45	*
48	36.0	184	CG28A	5880	5727	4.45	*
44	40.0	184	CG28A	5860	6314	4.39	*
35	50.0	184	CG28A	5800	7955	4.36	*
29	60.0	184	CG28A	5720	9484	4.36	*
25	70.0	184	CG28A	5800	10,469	4.15	*
20	86.0	184	CG40A	8840	12,163	4.07	*
17	101.0	184	CG40A	8760	14,387	3.96	*
14	121.0	184	CG40A	8700	16,323	3.78	*
12	144.0	184	CG40A	8550	18,908	3.78	*
11	162.0	184	CG40A	8400	20,820	3.62	*
9	192.0	184	CG40A	8200	24,073	3.62	*

Motor Info: TENV 1750 Rpm, 3 Phase, 60 Hz 230/460 Volts, Standard Efficient

* Made to Order

XL Right Angle Gearmotors

7.5 HP

Output RPM	Ratio	Motor Frame	Gearcase Size	Output OHL (Lbs)	Output Torque (In--Lbs)	Output HP	Part Number
350	5.0	213	WG40A	3100	1224	6.80	*
233	7.5	213	WG40A	3450	1820	6.74	*
175	10.0	213	CG28A	5400	2407	6.69	*
138	12.7	213	CG28A	5820	2996	6.55	*
117	15.0	213	CG28A	5800	3504	6.49	*
97	18.0	213	CG28A	5800	4117	6.35	*
87	20.0	213	CG28A	5920	4888	6.79	*
70	25.0	213	CG28A	5880	5827	6.79	*
58	30.0	213	CG28A	5820	7264	6.73	*
48	36.0	213	CG28A	5760	8661	6.73	*
35	50.0	213	CG40A	8850	11,789	6.42	*
25	70.0	213	CG40A	8700	16,025	6.36	*
20	86.0	213	CG40A	8590	18,605	6.23	*
17	101.0	213	CG40A	8350	21,959	6.04	*

Motor Info: TENV 1750 Rpm, 3 Phase, 60 Hz 230/460 Volts, Standard Efficient

* Made to Order

Introduction

DODGE APG

MASTER XL

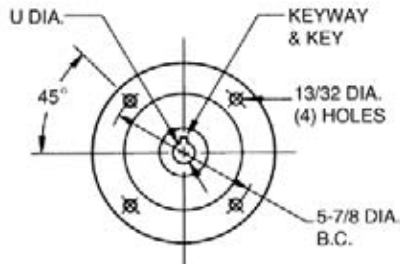
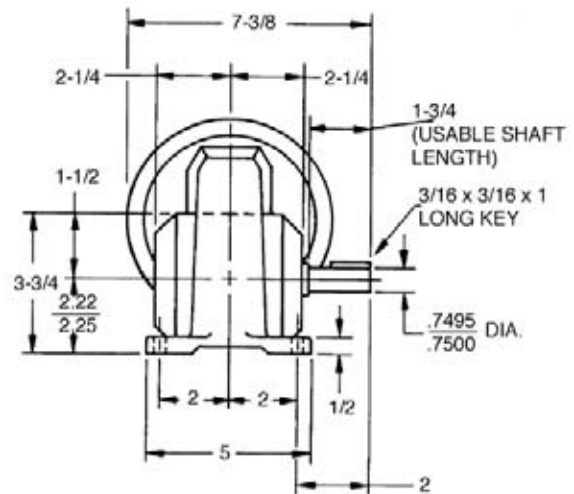
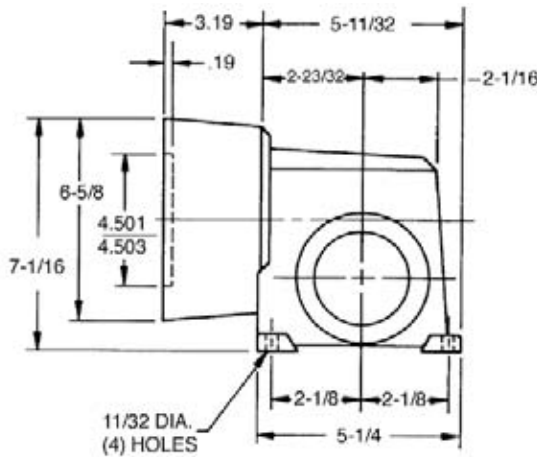
DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

XL Right Angle Reducers

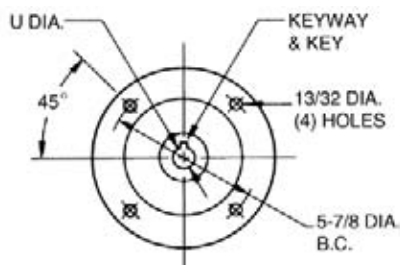
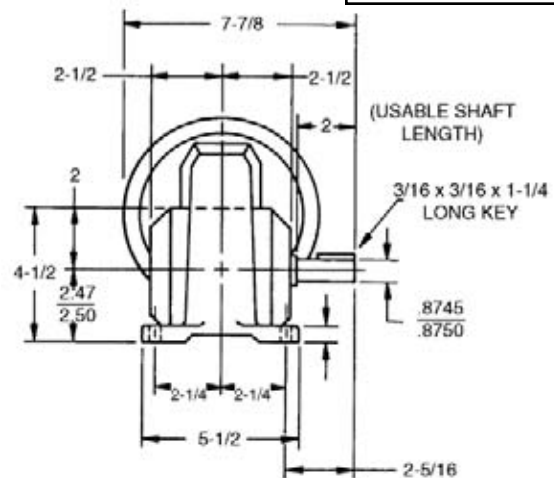
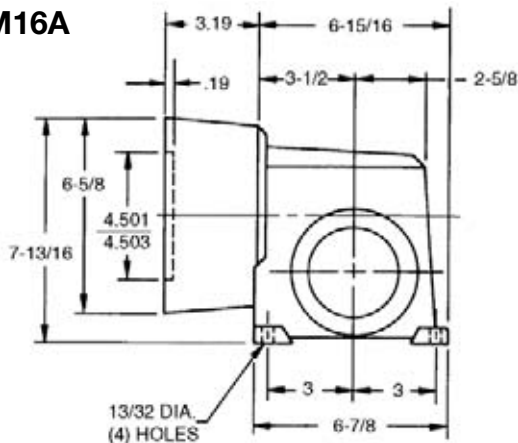
SIZE WM12A



Frame	U		Keyway	Uses Key
	Min.	Max		
48Y, 56C	.626	.627	3/16 x 3/32	3/16 x 3/16 x 1-1/4
140TC, 160ATC	.876	.877		

NOTE:
Multimount
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J Mount
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Flange Mount
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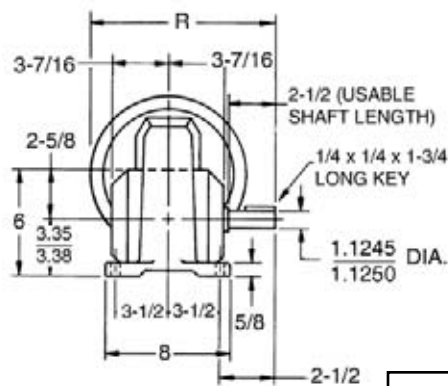
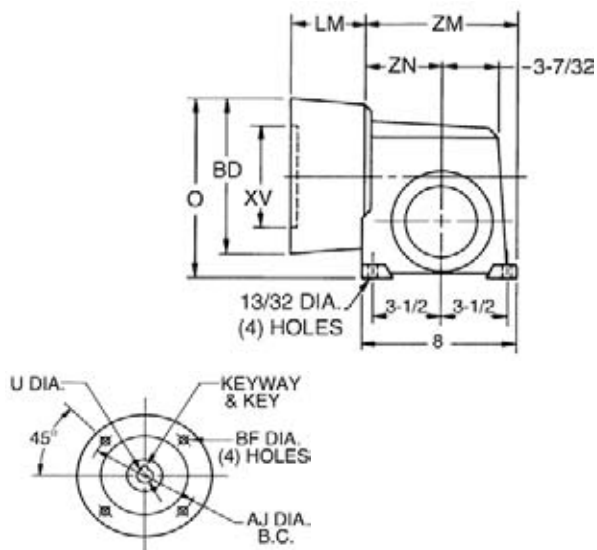
SIZE WM16A



Frame	U		Keyway	Uses Key
	Min.	Max		
48Y, 56C	.626	.627	3/16 x 3/32	3/16 x 3/16 x 1-1/4
140TC, 160ATC	.876	.877		

NOTE:
Multimount
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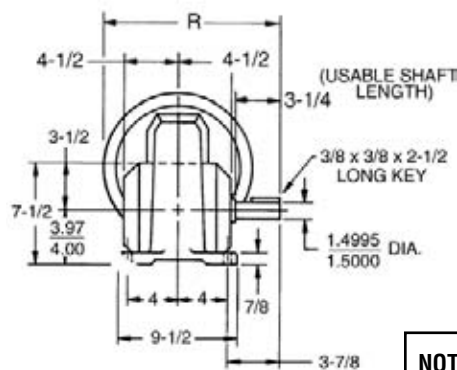
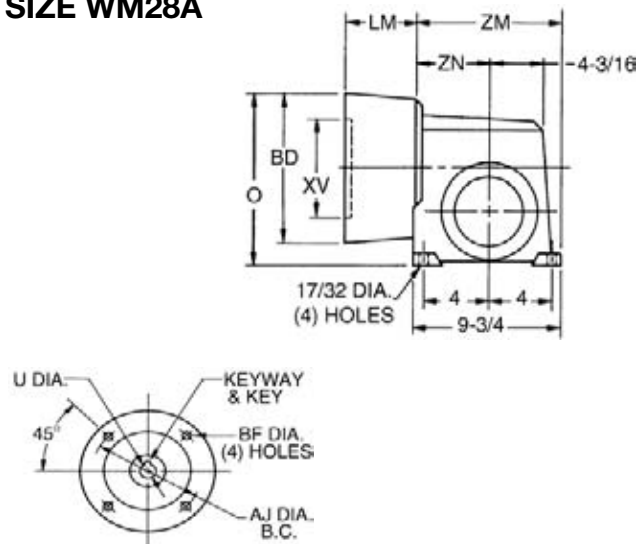
XL Right Angle Reducers SIZE WM21A



NOTE:
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Flange Mount
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Frame	AJ	BD	BF	LM	U		Keyway	XV	ZM	ZN	O	R	Uses Key
					Min.	Max.							
48Y, 56C	5-7/8	6-5/8	13/32	3-3/16	0.626	0.627	3/16 x 3/32	4.501/4.503	8-1/4	4-1/4	9-5/16	10	3/16 x 3/16 x 1-1/4
140TC, 160ATC	5-7/8	6-5/8	13/32	3-3/16	0.876	0.877	3/16 x 3/32	4.501/4.503	8-1/4	4-1/4	9-5/16	10	3/16 x 3/16 x 1-1/4
180TC, 180ATCZ	7-1/4	9	17/32	4-5/32	1.126	1.127	1/4 x 1/8	8.500/8.502	8-15/16	4-15/16	10-1/2	10-1/2	1/4 x 1/4 x 1-3/4
210TC, 210ATCZ	7-1/4	9	17/32	4-21/32	1.376	1.377	5/16 X 5/32	8.500/8.502	8-15/16	4-15/16	10-1/2	10-1/2	5/16 X 5/16 X 2-1/4

SIZE WM28A

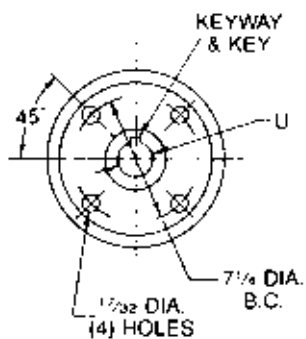
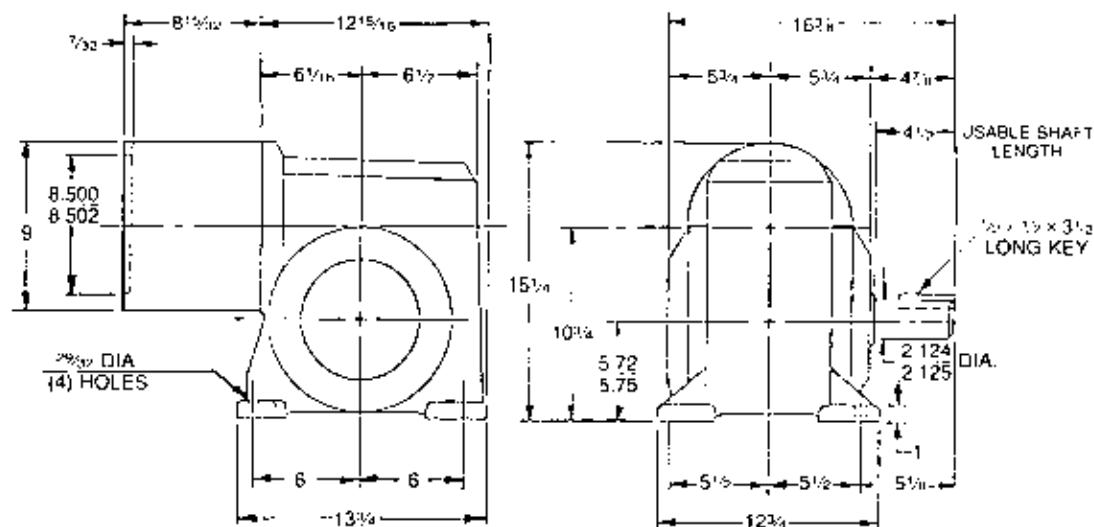


NOTE:
Multimount
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Frame	AJ	BD	BF	LM	U		Keyway	XV	ZM	ZN	O	R	Uses Key
					Min.	Max.							
48Y, 56C	5-7/8	6-5/8	13/32	3-3/16	0.626	0.627	3/16 x 3/32	4.501/4.503	10-15/32	5-23/32	10-13/16	12-29/32	3/16 x 3/16 x 1-1/4
140TC, 160ATC	5-7/8	6-5/8	13/32	3-3/16	0.876	0.877	3/16 x 3/32	4.501/4.503	10-15/32	5-23/32	10-13/16	12-29/32	3/16 x 3/16 x 1-1/4
180TC, 180ATCZ	7-1/4	9	17/32	4-5/32	1.126	1.127	1/4 x 1/8	8.500/8.502	10-15/16	6-3/16	12	12-29/32	1/4 x 1/4 x 1-3/4
210TC, 210ATCZ	7-1/4	9	17/32	4-21/32	1.376	1.377	5/16 x 5/32	8.500/8.502	10-15/16	6-3/16	12	12-29/32	5/16 x 5/16 x 2-1/4

XL Right Angle Reducers

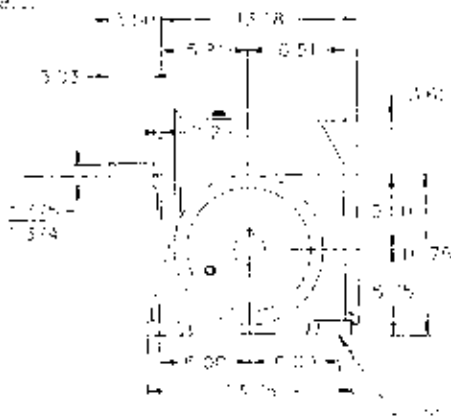
SIZE WM40A



Frame	U		Keyway	Uses Key
	Min.	Max.		
180TC/180ATCZ	1.126	1.127	1/4 x 1/8	1/4 x 1-1/4 x 1-3/4
210TC/210ATCZ	1.376	1.377	5/16 x 5/32	5/16 x 5/16 x 2-1/4
250TC/250ATCZ	1.626	1.627	3/8 x 3/16	3/8 x 3/8 x 2-3/4

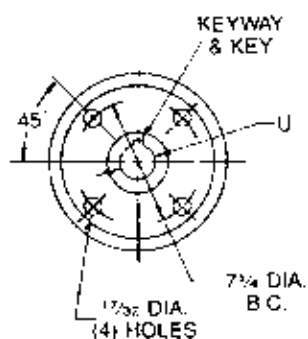
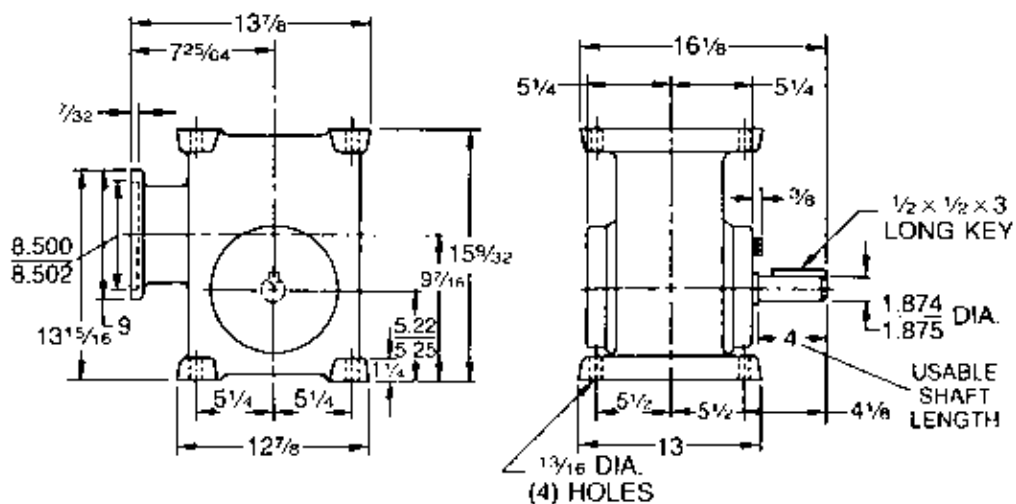
NOTE:
J Mount
Dimensions Page D3-44
Flange Mount
Dimensions Page D3-46

17-11-1979
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XL Right Angle Reducers

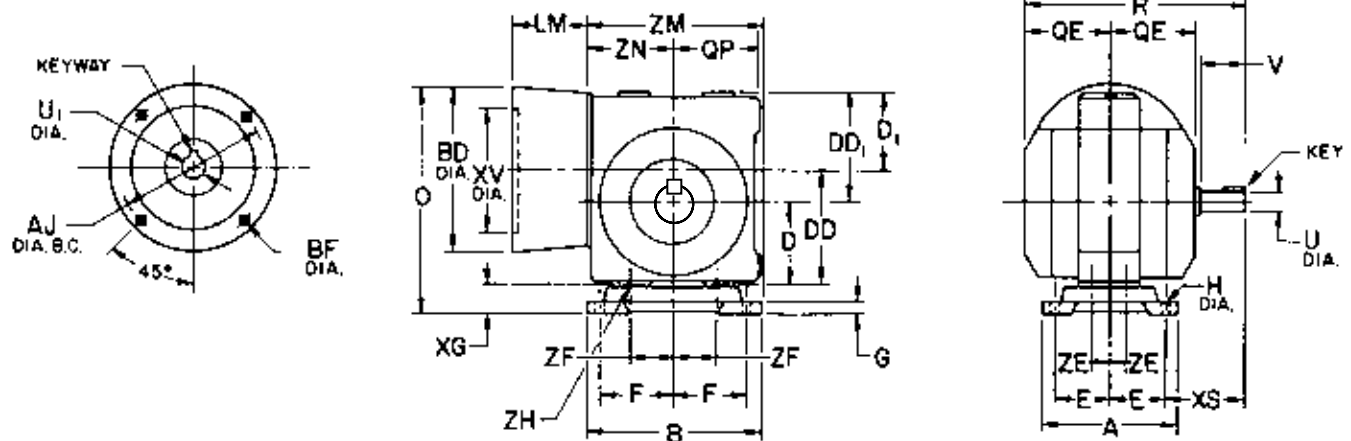
SIZE H419



Frame	U		Keyway	Uses Key
	Min.	Max		
180TC/180ATCZ	1.1255	1.1265	1/4 x 1/8	1/4 x 1/4 x 2
210TC/210ATCZ	1.3750	1.3765	5/16 x 5/32	5/16 x 5/16 x 2-1/4

XL Right Angle Reducers- Multimount

SIZES WM12B - WM28B



XL Right Angle Reducers- Multimount

SIZES WM12B - WM28B

Case Size	A	B	D ◇	D ₁	E	F	G	H (4) Holes	DD	DD ₁	QE	QP	XG
WM12B	5	5-1/4	2-3/16	2-7/16	2	2-1/8	1/2	11/32	3-11/16	3-15/16	2-1/4	2-9/32	1-1/16
WM16B	5-1/2	6-7/8	2-7/16	2-7/16	2-1/4	3	5/8	13/32	4-7/16	4-7/16	2-1/2	2-31/32	1-1/16
WM21B	8	8	3-5/16	2-11/16	3-1/2	3-1/2	3/4	13/32	5-15/16	5-5/16	3-7/16	3-21/32	1-15/16
WM28B	9-1/4	9-1/4	4-1/16	2-11/16	4	4	3/4	17/32	7-9/16	6-3/16	4-1/2	4-11/16	1-15/16

Case Size	ZE	ZF	ZH ⊕	Output Shaft			XS
				U <	V ‡	Key	
WM12B	15/16	1-7/16	3/8-16 TAP	5/8 DP.	3/4	1-3/4	2-1/16
WM16B	15/16	1-3/4	3/8-16 TAP	3/4 DP.	7/8	2	2-5/16
WM21B	1-1/8	2	1/2-13 TAP	13/16 DP.	1-1/8	2-1/2	2-1/2
WM28B	1-1/8	3-1/4	1/2-13 TAP	13/16 DP.	1-1/2	3-1/4	3-7/8

Case Size	For Motor Frames:											
	56C											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ◆	ZM	ZN
								U *	Keyway ✦			
WM12B	25	8-5/16	7-3/8	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	5-11/32	2-23/32
WM16B	40	8-13/16	7-7/8	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	6-15/16	3-1/2
WM21B	73	11-3/16	10	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	8-1/4	4-1/2
WM28B	117	12-13/16	12-29/32	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	10-15/32	5-23/32

Case Size	For Motor Frames:											
	140TC/160ATC											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ◆	ZM	ZN
								U *	Keyway ✦			
WM16B	40	8-13/16	7-7/8	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	6-15/16	3-1/2
WM21B	73	11-3/16	10	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	8-1/4	4-1/4
WM28B	117	12-13/16	12-29/32	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	10-15/32	5-23/32

Case Size	For Motor Frames:											
	180TC/180ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ■	ZM	ZN
								U *	Keyway ★			
WM16B	...	...	...	...	...	...	...	...	.....	...	...	...
WM21B	88	12-3/8	10-1/2	7-1/4	9	1-7/32	4-5/32	1-1/8	1/4 x 1/8	8-1/2	8-15/16	4-15/16
WM28B	135	14	12-29/32	7-1/4	9	1-7/32	4-5/32	1-1/8	1/4 x 1/8	8-1/2	10-7/8	6-3/16

Case Size	For Motor Frames:											
	210TC/210ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ■	ZM	ZN
								U *	Keyway ▲			
WM28B	145	14	12-1/2	7-1/4	9	1-7/32	4-21/32	1-3/8	5/16 X 5-32	8-1/2	10-7/8	6-3/16

◇ "D" varies + 0, -1/32.

▲ At highest point.

◆ + .001 + .003.

★ Using 1/4 x 1/4 x 1-3/4 key.

‡ Usable shaft length.

§ At widest point.

■ + .000 + .002.

♣ Using 5/16 x 5/16 x 2-1/4 key.

< +.0000 - .0005.

* + .001 + .002.

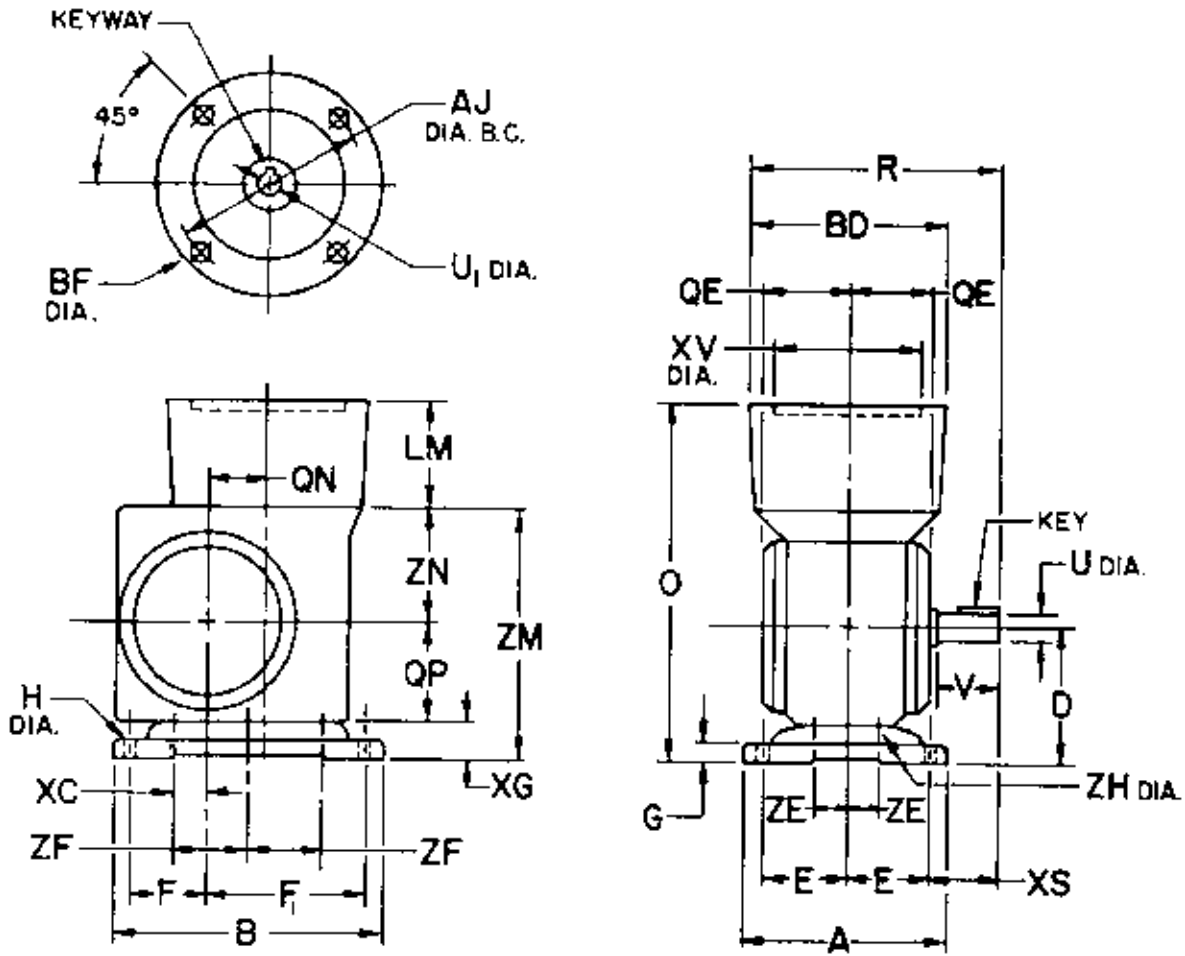
✦ Using 3/16 x 3/16 x 1-1/4 key.

+ ATCZ Shaft extn. must match TC extn.

⊕ 8 holes (4 top, 4 bottom)

XL Right Angle Reducers- J Mount

SIZES WM12J - WM40J



XL Right Angle Reducers- J Mount

SIZES WM12J - WM40J

Case Size	A	B	D ◇	E	F	F ₁	G	H (4) Holes	QE	QN	QP	XC	XG
WM12J	5-1/2	6-7/8	3-1/4	2-1/4	2	4	5/8	13/32	2-1/4	1-1/2	2-3/16	3/4	1-1/16
WM16J	6	8	3-15/16	2-1/2	2-1/4	4-3/4	1/2	13/32	2-1/2	2	2-7/8	15/16	1-1/16
WM21J	9-1/4	12-1/4	5-1/2	4	4-11/16	6-5/16	3/4	17/32	3-7/16	2-5/8	3-9/16	2-7/16	1-15/16
WM28J	9-1/4	12-1/4	6-1/2	4	4-3/8	6-5/8	3/4	17/32	4-1/2	3-1/2	4-9/16	2-1/8	1-15/16
WM40J	15	20-1/2	10	6-1/4	7-7/8	10-5/8	1-1/4	1-1/16	5-3/4	5	7	4-1/4	3

Case Size	ZE	ZF	ZH	Output Shaft			XS
				U <	V ‡	Key	
WM12J	15/16	1-3/4	3/8-16 TAP	5/8 DP.	3/4	1-3/4	3/16 x 3/16 x 1
WM16J	15/16	2-3/16	3/8-16 TAP	3/4 DP.	7/8	2	3/16 x 3/16 x 1-1/4
WM21J	1-1/8	3-1/4	1/2-13 TAP	13/16 DP.	1-1/8	2-1/2	1/4 x 1/4 x 1-3/4
WM28J	1-1/8	3-1/4	1/2-13 TAP	13/16 DP.	1-1/2	3-1/4	3/8 x 3/8 x 2-1/2
WM40J	2-1/4	5-5/8	7/8-9 TAP	1-9/16 DP.	2-1/8	4-1/2	1/2 x 1/2 x 3-1/2

Case Size	For Motor Frames:											
	56C											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ◆	ZM	ZN
U ✱								Keyway ✧				
WM12J	28	9-5/32	7-27/64	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	5-11/32	2-23/32
WM16J	41	10-5/8	7-59/64	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	7-7/16	3-1/2
WM21J	79	12-15/16	9-7/16	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	8-1/4	4-1/2
WM28J	120	15-13/32	12-3/8	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	10-15/32	5-23/32
WM40J	...	...	...	...	...	...	...	...	...	...	...	...

Case Size	For Motor Frames: 140TC/160ATC											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ◆	ZM	ZN
								U *	Keyway ✱			
WM16J	41	10-5/8	7-59/64	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	7-7/16	3-1/2
WM21J	79	12-15/16	9-7/16	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	9-3/4	4-1/4
WM28J	120	15-13/32	12-3/8	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	12-7/32	5-23/32
WM40J	...	...	...	...	...	...	...	...	...	...	...	...

Case Size	For Motor Frames:											
	180TC/180ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ■	ZM	ZN
U *								Keyway ★				
WM16J	...	...	...	...	...	...	...	...	...	...	...	...
WM21J	94	14-39/64	10-39/64	7-1/4	9	17/32	4-5/32	1-1/8	1/4 x 1/8	8-1/2	10-7/16	4-15/16
WM28J	138	17-11/32	12-1/2	7-1/4	9	17/32	4-5/32	1-1/8	1/4 x 1/8	8-1/2	12-11/16	6-3/16
WM40J	366	24-17/64	16-3/8	7-1/4	9	17/32	8-15/32	1-1/8	1/4 x 1/8	8-1/2	15-13/16	5-13/16

Case Size	For Motor Frames: 210TC/210ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ■	ZM ●	ZN
								U ✱	Keyway ♣			
WM21J	104	14-39/64	10-39/64	7-1/4	9	17/32	4-21/32	1-3/8	5/16 x 5/32	8-1/2	10-7/16	4-15/16
WM28J	148	17-11/32	12-1/2	7-1/4	9	17/32	4-21/32	1-3/8	5/16 x 5/32	8-1/2	12-11/16	6-3/16
WM40J	376	24-17/64	16-3/8	7-1/4	9	17/32	8-15/32	1-3/8	5/16 x 5/32	8-1/2	15-13/16	5-13/16

Case Size	For Motor Frames:											
	210TC/210ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ■	ZM ●	ZN
								U ✱	Keyway ♣			
WM21J	...	...	...	...	...	...	...	...	...	...	...	...
WM28J	...	...	...	...	...	...	...	...	...	...	...	...
WM40J	376	24-17/64	16-3/8	7-1/4	9	17/32	8-15/32	1-5/8	3/8 x 3/16	8-1/2	15-13/16	5-13/16

◇ "D" varies + 0, -1/32.

‡ Usable shaft length.

< +.0000 -.0005.

▲ At highest point.

§ At widest point.

● Includes bolt-on foot.

* +.001 +.002.

◆ +.001 +.003.

■ +.000 +.002.

♣ Using 3/16 x 3/16 x 1-1/4 key.

★ Using 1/4 x 1/4 x 1-3/4 key.

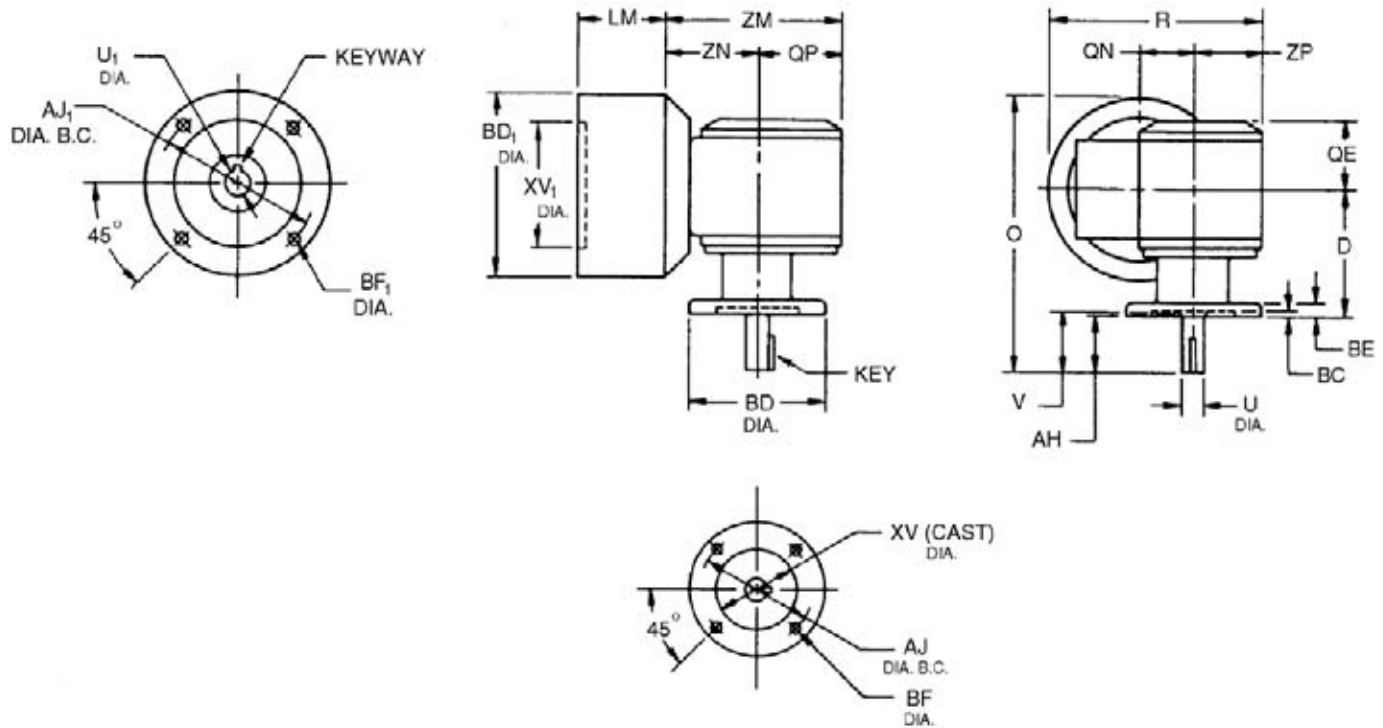
♣ Using 5/16 x 5/16 x 2-1/4 key.

♣ Using 3/8 x 3/8 x 2-3/4 key

+ ATCZ Shaft extrn. must match TC extrn.

XL Right Angle Reducers - Flange Mount

SIZES WM12F - WM40F



XL Right Angle Reducers - Flange Mount

SIZES WM12F - WM40F

Case Size	D ↓	BE	BF (4) * Holes	AH	AJ	BC	BD	QE	QN	QP	XV	ZP	Output Shaft		
													U <	V ‡	Key
WM12F	3-3/4	3/8	5/16	1-11/16	3-1/8	1/4	4	2-1/4	1-1/2	2-9/32	2-1/4	2-3/16	3/4	1-13/16	3/16 x 3/16 x 1
WM16F	4-5/8	7/16	13/32	2-1/16	4	1/8	5	2-1/2	2	2-31/32	3	2-7/16	7/8	2-3/16	3/16 x 3/16 x 1-1/4
WM21F	5-7/8	1/2	13/32	2-7/16	6-1/8	1/16	7	3-7/16	2-5/8	3-31/32	5	3-5/16	1-1/8	2-1/2	1/4 x 1/4 x 1-3/4
WM28F	6-7/8	5/8	17/32	3-3/16	8-1/2	1/16	10	4-1/2	3-1/2	4-11/16	6-3/4	4-1/16	1-1/2	3-1/4	3/8 x 3/8 x 2-1/2
WM40F	7-1/8	3/4	17/32	3-1/2	15-1/4	1/8	16-1/2	5-3/4	5	7-3/16	13-1/2	5-5/8	2-1/8	4-1/2	1/2 x 1/2 x 3-1/2

Case Size	For Motor Frames:											
	56C											
	Wt. (Lbs.)	O ▲	R §	AJ ₁	BD ₁	BF ₁ (4) Holes	LM	Input Bore		XV ₁ ◆	ZM	ZN
								U *	Keyway ♣			
WM12F	25	8-3/4	7	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	5	2-23/32
WM16F	39	10	7-3/4	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	6-15/32	3-1/2
WM21F	71	1-13/4	9-1/16	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	7-29/32	4-1/2
WM28F	119	14-9/16	10-7/8	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	10-13/32	5-23/32
WM40F	...	...	...	...	...	...	...	...	...	...	...	...

Case Size	For Motor Frames:											
	140TC/160ATC											
	Wt. (Lbs.)	O ▲	R §	AJ ₁	BD ₁	BF ₁ (4) Holes	LM	Input Bore		XV ₁ ◆	ZM	ZN
								U *	Keyway ♣			
WM12F	25	8-3/4	7	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	5	2-23/32
WM16F	39	10	7-3/4	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	6-15/32	3-1/2
WM21F	71	11-3/4	9-1/4	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	7-29/32	4-1/4
WM28F	119	14-9/16	10-7/8	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	10-13/32	5-23/32
WM40F	...	...	...	...	...	...	...	...	...	...	...	...

Case Size	For Motor Frames:											
	180TC/180ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ ₁	BD ₁	BF ₁ (4) Holes	LM	Input Bore		XV ₁ ■	ZM	ZN
								U *	Keyway ★			
WM12F	...	...	...	...	...	...	...	...	...	...	...	...
WM16F	...	...	...	...	...	...	...	...	...	...	...	...
WM21F	87	12-13/16	10-7/16	7-1/4	9	17/32	4-5/32	1-1/8	1/4 x 1/8	8-1/2	8-1/32	4-15/16
WM28F	137	14-9/16	12-1/16	7-1/4	9	17/32	4-5/32	1-1/8	1/4 x 1/8	8-1/2	10-7/8	6-3/16
WM40F	338	16-3/8	15-1/8	7-1/4	9	17/32	8-15/32	1-1/8	1/4 x 1/8	8-1/2	13	5-13/16

Case Size	For Motor Frames:											
	210TC/21-ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ ₁	BD ₁	BF ₁ (4) Holes	LM	Input Bore		XV ₁ ■	ZM	ZN
								U *	Keyway ♣			
WM28F	147	14-9/16	12-1/16	7-1/4	9	17/32	4-5/32	1-3/8	5/16 x 5/32	8-1/2	10-7/8	6-3/16
WM40F	348	16-3/8	15-1/8	7-1/4	9	17/32	8-15/32	1-3/8	5/16 x 5/32	8-1/2	13	5-13/16

Case Size	For Motor Frames:											
	250TC/250ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ ₁	BD ₁	BF ₁ (4) Holes	LM	Input Bore		XV ₁ ■	ZM	ZN
								U *	Keyway ♣			
WM28F	...	...	...	...	...	...	...	...	...	...	...	...
WM40F	348	16-3/8	15-1/8	7-1/4	9	17/32	8-15/32	1-5/8	3/8 x 3/8	8-1/2	13	5-13/16

↓ "D" varies + 0, -1/32.

‡ Usable shaft length.

< +.0000 -.0005.

▲ At highest point.

§ At widest point.

* +.001 +.002.

◆ +.001 +.003.

■ +.000 +.002.

♣ Using 3/16 x 3/16 x 11/4 key.

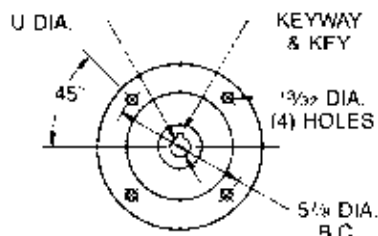
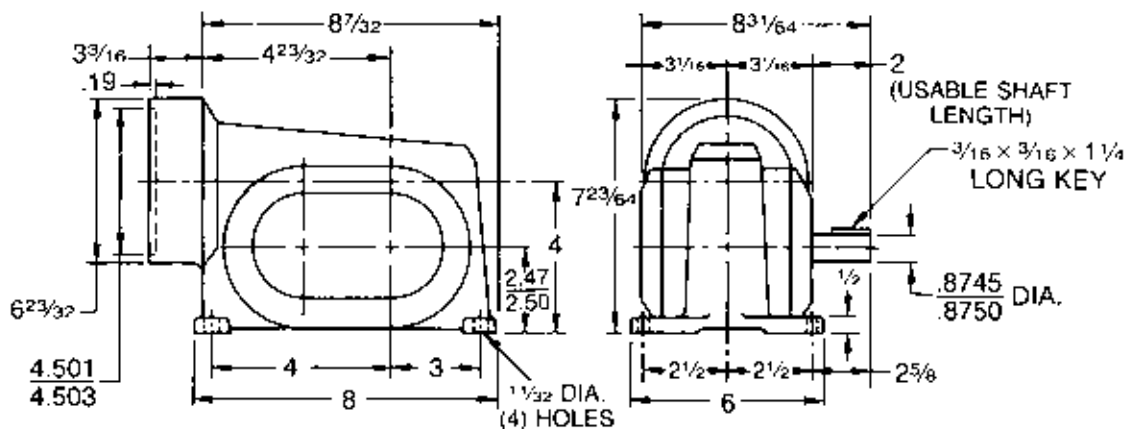
★ Using 1/4 x 1/4 x 13/4 key.

♣ Using 5/16 x 5/16 x 21/4 key.

♣ Using 3/8 x 3/8 x 23/4 key

+ ATCZ Shaft extrn. must match TC extrn.

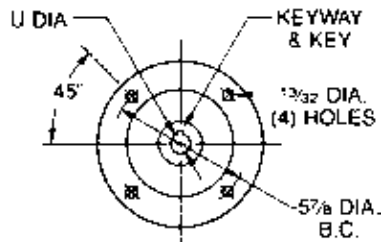
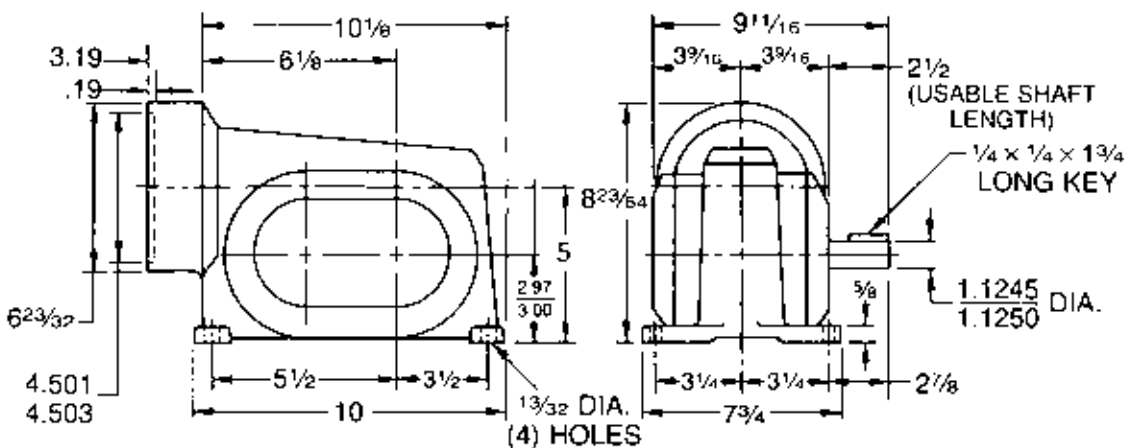
XL Right Angle Reducers SIZE CM12A



Frame	U		Keyway	Uses Key
	Min.	Max.		
56C	.626	.627	3/16 x 3/32	3/16 x 3/16 x 1-1/4
140TC, 160ATC	.876	.877		

NOTE:
Multimount
Dimensions Page D3-52
J Mount
Dimensions Page D3-54
Flange Mount
Dimensions Page D3-56

SIZE CM16A

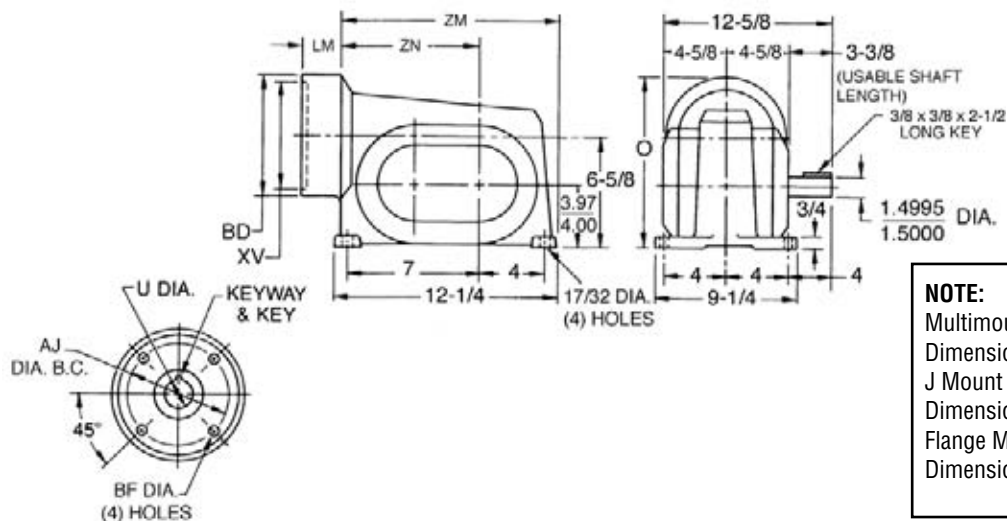


Frame	U		Keyway	Uses Key
	Min.	Max.		
56C	.626	.627	3/16 x 3/32	3/16 x 3/16 x 1-1/4
140TC, 160ATC	.876	.877		

NOTE:
Multimount
Dimensions Page D3-52
J Mount
Dimensions Page D3-54
Flange Mount
Dimensions Page D3-56

XL Right Angle Reducers

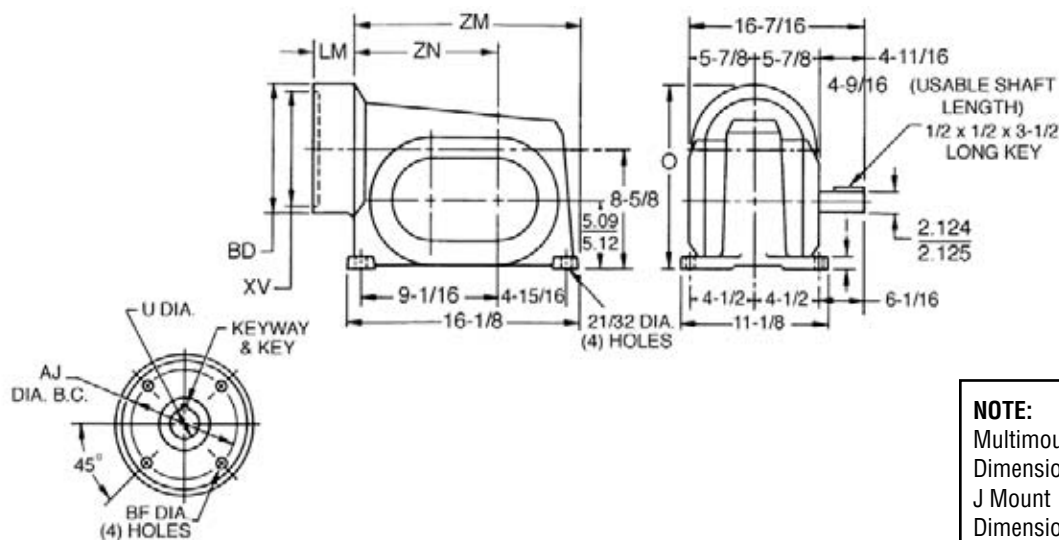
SIZE CM21A



NOTE:
 Multimount
 Dimensions Page D3-52
 J Mount
 Dimensions Page D3-54
 Flange Mount
 Dimensions Page D3-56

Frame	AJ	BD	BF	LM	U		Keyway	XV	ZM	ZN	O	Uses Key
					Min.	Max.						
56C	5-7/8	6-5/8	13/32	3-3/16	.626	.627	3/16 x 3/32	4.501/4.503	12-3/8	7-3/4	9-15/16	3/16 x 3/16 x 1-1/4
140TC, 160ATC	5-7/8	6-5/8	13/32	3-3/16	.876	.877	3/16 x 3/32	4.501/4.503	12-3/8	7-3/4	9-15/16	3/16 x 3/16 x 1-1/4
180TC, 180ATCZ	7-1/4	9	17/32	4-5/32	1.126	1.127	1/4 x 1/8	8.500/8.502	13-1/16	8-7/16	11-1/8	1/4 x 1/4 x 1-3/4
210TC, 210ATCZ	7-1/4	9	17/32	4-21/32	1.376	1.377	5/16 x 5/32	8.500/8.502	13-1/16	8-7/16	11-1/8	5/16 x 5/16 x 2-1/4

SIZE CM28A



NOTE:
 Multimount
 Dimensions Page D3-52
 J Mount
 Dimensions Page D3-54
 Flange Mount
 Dimensions Page D3-56

Frame	AJ	BD	BF	LM	U		Keyway	XV	ZM	ZN	O	Uses Key
					Min.	Max.						
140TC, 160ATC	5-7/8	6-5/8	13/32	3-3/16	.876	.877	3/16 x 3/32	4.501/4.503	16-15/32	10-15/32	11-15/16	3/16 x 3/16 x 1-1/4
180TC, 180ATCZ	7-1/4	9	17/32	4-5/32	1.126	1.127	1/4 x 1/8	8.500/8.502	16-15/16	10-15/16	13-1/8	1/4 x 1/4 x 1-3/4
210TC, 210ATCZ	7-1/4	9	17/32	4-21/32	1.376	1.377	5/16 x 5/32	8.500/8.502	16-15/16	10-15/16	13-1/8	5/16 x 5/16 x 2-1/4

Introduction

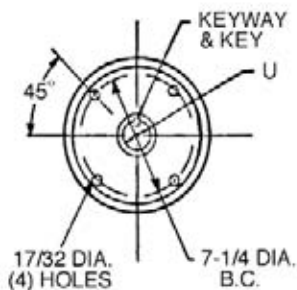
DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

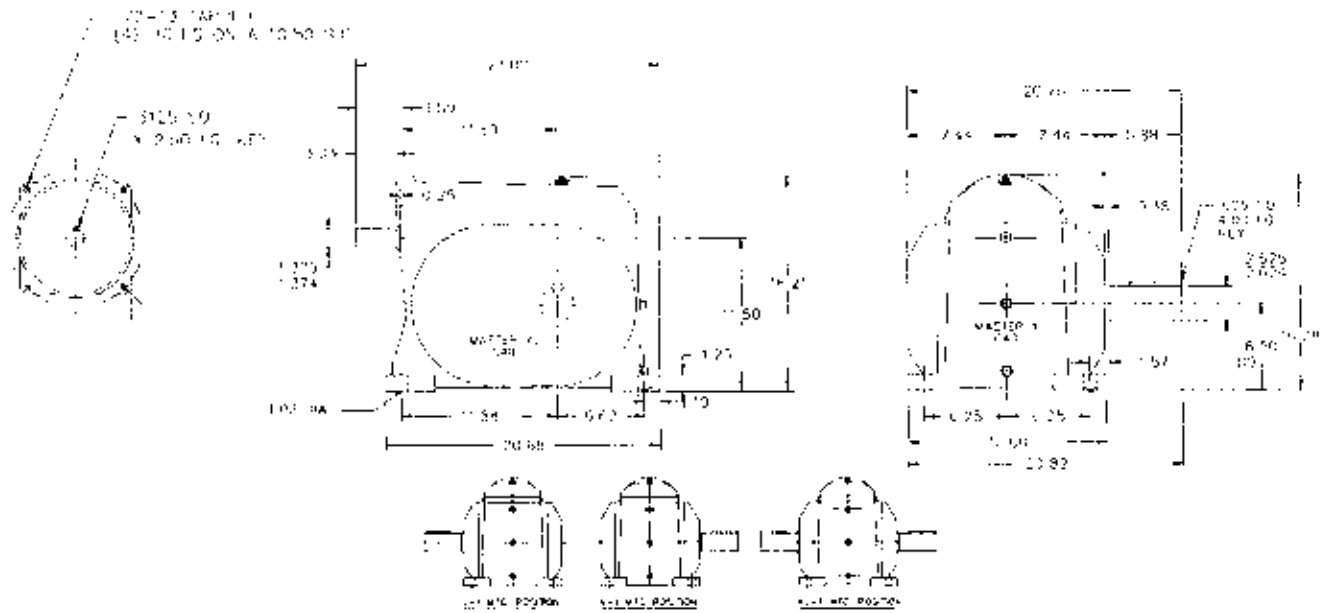


Frame	U		Keyway	Uses Key
	Min.	Max.		
180TC/180ATCZ	1.126	1.127	1/4 x 1/8	1/4 x 1-1/4 x 1-3/4
210TC/210ATCZ	1.376	1.377	5/16 x 5/32	5/16 x 5/16 x 2-1/4
250TC/250ATCZ	1.626	1.627	2/8 x 3/16	3/8 x 3/8 x 2-3/4

NOTE:
J Mount
Dimensions Page D3-54
Flange Mount
Dimensions Page D3-56

XL Right Angle Reducers

SIZE CR40A



Introduction

DODGE APG

MASTER XL

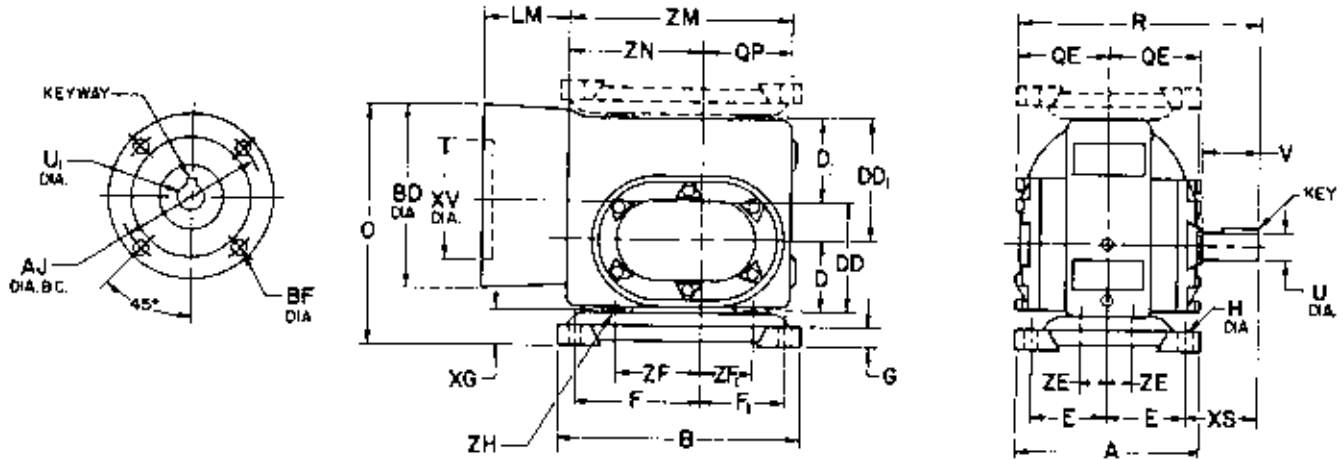
DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

XL Right Angle Reducers - Multimount

SIZES CM12B - CM21B



XL Right Angle Reducers - Multimount

SIZES CM12B - CM21B

Case Size	A	B	D ◇	DD	E	F	F ₁	G	H (4) Holes	D ₁	DD ₁	QE	QP	XG
CM12B	6	8	2-7/16	3-15/16	2-1/2	4	3	1/2	13/32	2-7/16	3-15/16	3-1/16	3-5/32	1-1/16
CM16B	7-3/4	10	2-15/16	4-15/16	3-1/4	5-1/2	3-1/2	5/8	13/32	2-7/16	4-7/16	3-9/16	3-11/16	1-1/16
CM21B	9-1/4	12-1/4	4-1/16	6-11/16	4	7	4	3/4	17/32	2-11/16	5-5/16	4-5/8	4-7/16	1-15/16

Case Size	ZE	ZF	ZF ₁	ZH ⊕		Output Shaft			XS
						U ≤	V ‡	Key	
CM12B	15/16	2-11/16	1-11/16	3/8-16 TAP	3/4 DP.	7/8	2	3/16 x 3/16 x 1-1/4	2-5/8
CM16B	15/16	4-1/4	2-1/4	3/8-16 TAP	3/4 DP.	1-1/8	2-1/2	1/4 x 1/4 x 1-3/4	2-7/8
CM21B	1-1/8	4-25/32	1-23/32	1/2-13 TAP	13/16 DP.	1-1/2	3-1/4	3/8 x 3/8 x 2-1/2	4

Case Size	For Motor Frames:											
	48Y/56C											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ◆	ZM	ZN
								U *	Keyway ✦			
CM12B	30	8-5/16	8-7/16	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	7-7/8	4-23/32
CM16B	61	9-5/16	9-11/16	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	9-13/16	6-1/8
CM21B	124	11-15/16	12-5/8	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	12-3/16	7-3/4

Case Size	For Motor Frames:											
	140TC/160ATC											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ■	ZM	ZN
								U *	Keyway ★			
CM12B	30	8-5/16	8-7/16	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	7-7/8	4-23/32
CM16B	61	9-5/16	9-11/16	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	9-13/16	6-1/8
CM21B	124	11-15/16	12-5/8	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	12-3/16	7-3/4

Case Size	For Motor Frames:											
	180TC/180ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ■	ZM	ZN
								U *	Keyway ▲			
CM12B	...	...	...	...	...	...	...	...	.....	...	...	...
CM16B	...	...	...	...	...	...	...	...	.....	...	...	...
CM21B	142	13-1/8	12-5/8	7-1/4	9	17/32	4-5/32	1-1/8	1/4 x 1/8	8-1/2	13-1/16	8-7/16

◇ "D" varies + 0, -1/32.

‡ Usable shaft length.

< +.0000 -.0005.

⊕ 8 holes (4 top, 4 bottom)

▲ At highest point.

§ At widest point.

✦ Using 3/16 x 3/16 x 1-1/4 key.

* +.001 +.002.

◆ +.001 +.003.

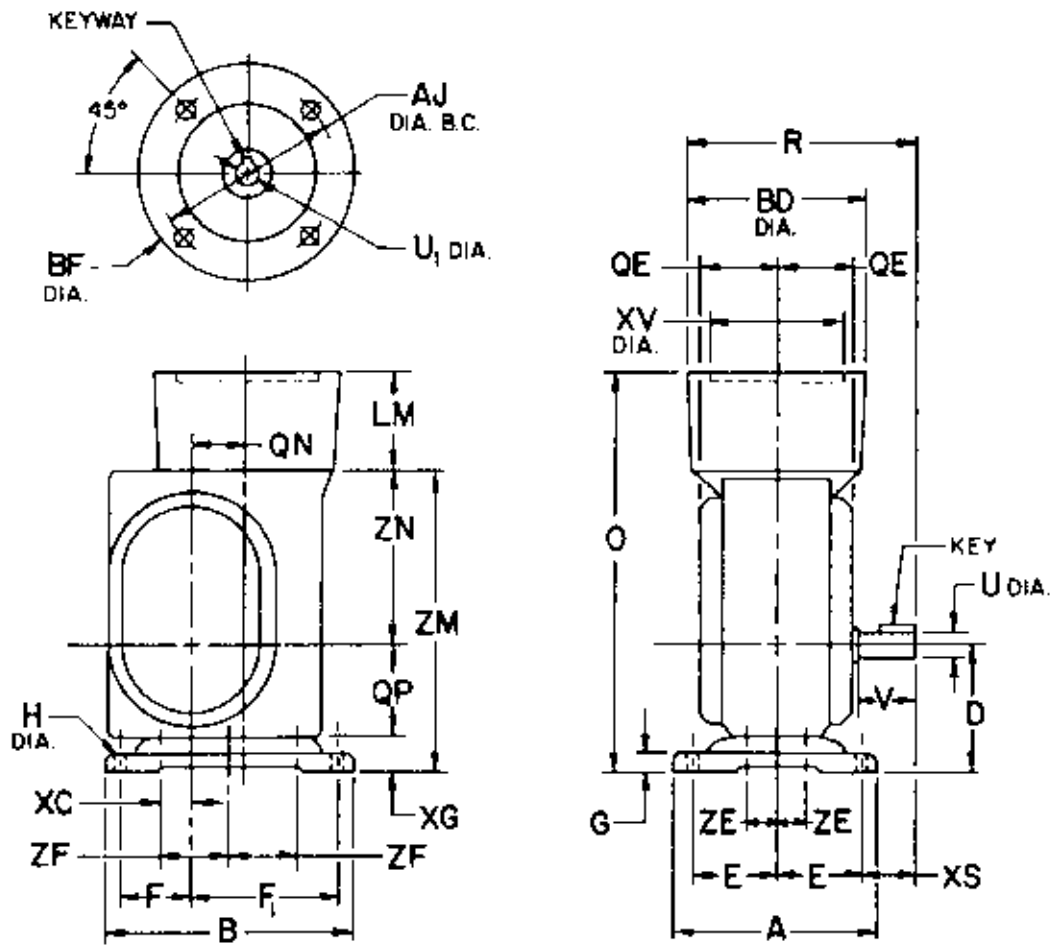
■ +.000 +.002.

★ Using 1/4 x 1/4 x 1-3/4 key.

♣ Using 5/16 x 5/16 x 2-1/4 key.

XL Right Angle Reducers - J Mount

SIZES CM12J - CM40J



XL Right Angle Reducers - J Mount

SIZES CM12J - CM40J

Case Size	A	B	D ◇	E	F	F ₁	H	H (4) Holes	QE	QN	QP	XC	XG
CM12J	5-1/2	6-7/8	4-1/8	2-1/4	2-5/16	3-11/16	5/8	13/32	3-1/16	1-1/2	3-1/16	1-1/16	1-1/16
CM16J	8	8	5-17/32	3-1/2	2-7/8	4-1/8	3/4	13/32	3-9/16	2	3-19/32	1-5/8	1-15/16
CM21J	9-1/4	12-1/4	6-9/32	4	4-11/16	6-5/16	3/4	17/32	4-5/8	2-5/8	4-11/32	2-7/16	1-15/16
CM28J	9-1/4	12-1/4	7-1/2	4	5-3/16	5-13/16	3/4	17/32	5-7/8	3-1/2	5-9/16	2-15/16	1-15/16
CM40J	15	20-1/2	9-1/2	6-1/4	7-7/8	10-5/8	1-1/4	1-1/16	7-7/16	5	6-1/2	4-1/4	3

Case Size	ZE	ZF	ZH		Output Shaft			XS
					U <	V ‡	Key	
CM12J	15/16	1-3/4	3/8-16 TAP	3/4 DP.	7/8	2	3/16 x 3/16 x 1-1/4	2-7/8
CM16J	15/16	2-3/16	3/8-16 TAP	3/4 DP.	1-1/8	2-1/2	1/4 x 1/4 x 1-3/4	2-5/8
CM21J	1-1/8	3-1/4	1/2-13 TAP	1-3/16 DP.	1-1/2	3-1/4	3/8 x 3/8 x 2-1/2	4
CM28J	1-1/8	3-1/4	1/2-13 TAP	1-3/16 DP.	2-1/8	4-9/16	1/2 x 1/2 x 3-1/2	6-9/16

Case Size	For Motor Frames:											
	56C											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ◆	ZM	ZN
U ✱								Keyway ✱				
CM12J	32	12-1/32	8-7/16	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	8-27/32	4-23/32
CM16J	63	14-27/32	9-11/16	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	11-21/32	6-1/8
CM21J	124	17-7/32	12-5/8	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	14-1/32	7-3/4
CM28J	215	21-5/32	16-7/16	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	17-31/32	10-15/32
CM40J	...	...	...	...	...	...	...	...	...	...	...	...

Case Size	For Motor Frames:											
	140TC/160ATC											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ◆	ZM ●	ZN
								U ✱	Keyway ✱			
CM12J	32	12-1/32	8-7/16	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	8-27/32	4-23/32
CM16J	63	14-27/32	9-11/16	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	11-21/32	6-1/8
CM21J	124	17-7/32	12-5/8	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	14-1/32	7-3/4
CM28J	215	21-5/32	16-7/16	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	17-31/32	10-15/32
CM40J	...	...	...	...	...	...	...	...	...	...	...	...

Case Size	For Motor Frames:											
	180TC/180ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ■	ZM ●	ZN
								U ✱	Keyway ★			
CM12J	...	...	...	...	...	...	...	...	...	...	...	...
CM16J	...	...	...	...	...	...	...	...	...	...	...	...
CM21J	142	18-7/8	12-5/8	7-1/4	9	17/32	4-5/32	1-1/8	1/4 x 1/8	8-1/2	14-23/32	8-7/16
CM28J	228	22-19/32	16-7/16	7-1/4	9	17/32	4-5/32	1-1/8	1/4 x 1/8	8-1/2	18-7/16	10-15/16
CM40J	595	29-21/32	20-3/4	7-1/4	9	17/32	8-15/32	1-1/8	1/4 x 1/8	8-1/2	21-3/16	11-11/16

Case Size	For Motor Frames: 210TC/210ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ■	ZM ●	ZN
								U ✱	Keyway ⬆			
CM28J	238	23-3/32	16-7/16	7-1/4	9	17/32	4-21/32	1-3/8	5/16 x 5/32	8-1/2	18-7/16	10-15/16
CM40J	605	29-21/32	20-3/4	7-1/4	9	17/32	8-15/32	1-3/8	5/16 x 5/32	8-1/2	21-3/16	11-11/16

Case Size	For Motor Frames: 210TC/210ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ	BD	BF (4) Holes	LM	Input Bore		XV ■	ZM ●	ZN
								U ✱	Keyway ♣			
CM28J	...	...	...	...	...	...	...	...	...	...	...	...
CM40J	605	29-21/32	20-3/4	7-1/4	9	17/32	8-15/32	1-5/8	3/8 x 3/16	8-1/2	21-3/16	11-11/16

◇ "D" varies + 0, -1/32.

‡ Usable shaft length.

< +.0000 -.0005.

▲ At highest point.

§ At widest point.

● Includes bolt-on foot.

* +.001 +.002.

◆ +.001 +.003.

■ +.000 +.002.

♣ Using 3/16 x 3/16 x 1-1/4 key.

★ Using 1/4 x 1/4 x 1-3/4 key.

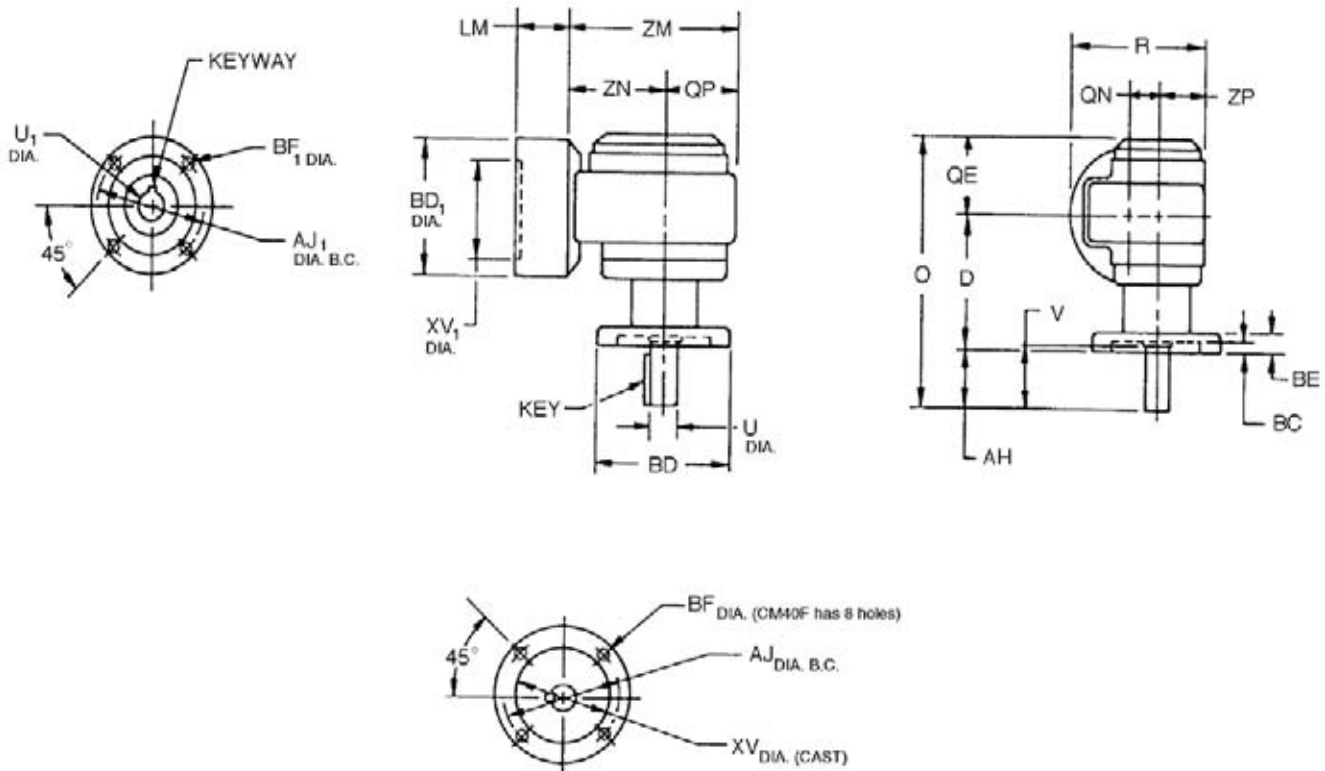
♠ Using 5/16 x 5/16 x 2-1/4 key.

♣ Using 3/8 x 3/8 x 2-3/4 key

+ ATCZ Shaft extrn. must match TC extrn.

XL Right Angle Reducers - Flange Mount

SIZES CM12F - CM40F



XL Right Angle Reducers - Flange Mount

SIZES CM12F - CM40F

Case Size	D	BE	BF* (4) Holes	AH	AJ	BC	BD	QE	QN	QP	XV	ZP	Output Shaft		
													U <	V ‡	Key
CM12F	4-7/8	7/16	13/32	2	4	1/8	5	3-1/16	1-1/2	3-1/8	3	2-7/16	7/8	2-1/8	3/16 x 3/16 x 1-1/4
CM16F	5-1/8	1/2	13/32	2-1/2	6-1/8	1/8	7	3-9/16	2	3-21/32	5-1/4	2-15/16	1-1/8	2-5/8	1/4 x 1/4 x 1-3/4
CM21F	6-7/8	5/8	17/32	3-3/16	8-1/2	1/16	10	4-5/8	2-5/8	4-13/32	6-3/4	4-1/16	1-1/2	3-1/4	3/8 x 3/8 x 2-1/2
CM28F	7-13/16	5/8	17/32	4-1/2	12-1/2	1/16	14	5-7/8	3-1/2	5-11/16	10-5/8	5-7/16	2-1/8	4-9/16	1/2 x 1/2 x 3-1/2
CM40F	10	3/4	17/32	3-5/16	15-1/4	1/8	16-1/2	7-7/16	5	6-11/16	13-1/2	6-5/8	2-5/8	5-1/2	5/8 x 5/8 x 4

Case Size	For Motor Frames:											
	48Y/56C											
	Wt. (Lbs.)	O ▲	R §	AJ ₁	BD ₁	BF ₁ (4) Holes	LM	Input Bore		XV ₁ ◆	ZM	ZN
U ₁ ✱								Keyway ✱				
CM12F	34	10-3/16	7-1/4	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	7-27/32	4-23/32
CM16F	66	11-3/16	8-1/4	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	9-25/32	6-1/8
CM21F	121	14-11/16	10	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	12-5/32	7-3/4
CM28F	226	18-3/16	12-1/4	5-7/8	6-5/8	13/32	3-3/16	5/8	3/16 x 3/32	4-1/2	16-5/32	10-15/32
CM40F	...	...	...	...	...	...	...	...	...	...	...	...

Case Size	For Motor Frames:											
	140TC/160ATC											
	Wt. (Lbs.)	O ▲	R §	AJ ₁	BD ₁	BF ₁ (4) Holes	LM	Input Bore		XV ₁ ◆	ZM	ZN
								U ₁ ✱	Keyway ✱			
CM12F	34	10-3/16	7-1/4	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	7-27/32	4-23/32
CM16F	66	11-3/16	8-1/4	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	9-25/32	6-1/8
CM21F	121	14-11/16	10	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	12-5/32	7-3/4
CM28F	226	18-3/16	12-1/4	5-7/8	6-5/8	13/32	3-3/16	7/8	3/16 x 3/32	4-1/2	16-5/32	10-15/32
CM40F	441	22-1/2	15	6-1/8	7-1/8	1/2	4-1/2	1-1/2	1/2 x 1/2	5	20-1/2	14-1/2

Case Size	For Motor Frames:											
	180TC/180ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ ₁	BD ₁	BF ₁ (4) Holes	LM	Input Bore		XV ₁ ■	ZM	ZN
								U ₁ ✱	Keyway ★			
CM12F	...	...	...	...	...	...	...	...	.....	...	...	...
CM16F	...	...	...	...	...	...	...	...	.....	...	...	...
CM21F	139	14-11/16	11-3/16	7-1/4	9	17/32	4-5/32	1-1/8	1/4 x 1/8	8-1/2	12-27/32	8-7/16
CM28F	239	18-3/16	13-7/16	7-1/4	9	17/32	4-5/32	1-1/8	1/4 x 1/8	8-1/2	16-5/8	10-15/16
CM40F	575	20-3/4	16-23/32	7-1/4	9	17/32	8-15/32	1-1/8	1/4 x 1/8	8-1/2	21-3/16	11-11/16

Case Size	For Motor Frames: 210TC/210ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ ₁	BD ₁	BF ₁ (4) Holes	LM	Input Bore		XV ₁ ■	ZM	ZN
								U ₁ ✱	Keyway ♣			
CM21F	149	14-11/16	11-3/16	7-1/4	9	17/32	4-21/32	1-3/8	5-16 x 5/32	8-1/2	12-27/32	8-7/16
CM28F	249	18-3/16	13-7/16	7-1/4	9	17/32	4-21/32	1-3/8	5-16 x 5/32	8-1/2	16-5/8	10-15/16
CM40F	585	20-3/4	16-23/32	7-1/4	9	17/32	8-15/32	1-3/8	5-16 x 5/32	8-1/2	18-3/8	11-11/16

Case Size	For Motor Frames: 210TC/210ATCZ +											
	Wt. (Lbs.)	O ▲	R §	AJ _i	BD _i	BF ₁ (4) Holes	LM	Input Bore		XV ₁ ■	ZM	ZN
								U _i ✱	Keyway ♣			
CM21F	...	...	...	...	...	...	...	...	.....	...	...	...
CM28F	...	...	...	...	...	...	...	...	.....	...	...	...
CM40F	585	20-3/4	16-23/32	7-1/4	9	17/32	8-15/32	1-5/8	3/8 x 3/16	8-1/2	18-3/8	11-11/16

◇ "D" varies + 0, -1/32.

‡ Usable shaft length.

< +.0000 -.0005.

* CM40F has (8) holes

▲ At highest point.

§ At widest point.

+ ATCZ Shaft extn. must match TC extn.

✱ +.001 +.002.

◆ +.001 +.003.

■ +.000 +.002.

♣ Using 3/16 x 3/16 x 1-1/4 key.

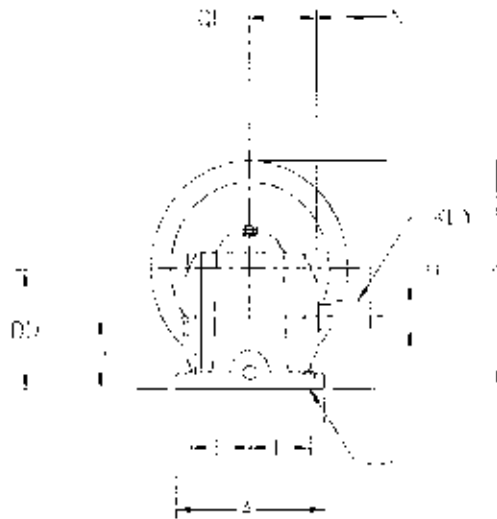
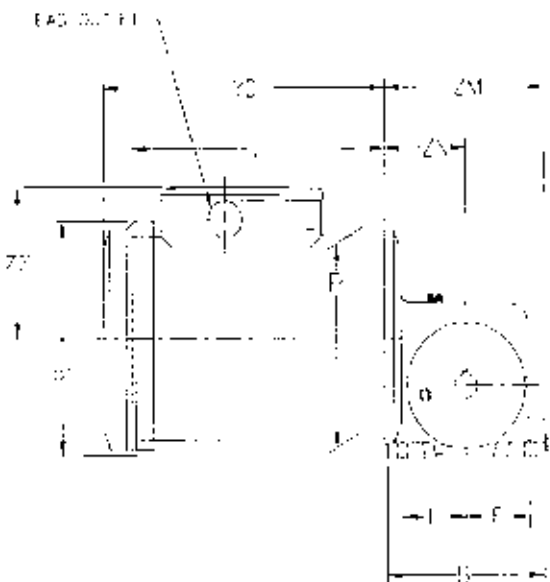
★ Using 1/4 x 1/4 x 1-3/4 key.

♣ Using 5/16 x 5/16 x 2-1/4 key.

♣ Using 3/8 x 3/8 x 2-3/4 key

XL Right Angle Gearmotors

SIZES WG12A - WG40A



Gear Case	A	B	D	Dd	E	F	H	N	U		Key		Qe
									Min.	Max.	Sq.	Lgth.	
WG12A	5.00	5.25	2.25	3.75	2.00	2.13	11/32	1.81	.749	.75	.1875	1.00	2.25
WG16A	5.50	6.88	2.50	4.50	2.25	3.00	13/32	2.06	.874	.875	.1875	1.25	2.50
WG21A	8.00	8.00	3.38	6.00	3.50	3.50	13/32	2.56	1.124	1.125	.250	1.75	3.44
WG28A	9.50	9.75	4.00	7.50	4.00	4.00	17/32	3.38	1.499	1.500	.375	2.50	4.50
WG40A	12.75	13.75	5.75	10.75	5.50	6.00	29/32	4.88	2.124	2.125	.500	3.75	5.75

Gear Case	O				ZM				ZN			
	56/140	180T	210T	250T	56/140	180T	210T	250T	56/140	180T	210T	250T
WG12A	7.06	...	...	...	5.34	...	...	...	2.72	...	...	...
WG16A	7.81	...	...	...	6.94	...	...	...	3.50	...	...	...
WG21A	9.31	10.62	11.25	...	8.25	8.59	8.59	...	4.25	4.59	4.59	...
WG28A	10.81	12.12	12.75	14.13	10.59	10.85	10.85	10.85	5.71	5.97	5.97	5.97
WG40A	...	15.38	16	17.38	...	12.69	12.69	12.69	...	5.81	5.81	5.81

Motor Frame			L ★	YD ★	P	P'	ZZ
Open	TENV	TEFC					
DB56	FB56	-	8.33	-	6.50	-	-
DB56	FC56	-	8.33	-	6.50	-	-
-	-	FC56	-	9.54	6.50	7.28	4.81
-	-	FD56	-	10.6	6.50	7.28	4.81
-	-	FC140T	-	9.54	6.50	7.28	4.81
-	-	FD140T	-	10.6	6.50	7.28	4.81

Motor Frame	Open/TENV L*	TEFC Only YD*	P	TEFC Only P'
182T	13.13	15.25	9.25	9
184T				
213T	15.63	17.75	10.5	10.5
215T				
254T	19.13	21.13	13.25	13.25
256T				

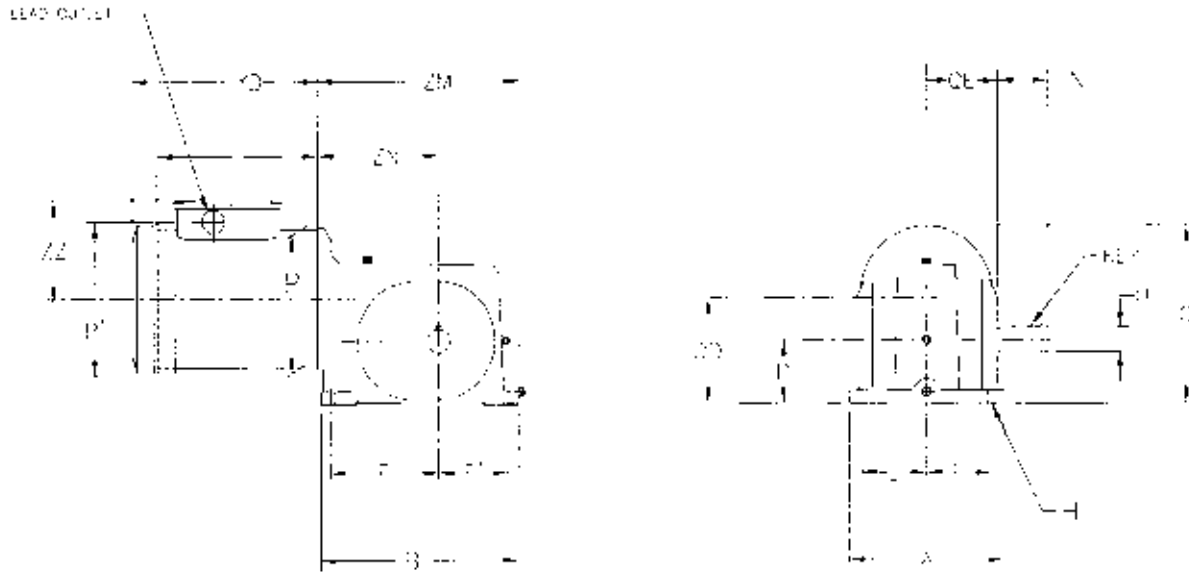
NOTE: Modified 180 Frames are longer than shown.
56/140T does not apply to WG40A.
180T/210T/250T does not apply to WG12A or WG16A.

* For WG40 only, add 8.25, to L and YD Dimensions.

★ Motor length is subject to change. Please request dimension sheet if this is a critical dimension.

XL Right Angle Gearmotors

SIZES CG12A - CG40A



Gear Case	A	B	D	DD	E	F	F'	H	N	U		Key	
										MIN.	MAX.	SQ.	LGTH.
CG12A	6.00	8.00	2.50	4.00	2.50	4.00	3.00	11/32	2.06	0.874	0.875	0.188	1.25
CG16A	7.75	10.00	3.00	5.00	3.25	5.50	3.50	13/32	2.56	1.124	1.125	0.250	1.75
CG21A	9.25	12.25	4.00	6.62	4.00	7.00	4.00	17/32	3.38	1.499	1.500	0.375	2.50
CG28A	11.12	16.12	5.12	8.62	4.50	9.06	4.94	21/32	4.69	2.124	2.125	0.500	3.50
CG40A	15.00	20.88	6.50	11.50	6.25	11.88	6.62	1-1/32	5.88	2.624	2.625	0.625	4.00

Gear Case	O				ZM				ZN				QE
	56/140	180T	210T	250T	56/140	180T	210T	250T	56/140	180T	210T	250T	
CG12A	7.31	...	...	...	8.22	...	...	...	4.72	...	...	...	3.06
CG16A	8.31	...	...	...	10.13	...	...	...	6.13	...	...	...	3.56
CG21A	9.94	11.25	11.88	...	12.38	12.85	12.85	...	7.75	8.22	8.22	...	4.63
CG28A	11.94	13.25	13.88	15.25	16.94	16.72	16.72	16.72	10.47	10.72	10.72	10.72	5.88
CG40A	...	16.13	16.75	18.13	...	19.5	19.5	19.5	...	11.69	11.69	11.69	7.44

Motor Frame			L ★	YD ★	P	P'	ZZ
Open	TENV	TEFC					
DB56	FB56	-	8.33	-	6.5	-	-
DB56	FC56	-	8.33	-	6.5	-	-
-	-	FC56	-	9.54	6.5	7.28	4.81
-	-	FD56	-	10.6	6.5	7.28	4.81
-	-	FC140T	-	9.54	6.5	7.28	4.81
-	-	FD140T	-	10.6	6.5	7.28	4.81

Motor Frame	Open/TENV L*	TEFC Only YD*	P	TEFC Only P'
182T	13.13	15.25	9.25	9
184T				
213T	15.63	17.75	10.5	10.5
215T				
254T	19.13	21.13	13.25	13.25
256T				

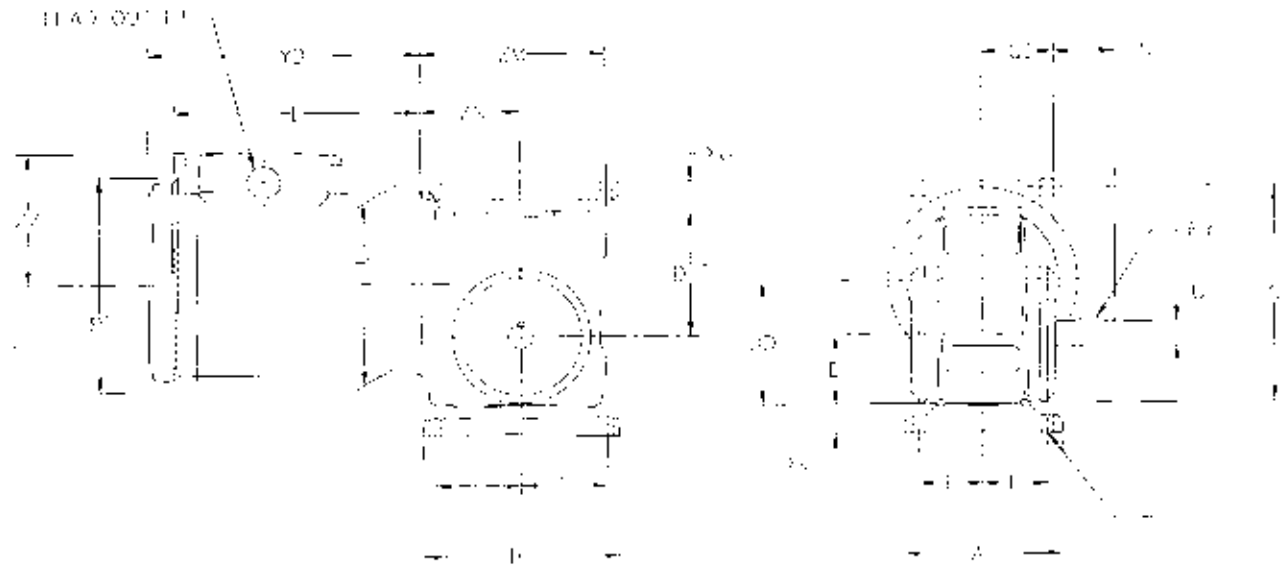
NOTE: Modified 180 Frames are longer than shown.
 56/140T does not apply to WG40A.
 180T/210T/250T does not apply to WG12A or WG16A.

* For WG40 only, add 8.25, to L and YD Dimensions.

★ Motor length is subject to change. Please request dimension sheet if this is a critical dimension.

XL Right Angle Gearmotors - Multimount

SIZES WG12B - WG28B



Gear Case	A	B	D	DD	DD'	E	F	H	N	U		Key		QE	XG
										MIN.	MAX.	SQ.	LGTH.		
WG12B	5.00	5.25	2.18	3.68	3.93	2.00	2.13	11/32	1.81	0.749	0.750	0.188	1.00	2.25	1.06
WG16B	5.50	6.88	2.43	4.43	4.43	2.25	3.00	13/32	2.06	0.874	0.875	0.188	1.25	2.50	1.06
WG21B	8.00	8.00	3.30	5.93	5.30	3.50	3.50	13/32	2.56	1.124	1.125	0.250	1.75	3.44	1.94
WG28B	9.25	9.25	4.05	7.55	6.18	4.00	4.00	17/32	3.38	1.499	1.500	0.375	2.50	4.50	1.94

Gear Case	0				ZM				ZN			
	56/140	180T	210T	250T	56/140	180T	210T	250T	56/140	180T	210T	250T
WG12B	7.00	...	...	...	5.00	...	...	...	2.72	...	...	...
WG16B	7.75	...	...	...	6.47	...	...	...	3.50	...	...	...
WG21B	8.61	10.56	10.56	...	7.91	8.25	8.25	...	4.25	4.59	4.59	...
WG28B	10.87	10.81	12.81	14.18	10.40	10.66	10.66	10.66	5.71	5.97	5.97	5.97

Motor Frame			L ★	YD ★	P	P'	ZZ
Open	TENV	TEFC					
DB56	FB56	-	8.33	-	6.50	-	-
DB56	FC56	-	8.33	-	6.50	-	-
-	-	FC56	-	9.54	6.50	7.28	4.81
-	-	FD56	-	10.60	6.50	7.28	4.81
-	-	FC140T	-	9.54	6.50	7.28	4.81
-	-	FD140T	-	10.60	6.50	7.28	4.81

Motor Frame	Open/TENV L*	TEFC Only YD*	P	TEFC Only P'
182T	13.13	15.25	9.25	9
184T				
213T				
215T	15.63	17.75	10.50	10.50
254T				
256T				
256T	19.13	21.13	13.25	13.25

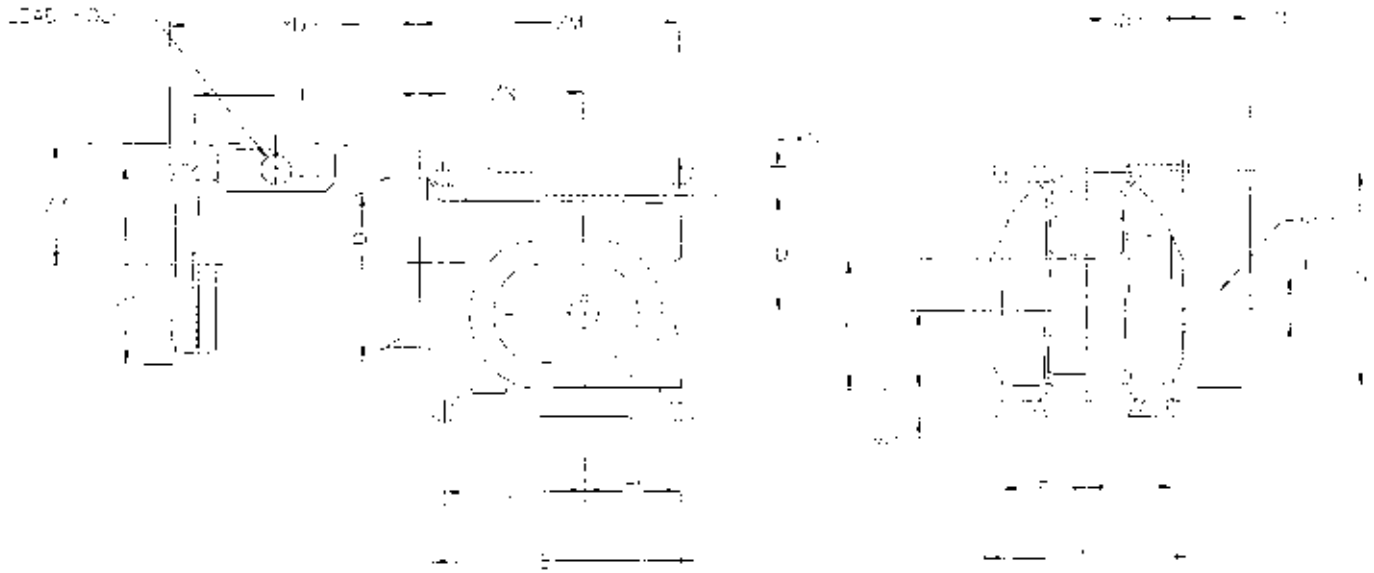
NOTE: Modified 180 Frames are longer than shown.

180T/210T/250T does not apply to WG12B or WG16B.

★ Motor length is subject to change. Please request dimension sheet if this is a critical dimension.

XL Right Angle Gearmotors - Multimount

SIZES CG12B - CG21B



Gear Case	A	B	D	DD	DD'	E	F	F'	H	N	U		Key		QE
											MIN.	MAX.	SQ.	LGTH.	
CG12B	6.00	8.00	2.43	3.93	3.93	2.00	4.00	3.00	13/32	2.06	0.874	0.875	0.188	1.25	3.06
CG16B	7.75	10.00	2.93	4.93	4.43	3.25	5.50	3.50	13/32	2.56	1.124	1.125	0.250	1.75	3.56
CG21B	9.25	12.25	4.05	6.68	5.30	4.00	7.00	4.00	17/32	3.38	1.499	1.500	0.375	2.50	4.63

Gear Case	XG	O			ZM			ZN		
		56/140	180T	210T	56/140	180T	210T	56/140	180T	210T
CG12B	1.06	7.25	...	...	7.88	...	...	4.72	...	...
CG16B	1.06	8.25	...	...	9.81	...	...	6.13	...	...
CG21B	1.94	10	11.31	11.93	12.19	12.66	12.66	7.75	8.22	8.22

Motor Frame			L ★	YD ★	P	P'	ZZ
Open	TENV	TEFC					
DB56	FB56	-	8.33	-	6.50	-	-
DB56	FC56	-	8.33	-	6.50	-	-
-	-	FC56	-	9.54	6.50	7.28	4.81
-	-	FD56	-	10.60	6.50	7.28	4.81
-	-	FC140T	-	9.54	6.50	7.28	4.81
-	-	FD140T	-	10.60	6.50	7.28	4.81

Motor Frame	Open/TENV L*	TEFC Only YD*	P	TEFC Only P'
182T 184T	13.13	15.25	9.25	9
213T 215T	15.63	17.75	10.50	10.50

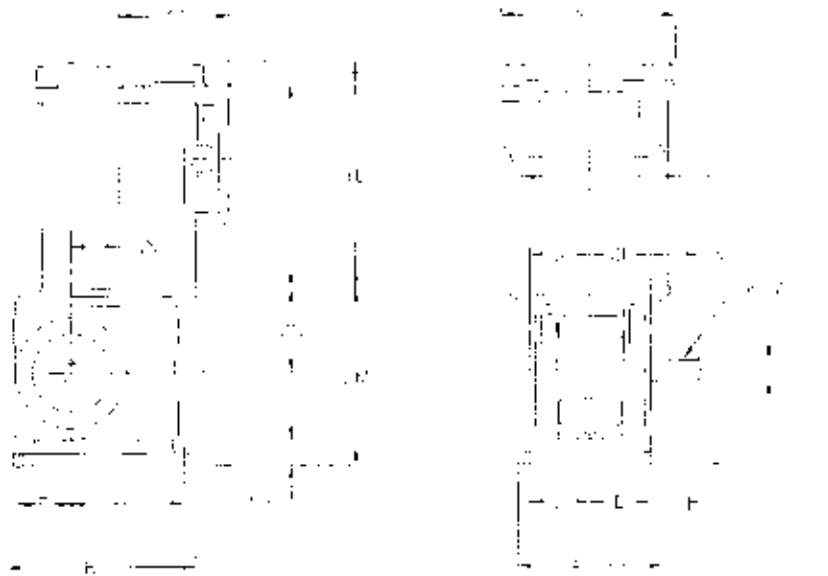
NOTE: Modified 180 Frames are longer than shown.

180T/210T/250T does not apply to WG12B or WG16B.

★ Motor length is subject to change. Please request dimension sheet if this is a critical dimension.

XL Right Angle Gearmotors - J Mount

SIZES WG12J - WG28J



Gear Case	A	B	D	E	F	F'	H	N	U		Key	
									MIN.	MAX.	SQ.	LGTH.
WG12J	5.50	6.88	3.24	2.25	4.00	2.00	13/32	1.81	0.749	0.750	0.188	1.00
WG16J	6.00	8.00	3.92	2.50	4.75	2.25	13/32	2.06	0.874	0.875	0.188	1.25
WG21J	9.25	12.25	5.49	4.00	6.31	4.69	17/32	2.56	1.124	1.125	0.250	1.75
WG28J	9.25	12.25	6.49	4.00	6.63	4.37	17/32	3.38	1.499	1.500	0.375	2.50
WG40J	15.00	20.50	9.99	6.25	10.63	7.87	1-1/16	4.88	2.124	2.125	0.500	3.75

Gear Case	QE	QN	XG	ZM				ZN			
				56/140	180T	210T	250T	56/140	180T	210T	250T
WG12J	2.25	1.50	1.06	5.97	...	...	...	2.72	...	...	...
WG16J	2.50	2	1.06	7.42	...	...	...	3.50	...	...	...
WG21J	3.44	2.625	1.94	9.74	10.08	10.08	...	4.25	4.59	4.59	...
WG28J	4.50	3.50	1.94	12.20	12.46	12.46	12.46	5.71	5.97	5.97	5.97
WG40J	5.75	5	3	...	15.80	15.80	15.80	...	5.81	5.81	5.81

Motor Frame			L ★	YD ★	P	P'	ZZ
Open	TENV	TEFC					
DB56	FB56	-	8.33	-	6.50	-	-
DB56	FC56	-	8.33	-	6.50	-	-
-	-	FC56	-	9.54	6.50	7.28	4.81
-	-	FD56	-	10.60	6.50	7.28	4.81
-	-	FC140T	-	9.54	6.50	7.28	4.81
-	-	FD140T	-	10.60	6.50	7.28	4.81

Motor Frame	Open/TENV L*	TEFC Only YD*	P	TEFC Only P'
182T	13.13	15.25	9.25	9
184T				
213T	15.63	17.75	10.50	10.50
215T				
254T	19.13	21.13	13.25	13.25
256T				

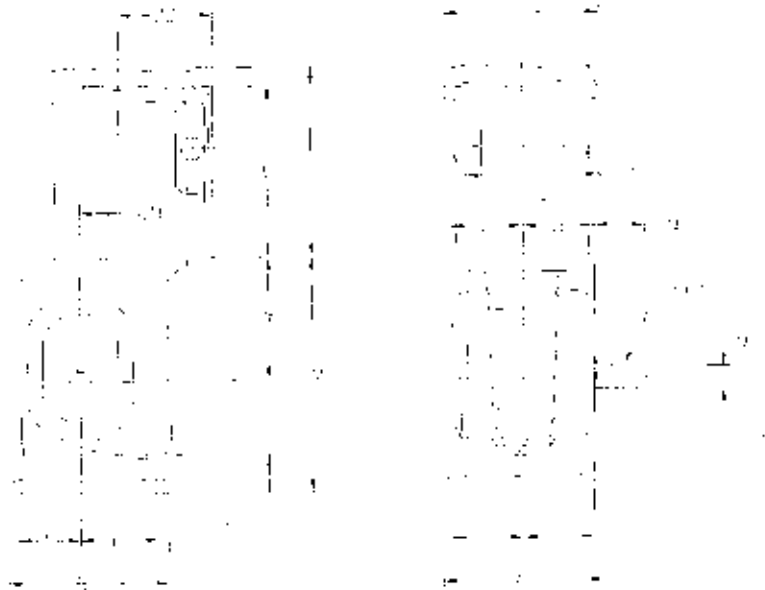
NOTE: Modified 180 Frames are longer than shown.
180T/210T does not apply to W12, W16, C12, or C16.

* For WG40 only, add 8.25, to L and YD Dimensions.

★ Motor length is subject to change. Please request dimension sheet if this is a critical dimension.

XL Right Angle Gearmotors - J Mount

SIZES CG12J - CG28J



Gear Case	A	B	D	E	F	F'	H	N	U		Key	
									MIN.	MAX.	SQ.	LGTH.
CG12J	5.50	6.88	4.11	2.25	2.31	3.69	13/32	2.06	0.874	0.875	0.188	1.25
CG16J	8.00	8.00	5.52	3.50	2.88	4.12	13/32	2.56	1.124	1.125	0.250	1.75
CG21J	9.25	12.25	6.27	4.00	4.69	6.31	17/32	3.38	1.499	1.500	0.375	2.50
CG28J	9.25	12.25	7.49	4.00	5.19	5.81	17/32	4.69	2.124	2.125	0.500	3.50
CG40J	15.00	20.50	9.50	6.25	7.88	10.62	1-1/16	5.88	2.624	2.625	0.625	4.00

Gear Case	QE	QN	XG	ZM				ZN			
				56/140	180T	210T	250T	56/140	180T	210T	250T
CG12J	3.06	1.50	1.06	8.83	...	...	...	4.72	...	...	...
CG16J	3.56	2.00	1.94	11.65	...	...	...	6.13	...	...	...
CG21J	4.63	2.625	1.94	14.02	14.72	14.72	...	7.75	8.44	8.44	...
CG28J	5.88	3.50	1.94	17.96	18.21	18.21	18.21	10.47	10.72	10.72	10.72
CG40J	7.44	5.00	3.00	...	21.19	21.19	21.19	...	11.69	11.69	11.69

Motor Frame			L ★	YD ★	P	P'	ZZ
Open	TENV	TEFC					
DB56	FB56	-	8.33	-	6.50	-	-
DB56	FC56	-	8.33	-	6.50	-	-
-	-	FC56	-	9.54	6.50	7.28	4.81
-	-	FD56	-	10.60	6.50	7.28	4.81
-	-	FC140T	-	9.54	6.50	7.28	4.81
-	-	FD140T	-	10.60	6.50	7.28	4.81

Motor Frame	Open/TENV L*	TEFC Only YD*	P	TEFC Only P'
182T 184T	13.13	15.25	9.25	9
213T 215T	15.63	17.75	10.50	10.50
254T 256T	19.13	21.13	13.25	13.25

NOTE: Modified 180 Frames are longer than shown.

180T/210T does not apply to W12, W16, C12, or C16.

★ Motor length is subject to change. Please request dimension sheet if this is a critical dimension.

* For WG40 only, add 8.25, to L and YD Dimensions.

XL Right Angle Gearmotors Flange Mount SIZES WG12F - WG40F



Gear Case	D	H	AH	U		Key		AJ	BD	QE	QN	ZP
				MIN.	MAX.	SQ.	LGTH.					
WG12F	3.75	5/16	1.81	0.749	0.750	0.188	1.00	3.125	4.00	2.25	1.50	2.19
WG16F	4.63	13/32	2.06	0.874	0.875	0.188	1.25	4.00	5.00	2.50	2.00	2.44
WG21F	5.88	13/32	2.44	1.124	1.125	0.250	1.75	6.125	7.00	3.44	2.625	3.31
WG28F	6.88	17/32	3.19	1.499	1.500	0.375	2.50	8.50	10.00	4.50	3.50	4.06
WG40F	7.13	17/32	3.50	2.124	2.125	0.500	3.75	15.25	16.50	5.75	5.00	5.63

Gear Case	O				ZM				ZN			
	56/140	180T	210T	250T	56/140	180T	210T	250T	56/140	180T	210T	250T
WG12F	7.06	...	...	...	5.00	...	...	...	2.72	...	...	...
WG16F	7.94	...	...	...	6.47	...	...	...	3.50	...	...	...
WG21F	9.31	10.50	11.13	...	7.91	8.25	8.25	...	4.25	4.59	4.59	...
WG28F	11.38	11.50	12.13	13.50	10.40	10.66	10.66	10.66	5.71	5.97	5.97	5.97
WG40F	...	11.75	12.38	13.75	...	13.00	13.00	13.00	...	5.81	5.81	5.81

Motor Frame			L ★	YD ★	P	P'	ZZ
Open	TENV	TEFC					
DB56	FB56	-	8.33	-	6.50	-	-
DB56	FC56	-	8.33	-	6.50	-	-
-	-	FC56	-	9.54	6.50	7.28	4.81
-	-	FD56	-	10.60	6.50	7.28	4.81
-	-	FC140T	-	9.54	6.50	7.28	4.81
-	-	FD140T	-	10.60	6.50	7.28	4.81

Motor Frame	Open/TENV L*	TEFC Only YD*	P	TEFC Only P'
182T	13.13	15.25	9.25	9
184T				
213T	15.63	17.75	10.50	10.50
215T				
254T	19.13	21.13	13.25	13.25
256T				

NOTE: Modified 180 Frames are longer than shown.
180T/210T does not apply to W12, W16, C12, or C16.

* For WG40 only, add 8.25, to L and YD Dimensions.

★ Motor length is subject to change. Please request dimension sheet if this is a critical dimension.

XL Right Angle Gearmotors

Flange Mount

SIZES CG12F - CG40F



Gear Case	D	H	AH	U		Key		AJ	BD	QE	QN	ZP
				MIN.	MAX.	SQ.	LGTH.					
CG12F	4.88	13/32	2.00	0.874	0.875	0.188	1.25	4.00	5.00	3.06	1.50	2.44
CG16F	5.13	13/32	2.50	1.124	1.125	0.250	1.75	6.125	7.00	3.56	2.00	2.94
CG21F	6.88	17/32	3.19	1.499	1.500	0.375	2.50	8.50	10.00	4.63	2.625	4.06
CG28F	7.81	17/32	4.50	2.124	2.125	0.500	3.50	12.50	14.00	5.88	3.50	5.25
CG40F	10.00	17/32	3.31	2.624	2.625	0.625	4.00	15.25	16.50	7.44	5.00	6.61

Gear Case	O				ZM				ZN			
	56/140	180T	210T	250T	56/140	180T	210T	250T	56/140	180T	210T	250T
CG12F	8.19	...	...	...	7.88	...	...	...	4.72	...	...	...
CG16F	8.69	...	...	...	9.81	...	...	...	6.13	...	...	...
CG21F	11.51	11.51	12.13	...	12.19	12.66	12.66	...	7.75	8.22	8.22	...
CG28F	12.50	12.44	13.06	14.44	16.16	16.41	16.41	16.41	10.47	10.72	10.72	10.72
CG40F	...	14.63	15.25	16.63	...	18.38	18.38	18.38	...	11.69	11.69	11.69

Motor Frame			L ★	YD ★	P	P'	ZZ
Open	TENV	TEFC					
DB56	FB56	-	8.33	-	6.50	-	-
DB56	FC56	-	8.33	-	6.50	-	-
-	-	FC56	-	9.54	6.50	7.28	4.81
-	-	FD56	-	10.60	6.50	7.28	4.81
-	-	FC140T	-	9.54	6.50	7.28	4.81
-	-	FD140T	-	10.60	6.50	7.28	4.81

Motor Frame	Open/TENV L*	TEFC Only YD*	P	TEFC Only P'
182T 184T	13.13	15.25	9.25	9
213T 215T	15.63	17.75	10.50	10.50
254T 256T	19.13	21.13	13.25	13.25

NOTE: Modified 180 Frames are longer than shown.
180T/210T does not apply to W12, W16, C12, or C16.

* For WG40 only, add 8.25, to L and YD Dimensions.

★ Motor length is subject to change. Please request dimension sheet if this is a critical dimension.

XL Parallel - Size 16

SINGLE REDUCTION - C-FACE

AGMA Nominal Ratio	Exact Ratio	Rating Data	Input RPM				Frame Size	Model Number
			2500	1750	1160	600		
2.25	2.22	Output RPM	1111	778	516	267	56C	M60425
		Max Input HP	6.54	4.77	3.31	1.81		
		Output Torque (in-lb)	363	378	396	418	140TC	M60428
		Max. Output HP	6.40	4.67	3.24	1.77		
		OHL Output Shaft	239	229	210	194		
2.75	2.78	Output RPM	909	636	422	218	56C	M94866
		Max Input HP	5.10	3.72	2.59	1.40		
		Output Torque (in-lb)	347	361	379	396	140TC	
		Max. Output HP	5.00	3.64	2.54	1.37		
		OHL Output Shaft	253	245	229	217		
3.37	3.35	Output RPM	742	519	344	178	56C	M60427
		Max Input HP	4.03	3.00	2.04	1.11		
		Output Torque (in-lb)	336	351	366	386	140TC	M60430
		Max. Output HP	3.95	2.89	2.00	1.09		
		OHL Output Shaft	260	252	246	228		
4.13	4.12	Output RPM	605	424	281	145	56C	M94513
		Max Input HP	3.06	2.23	1.54	0.84		
		Output Torque (in-lb)	313	324	339	356	140TC	
		Max. Output HP	3.00	2.18	1.51	0.82		
		OHL Output Shaft	269	264	259	250		
5.06	5.21	Output RPM	494	346	229	119	56C	M94842
		Max Input HP	2.15	1.57	1.08	0.58		
		Output Torque (in-lb)	269	281	292	302	140TC	
		Max. Output HP	2.11	1.54	1.06	0.57		
		OHL Output Shaft	285	282	278	273		
6.20	6.25	Output RPM	403	282	187	97	56C	M94662
		Max Input HP	1.61	1.17	0.80	0.43		
		Output Torque (in-lb)	247	257	264	277	140TC	
		Max. Output HP	1.58	1.15	0.78	0.42		
		OHL Output Shaft	292	288	288	283		

XL Parallel - Size 16

DOUBLE REDUCTION - C-FACE

AGMA Nominal Ratio	Exact Ratio	Rating Data	Input RPM				Frame Size	Model Number
			2500	1750	1160	600		
5.06	5.06	Output RPM	494	346	229	119	56C	M61189
		Max Input HP	6.51	4.65	3.19	1.72	140TC	M61191
		Output Torque (in-lb)	797	813	843	874		
		Max. Output HP	6.25	4.46	3.06	1.65		
		OHL Output Shaft	542	619	718	908		
6.20	6.22	Output RPM	403	282	187	97	56C	M61190
		Max Input HP	5.35	3.88	2.66	1.43	140TC	M61192
		Output Torque (in-lb)	805	835	865	901		
		Max. Output HP	5.14	3.72	2.55	1.37		
		OHL Output Shaft	586	666	772	976		
7.60	7.35	Output RPM	329	230	153	79	56C	M60431
		Max Input HP	5.81	4.52	3.37	1.79	140TC	M60436
		Output Torque (in-lb)	1068	1187	1335	1371		
		Max. Output HP	5.59	4.34	3.24	1.72		
		OHL Output Shaft	444	495	562	738		
9.30	9.04	Output RPM	269	188	125	65	56C	M94871
		Max Input HP	5.00	3.89	2.75	1.50	140TC	
		Output Torque (in-lb)	1123	1250	1333	1369		
		Max. Output HP	4.79	3.73	2.64	1.40		
		OHL Output Shaft	475	528	614	803		
11.40	11.32	Output RPM	219	154	102	53	56C	M94852
		Max Input HP	4.23	3.29	2.26	1.22	140TC	
		Output Torque (in-lb)	1167	1296	1343	1402		
		Max. Output HP	4.06	3.16	2.17	1.17		
		OHL Output Shaft	510	568	669	865		
14.00	13.62	Output RPM	179	125	83	43	56C	M60433
		Max Input HP	3.70	2.75	1.87	1.02	140TC	M60439
		Output Torque (in-lb)	1253	1331	1365	1439		
		Max. Output HP	3.55	2.64	1.80	0.98		
		OHL Output Shaft	540	615	725	930		
17.10	18.05	Output RPM	146	102	68	35	56C	M94822
		Max Input HP	2.74	2.00	1.37	0.74	140TC	
		Output Torque (in-lb)	1134	1182	1221	1276		
		Max. Output HP	2.63	1.92	1.31	0.71		
		OHL Output Shaft	615	702	817	1042		
20.90	21.50	Output RPM	120	84	56	29	56C	M60434
		Max Input HP	2.26	1.58	1.05	0.54	140TC	M60440
		Output Torque (in-lb)	1143	1141	1144	1140		
		Max. Output HP	2.17	1.52	1.09	0.52		
		OHL Output Shaft	672	774	906	1156		
25.60	25.27	Output RPM	98	68	45	23	56C	M94516
		Max Input HP	1.93	1.36	0.90	0.46	140TC	
		Output Torque (in-lb)	1195	1203	1199	1184		
		Max. Output HP	1.85	1.31	0.86	0.44		
		OHL Output Shaft	718	825	967	1239		
31.40	30.29	Output RPM	80	56	37	19	56C	M60435
		Max Input HP	1.61	1.13	0.76	0.39	140TC	M60441
		Output Torque (in-lb)	1223	1226	1236	1228		
		Max. Output HP	1.54	1.08	0.73	0.37		
		OHL Output Shaft	773	888	1166	1320		

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TRIPLE REDUCTION - C-FACE

AGMA Nominal Ratio	Exact Ratio	Rating Data	Input RPM				Frame Size	Model Number
			2500	1750	1160	600		
20.90	20.55	Output RPM	122	85	56	29	56C	M61193
		Max Input HP	5.57	3.97	2.75	1.49	140TC	M61196
		Output Torque (in-lb)	2705	2767	2909	3044		
		Max. Output HP	5.24	3.73	2.59	1.40		
		OHL Output Shaft	1422	1627	1883	1940		
25.60	25.28	Output RPM	97.7	68	45	23	56C	M61194
		Max Input HP	4.57	3.30	2.24	1.21	140TC	M61197
		Output Torque (in-lb)	2735	2833	2885	2987		
		Max. Output HP	4.30	3.10	2.11	1.14		
		OHL Output Shaft	1539	1751	1965	1949		
31.40	31.65	Output RPM	79.6	56	37	19	56C	M61195
		Max Input HP	3.69	2.70	1.84	0.97	140TC	M61198
		Output Torque (in-lb)	2767	2908	2946	3024		
		Max. Output HP	3.47	2.54	1.73	0.91		
		OHL Output Shaft	1674	1896	1956	1943		
38.50	38.76	Output RPM	64.9	45	30	16	56C	M94824
		Max Input HP	3.80	2.65	1.76	0.92	140TC	
		Output Torque (in-lb)	3466	3453	3459	3481		
		Max. Output HP	3.57	2.49	1.65	0.86		
		OHL Output Shaft	1238	1451	1722	1881		
47.10	45.97	Output RPM	53.1	37	25	12.7	56C	M60442
		Max Input HP	3.21	2.25	1.50	0.77	140TC	M60448
		Output Torque (in-lb)	3581	3586	3607	3580		
		Max. Output HP	3.02	2.12	1.41	0.72		
		OHL Output Shaft	1334	1557	1837	1814		
57.70	59.13	Output RPM	43.4	30	20	10.4	56C	M94900
		Max Input HP	2.50	1.74	1.15	0.60	140TC	
		Output Torque (in-lb)	3417	3398	3388	3440		
		Max. Output HP	2.35	1.64	1.08	0.57		
		OHL Output Shaft	1488	1729	1881	1879		
70.60	68.03	Output RPM	35.4	25	16.4	8.5	56C	M60444
		Max Input HP	2.16	1.51	1.01	0.52	140TC	M60450
		Output Torque (in-lb)	3612	3608	3640	3630		
		Max. Output HP	2.03	1.42	0.95	0.49		
		OHL Output Shaft	1584	1829	1811	1812		
86.50	86.14	Output RPM	28.9	20	13.4	6.9	56C	M60445
		Max Input HP	1.71	1.20	0.79	0.41	140TC	M60451
		Output Torque (in-lb)	3504	3513	3493	3466		
		Max. Output HP	1.61	1.13	0.74	0.38		
		OHL Output Shaft	1743	1837	1868	1867		
105.90	102.66	Output RPM	23.6	16.5	11.0	5.7	56C	M60446
		Max Input HP	1.50	1.02	0.68	0.34	140TC	M60452
		Output Torque (in-lb)	3637	3655	3660	3596		
		Max. Output HP	1.36	0.96	0.64	0.32		
		OHL Output Shaft	1800	1798	1798	1845		
129.70	123.05	Output RPM	19.3	13.5	8.9	4.6	56C	M60447
		Max Input HP	1.21	0.84	0.56	0.29	140TC	M60453
		Output Torque (in-lb)	3718	3700	3721	3725		
		Max. Output HP	1.14	0.79	0.53	0.27		
		OHL Output Shaft	1779	1789	1789	1771		

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SINGLE REDUCTION - C-FACE

AGMA Nominal Ratio	Exact Ratio	Rating Data	Input RPM				Frame Size	Model Number
			2500	1750	1160	600		
2.25	2.30	Output RPM	1111	778	516	267	140TC	M60460
		Max Input HP	10.30	8.19	6.20	3.45	180TC	M60464
		Output Torque (in-lb)	572	650	740	796		
		Max. Output HP	10.09	8.03	6.07	3.38		
		OHL Output Shaft	500	552	623	728	210TC	M60454
2.75	2.81	Output RPM	909	636	422	218	140TC	M60461
		Max Input HP	9.07	7.05	5.00	2.72	180TC	M60465
		Output Torque (in-lb)	616	683	712	768		
		Max. Output HP	8.89	6.90	4.77	2.66		
		OHL Output Shaft	536	596	686	736	210TC	M60455
3.37	3.50	Output RPM	742	519	344	178	140TC	M60462
		Max Input HP	7.60	5.33	3.71	2.06	180TC	M60466
		Output Torque (in-lb)	633	635	665	715		
		Max. Output HP	7.45	5.23	3.64	2.02		
		OHL Output Shaft	577	653	745	750	210TC	M60456
4.13	4.21	Output RPM	605	424	281	145	140TC	M60463
		Max Input HP	5.86	4.10	3.00	1.57	180TC	M94828
		Output Torque (in-lb)	600	600	625	670		
		Max. Output HP	5.75	4.02	2.78	1.54		
		OHL Output Shaft	628	710	768	760	210TC	M60457
5.06	4.82	Output RPM	494	346	229	119	140TC	M94843
		Max Input HP	4.66	3.26	2.26	1.25	180TC	M94844
		Output Torque (in-lb)	583	583	610	650		
		Max. Output HP	4.57	3.20	2.22	1.23		
		OHL Output Shaft	677	762	772	765	210TC	M60458
6.20	6.07	Output RPM	403	282	187	97	140TC	M94813
		Max Input HP	3.33	2.42	1.66	0.90	180TC	M60467
		Output Torque (in-lb)	510	529	548	573		
		Max. Output HP	3.26	2.37	1.63	0.88		
		OHL Output Shaft	738	785	785	779	210TC	M60459

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DOUBLE REDUCTION - C-FACE

AGMA Nominal Ratio	Exact Ratio	Rating Data	Input RPM				Frame Size	Model Number
			2500	1750	1160	600		
5.06	5.11	Output RPM	494	346	229	119	140TC	M60468
		Max Input HP	11.70	9.40	7.30	4.80		
		Output Torque (in-lb)	1443	1625	1920	2440	180TC	M60476
		Max. Output HP	11.20	9.02	7.00	4.61		
		OHL Output Shaft	871	957	1066	1273	210TC	M60484
6.20	6.10	Output RPM	403	282	187	97	140TC	M60469
		Max Input HP	10.70	8.47	6.43	3.96		
		Output Torque (in-lb)	1605	1815	2079	2475	180TC	M94814
		Max. Output HP	10.30	8.13	6.17	3.80		
		OHL Output Shaft	905	1000	1125	1385	210TC	M94815
7.60	7.43	Output RPM	329	230	153	79	140TC	M60470
		Max Input HP	10.70	8.40	5.70	3.10		
		Output Torque (in-lb)	2103	2359	2415	2539	180TC	M94869
		Max. Output HP	10.30	8.06	5.47	2.98		
		OHL Output Shaft	918	1018	1209	1564	210TC	M60485
9.30	9.34	Output RPM	269	188	125	65	140TC	M60471
		Max Input HP	10.00	7.65	5.20	2.75		
		Output Torque (in-lb)	2205	2459	2521	2578	180TC	M94872
		Max. Output HP	9.41	7.34	4.99	2.64		
		OHL Output Shaft	948	1054	1255	1648	210TC	M60486
11.40	11.41	Output RPM	2191	154	102	53	140TC	M60479
		Max Input HP	8.60	6.32	4.28	2.24		
		Output Torque (in-lb)	2372	2490	2544	2574	180TC	M94853
		Max. Output HP	8.26	6.07	4.11	2.15		
		OHL Output Shaft	1000	1151	1367	1791	210TC	M60487
14.00	14.22	Output RPM	179	125	83	43	140TC	M60472
		Max Input HP	7.24	5.10	3.52	1.87		
		Output Torque (in-lb)	2452	2468	2569	2639	180TC	M60480
		Max. Output HP	6.95	4.90	3.38	1.80		
		OHL Output Shaft	1080	1267	1486	1929	210TC	M60488
17.10	17.11	Output RPM	146	102	68	35	140TC	M60473
		Max Input HP	5.86	4.10	3.00	1.53		
		Output Torque (in-lb)	2424	2423	2532	2637	180TC	M94831
		Max. Output HP	5.63	3.94	2.73	1.47		
		OHL Output Shaft	1192	1394	1626	2089	210TC	M60489
20.90	22.02	Output RPM	120	84	56	29	140TC	M60474
		Max Input HP	4.08	3.00	2.00	1.02		
		Output Torque (in-lb)	2063	2102	2136	2149	180TC	M60481
		Max. Output HP	3.92	2.79	1.88	0.98		
		OHL Output Shaft	1404	1607	1873	2385	210TC	M60490
25.60	25.23	Output RPM	98	68	45	23	140TC	M94517
		Max Input HP	3.37	2.40	1.61	0.84		
		Output Torque (in-lb)	2087	2123	2149	2160	180TC	M60482
		Max. Output HP	3.24	2.30	1.55	0.80		
		OHL Output Shaft	1517	1735	2022	2484	210TC	M60491
31.40	31.76	Output RPM	80	56	37	19	140TC	M60475
		Max Input HP	2.75	2.00	1.29	0.67		
		Output Torque (in-lb)	2089	2105	2112	2130	180TC	M60483
		Max. Output HP	2.64	1.86	1.24	0.65		
		OHL Output Shaft	1642	1878	2187	2499	210TC	M60492

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TRIPLE REDUCTION - C-FACE

AGMA Nominal Ratio	Exact Ratio	Rating Data	Input RPM				Frame Size	Model Number
			2500	1750	1160	600		
20.90	20.76	Output RPM	122	85	56	29	140TC	M61209
		Max Input HP	11.70	9.40	7.30	4.08		
		Output Torque (in-lb)	5776	6629	7222	8334	180TC	M61210
		Max. Output HP	11.00	8.84	6.86	3.84		
		OHL Output Shaft	3494	3867	4341	4590	210TC	M61216
25.60	24.78	Output RPM	97.7	68	45	23	140TC	M61211
		Max Input HP	10.70	8.47	6.34	3.48		
		Output Torque (in-lb)	6276	7067	7991	8590	180TC	M61212
		Max. Output HP	10.06	7.96	5.96	8.27		
		OHL Output Shaft	3658	4056	4592	4561	210TC	M61213
31.40	33.01	Output RPM	79.6	56	37	19	140TC	M61199
		Max Input HP	9.97	7.15	4.89	2.68		
		Output Torque (in-lb)	7771	7992	8277	8820	180TC	M61201
		Max. Output HP	9.37	6.72	4.60	2.52		
		OHL Output Shaft	3882	4398	4596	4534	210TC	M61214
38.50	37.96	Output RPM	64.9	45	30	16	140TC	M61100
		Max Input HP	8.50	6.60	5.00	2.71		
		Output Torque (in-lb)	7752	8599	9729	10298	180TC	M94833
		Max. Output HP	7.99	6.20	4.65	2.55		
		OHL Output Shaft	3218	3589	4057	4384	210TC	M61113
47.10	46.34	Output RPM	53.1	37	25	12.7	140TC	M61101
		Max Input HP	7.50	5.74	4.18	2.19		
		Output Torque (in-lb)	8234	9149	10051	10181	180TC	M61107
		Max. Output HP	6.94	5.40	3.93	2.06		
		OHL Output Shaft	3419	3808	4331	4349	210TC	M61114
57.70	57.76	Output RPM	43.4	30	20	10.4	140TC	M94901
		Max Input HP	6.33	5.00	3.42	1.78		
		Output Torque (in-lb)	8652	9607	10074	10137	180TC	M61108
		Max. Output HP	5.95	4.63	3.22	1.67		
		OHL Output Shaft	3648	4064	4371	4370	210TC	M61115
70.60	69.49	Output RPM	35.4	25	16.4	8.5	140TC	M61103
		Max Input HP	5.56	4.10	2.84	1.50		
		Output Torque (in-lb)	9298	9795	10236	10174	180TC	M61109
		Max. Output HP	5.23	3.85	2.67	1.37		
		OHL Output Shaft	3859	4351	4362	4365	210TC	M61116
86.50	89.47	Output RPM	28.9	20	13.4	6.9	140TC	M61200
		Max Input HP	3.66	2.60	1.80	0.97		
		Output Torque (in-lb)	7743	7858	8202	8576	180TC	M61202
		Max. Output HP	3.44	2.44	1.69	0.91		
		OHL Output Shaft	4655	4642	4605	4562	210TC	M61215
105.90	102.50	Output RPM	23.6	16.5	11.0	5.7	140TC	M61105
		Max Input HP	3.37	2.45	1.63	0.88		
		Output Torque (in-lb)	8454	8780	8812	9198	180TC	M61111
		Max. Output HP	3.17	2.30	1.53	0.83		
		OHL Output Shaft	4571	4536	4539	4495	210TC	M61118
129.70	129.02	Output RPM	19.3	13.5	8.9	4.6	140TC	M61106
		Max Input HP	2.75	2.00	1.33	0.75		
		Output Torque (in-lb)	8449	8515	8807	9140	180TC	M61112
		Max. Output HP	2.59	1.82	1.25	0.67		
		OHL Output Shaft	4578	4569	4541	4495	210TC	M61119

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SINGLE REDUCTION - C-FACE

AGMA Nominal Ratio	Exact Ratio	Rating Data	Input RPM				Frame Size	Model Number
			2500	1750	1160	600		
2.25	2.22	Output RPM	1111	778	516	267	180TC	M61126
		Max Input HP	23.50	18.60	14.20	8.57	210TC	M61132
		Output Torque (in-lb)	1306	1477	1701	1984		
		Max. Output HP	23.03	18.23	13.92	8.40		
		OHL Output Shaft	758	840	948	1166		
2.75	2.68	Output RPM	909	636	422	218	180TC	M61127
		Max Input HP	20.80	16.50	12.60	6.98	210TC	M61133
		Output Torque (in-lb)	1413	1601	1844	1975		
		Max. Output HP	20.38	16.17	12.35	6.84		
		OHL Output Shaft	809	895	1009	1269		
3.37	3.48	Output RPM	742	519	344	178	180TC	M61128
		Max Input HP	17.40	13.20	9.15	5.04	210TC	M61134
		Output Torque (in-lb)	1448	1569	1641	1748		
		Max. Output HP	17.05	12.94	8.97	4.94		
		OHL Output Shaft	875	980	1124	1408		
4.13	4.15	Output RPM	605	424	281	145	180TC	M61129
		Max Input HP	14.10	10.40	7.50	4.00	210TC	M61135
		Output Torque (in-lb)	1438	1515	1600	1700		
		Max. Output HP	13.82	10.19	7.13	3.92		
		OHL Output Shaft	948	1068	1223	1524		
5.06	5.06	Output RPM	494	346	229	119	180TC	M61130
		Max Input HP	10.70	7.83	5.44	3.00	210TC	M94845
		Output Torque (in-lb)	1337	1398	1465	1562		
		Max. Output HP	10.49	7.67	5.33	2.94		
		OHL Output Shaft	1037	1164	1334	1655		
6.20	6.36	Output RPM	403	282	187	97	180TC	M61131
		Max Input HP	7.52	5.49	3.80	2.09	210TC	M61136
		Output Torque (in-lb)	1151	1201	1254	1333		
		Max. Output HP	7.37	5.38	3.72	2.05		
		OHL Output Shaft	1141	1283	1457	1749		

XL Parallel - Size 28

DOUBLE REDUCTION - C-FACE

AGMA Nominal Ratio	Exact Ratio	Rating Data	Input RPM				Frame Size	Model Number
			2500	1750	1160	600		
5.06	5.01	Output RPM	494	346	229	119	140TC	M61203
		Max Input HP	29.80	23.50	17.90	11.50	180TC	M61204
		Output Torque (in-lb)	3613	4062	4668	5798		
		Max. Output HP	28.60	22.50	17.10	11.00		
		OHL Output Shaft	1609	1785	2013	2387	210TC	M61205
6.20	6.19	Output RPM	403	282	187	97	140TC	M61138
		Max Input HP	26.40	20.80	15.80	10.00	180TC	M61148
		Output Torque (in-lb)	3993	4494	5031	6019		
		Max. Output HP	25.30	19.90	15.20	9.26		
		OHL Output Shaft	1710	1898	2134	2321	210TC	M61156
7.60	7.56	Output RPM	329	230	153	79	140TC	M61139
		Max Input HP	23.20	18.40	14.00	8.16	180TC	M61149
		Output Torque (in-lb)	4266	4833	5548	6251		
		Max. Output HP	22.30	17.70	13.44	7.83		
		OHL Output Shaft	1828	2026	2280	2256	210TC	M61157
9.30	9.01	Output RPM	269	188	125	65	140TC	M61140
		Max Input HP	20.90	16.60	12.60	6.84	180TC	M61150
		Output Torque (in-lb)	4702	5335	6110	6412		
		Max. Output HP	20.10	15.90	12.10	6.57		
		OHL Output Shaft	1925	2131	2310	2213	210TC	M61158
11.40	10.88	Output RPM	219	154	102	53	140TC	M61141
		Max Input HP	18.50	15.00	10.50	5.61	180TC	M61151
		Output Torque (in-lb)	5102	5752	6241	6447		
		Max. Output HP	17.80	14.02	10.08	5.39		
		OHL Output Shaft	2037	2258	2218	2199	210TC	M94854
14.00	14.13	Output RPM	179	125	83	43	140TC	M61142
		Max Input HP	15.50	12.30	8.67	4.59	180TC	M61152
		Output Torque (in-lb)	5250	5951	6329	6477		
		Max. Output HP	14.88	11.81	8.32	4.41		
		OHL Output Shaft	2184	2360	2258	2179	210TC	M61159
17.10	17.96	Output RPM	146	102	68	35	140TC	M61143
		Max Input HP	12.90	10.00	6.61	3.64	180TC	M61153
		Output Torque (in-lb)	5337	5638	5893	6274		
		Max. Output HP	12.38	9.16	6.35	3.49		
		OHL Output Shaft	2341	2420	2384	2241	210TC	M94847
20.90	21.16	Output RPM	120	84	56	29	140TC	M61144
		Max Input HP	10.40	7.75	5.20	2.81	180TC	M61154
		Output Torque (in-lb)	5258	5598	5666	5920		
		Max. Output HP	9.98	7.44	4.99	2.70		
		OHL Output Shaft	2529	2471	2464	2398	210TC	M61160
25.60	26.02	Output RPM	98	68	45	23	140TC	M61145
		Max Input HP	8.98	6.33	4.28	2.35	180TC	M94518
		Output Torque (in-lb)	5561	5600	5713	6064		
		Max. Output HP	8.62	6.08	4.11	2.26		
		OHL Output Shaft	2477	2462	2433	2288	210TC	M61161
31.40	30.42	Output RPM	80	56	37	19	140TC	M61146
		Max Input HP	7.50	5.31	3.67	2.00	180TC	M61155
		Output Torque (in-lb)	5583	5762	6008	6140		
		Max. Output HP	7.06	5.10	3.52	1.86		
		OHL Output Shaft	2475	2439	2351	2290	210TC	M61162

XL Parallel - Size 28

TRIPLE REDUCTION - C-FACE

AGMA Nominal Ratio	Exact Ratio	Rating Data	Input RPM				Frame Size	Model Number
			2500	1750	1160	600		
20.90	20.02	Output RPM	122	85	56	29	140TC	M61236
		Max Input HP	24.80	23.50	17.90	9.95	180TC	M61237
		Output Torque (in-lb)	14123	16001	18282	19648	210TC	M61238
		Max. Output HP	28.00	22.10	16.83	9.35		
		OHL Output Shaft	4841	5377	6057	7577		
25.60	24.76	Output RPM	97.7	68	45	23	140TC	M61163
		Max Input HP	26.40	20.80	15.80	10.00	180TC	M61172
		Output Torque (in-lb)	15475	17383	19888	23600	210TC	M61181
		Max. Output HP	24.80	19.50	14.80	9.00		
		OHL Output Shaft	5635	6265	7068	8689		
31.40	31.13	Output RPM	79.6	56	37	19	140TC	M61164
		Max Input HP	20.00	15.10	11.50	7.50	180TC	M61173
		Output Torque (in-lb)	14281	16045	18435	22748	210TC	M61182
		Max. Output HP	10.04	14.20	10.81	6.90		
		OHL Output Shaft	6197	6886	7773	9424		
38.50	39.54	Output RPM	64.9	45	30	16	140TC	M61165
		Max Input HP	20.00	15.60	11.90	6.53	180TC	M61174
		Output Torque (in-lb)	18057	20324	23389	24814	210TC	M94848
		Max. Output HP	18.60	14.70	11.19	6.14		
		OHL Output Shaft	6374	7088	7982	9299		
47.10	46.58	Output RPM	53.1	37	25	12.7	140TC	M61206
		Max Input HP	15.37	11.14	7.64	4.17	180TC	M61207
		Output Torque (in-lb)	16861	17551	18103	18774	210TC	M61208
		Max. Output HP	14.50	10.47	7.18	3.87		
		OHL Output Shaft	6323	7141	8200	8548		
57.70	56.52	Output RPM	43.4	30	20	10.4	140TC	M61167
		Max Input HP	15.00	11.70	7.96	4.28	180TC	M61176
		Output Torque (in-lb)	20365	22845	23448	24375	210TC	M61184
		Max. Output HP	14.00	11.00	7.48	4.02		
		OHL Output Shaft	7208	8012	9239	9279		
70.60	71.84	Output RPM	35.4	25	16.4	8.5	140TC	M61168
		Max Input HP	12.90	10.00	6.61	3.63	180TC	M61177
		Output Torque (in-lb)	21574	22792	23824	25295	210TC	M61185
		Max. Output HP	12.13	8.97	6.21	3.41		
		OHL Output Shaft	7651	8599	9342	9186		
86.50	88.36	Output RPM	28.9	20	13.4	6.9	140TC	M61169
		Max Input HP	9.62	7.02	5.00	2.69	180TC	M61178
		Output Torque (in-lb)	19712	20549	21550	22966	210TC	M61186
		Max. Output HP	9.04	6.60	4.59	2.53		
		OHL Output Shaft	8374	9451	9560	9435		
105.90	104.09	Output RPM	23.6	16.5	11.0	5.7	140TC	M61170
		Max Input HP	8.67	6.33	4.28	2.35	180TC	M61179
		Output Torque (in-lb)	21749	22685	23139	24563	210TC	M61187
		Max. Output HP	8.15	5.95	4.02	2.21		
		OHL Output Shaft	8849	9439	9408	9278		
129.70	121.69	Output RPM	19.3	13.5	8.9	4.6	140TC	M61171
		Max Input HP	7.52	5.49	3.67	2.00	180TC	M61180
		Output Torque (in-lb)	23104	24096	24300	25475	210TC	M61188
		Max. Output HP	7.07	5.16	3.45	1.87		
		OHL Output Shaft	9396	9307	9301	9152		

XL Parallel - 1/3 HP

AGMA CLASS I THROUGH AGMA CLASS III

Rated Output		Output Torque (in-lbvd)	TENV Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
230	728	88	56	DG16A	7.6
190	768	106	56	DG16A	9.3
155	812	130	56	DG16A	11.4
125	862	161	56	DG16A	14.0
100	916	201	56	DG16A	17.1
84	960	240	56	DG16A	20.9
68	1014	296	56	DG16A	25.6
56	1066	360	56	DG16A	31.4
46	1964	438	56	TG16A	38.5
37	2072	533	56	TG16A	47.1
30	2192	658	56	TG16A	57.7
25	2191	789	56	TG16A	70.6
20	2177	986	56	TG16A	86.5
17	2161	1196	56	TG16A	105.9
13	2138	1461	56	TG16A	129.7

Ratings apply to both single phase and three phase integral gearmotors.

Single Phase:

Type CS; 1750 RPM; 1/60/115/230

Three Phase:

Type P; 1750 RPM; 3/60/230/460. See MLP for 575V.

(1) Overhung load in pounds (lbs.) at one shaft diameter from the shaft shoulder.

XL Parallel - 1/2 HP

AGMA CLASS I THROUGH AGMA CLASS III

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	324	40	56	SG16A	2.25
640	323	48	56	SG16A	2.75
520	323	59	56	SG16A	3.37
420	321	74	56	SG16A	4.13
350	320	88	56	SG16A	5.06
280	319	110	56	SG16A	6.2
230	719	132	56	DG16A	7.6
190	757	159	56	DG16A	9.3
155	799	195	56	DG16A	11.4
125	845	242	56	DG16A	14.0
100	894	303	56	DG16A	17.1
84	935	360	56	DG16A	20.9
68	984	445	56	DG16A	25.6
56	1029	540	56	DG16A	31.4
46	1929	658	56	TG16A	38.5
37	2029	801	56	TG16A	47.1
30	2139	987	56	TG16A	57.7
25	2162	1185	56	TG16A	70.6
20	2136	1481	56	TG16A	86.5
17	2104	1795	56	TG16A	105.9
13	2059	2194	56	TG16A	129.7

Ratings apply to both single phase and three phase integral gearmotors.

Single Phase:

Type CS; 1750 RPM; 1/60/115/230

Three Phase:

Type P; 1750 RPM; 3/60/230/460. See MLP for 575V.

(1) Overhung load in pounds (lbs.) at one shaft diameter from the shaft shoulder.

XL Parallel - 3/4 HP

AGMA CLASS I THROUGH AGMA CLASS III

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	322	59	56	SG16A	2.25
640	321	72	56	SG16A	2.75
520	320	89	56	SG16A	3.37
420	318	110	56	SG16A	4.13
350	315	132	56	SG16A	5.06
280	311	165	56	SG16A	6.2
230	705	197	56	DG16A	7.6
190	740	239	56	DG16A	9.3
155	778	293	56	DG16A	11.4
125	819	363	56	DG16A	14.0
100	862	454	56	DG16A	17.1
84	898	540	56	DG16A	20.9
68	938	667	56	DG16A	25.6
56	973	810	56	DG16A	31.4
46	1875	987	56	TG16A	38.5
37	1964	1201	56	TG16A	47.1
30	2058	1481	56	TG16A	57.7
25	2106	1777	56	TG16A	70.6
20	2055	2222	56	TG16A	86.5
17	1993	2693	56	TG16A	105.9
13	1901	3291	56	TG16A	129.7

Ratings apply to both single phase and three phase integral gearmotors.

Single Phase:

Type CS; 1750 RPM; 1/60/115/230

Three Phase:

Type P; 1750 RPM; 3/60/230/460. See MLP for 575V.

(1) Overhung load in pounds (lbs.) at one shaft diameter from the shaft shoulder.

XL Parallel - 1 HP

AGMA CLASS I

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL (1)				
780	320	79	56	SG16A	2.25
640	319	97	56	SG16A	2.75
520	316	119	56	SG16A	3.37
420	313	147	56	SG16A	4.13
350	309	176	56	SG16A	5.06
280	299	221	56	SG16A	6.2
230	691	263	56	DG16A	7.6
190	723	318	56	DG16A	9.3
155	758	390	56	DG16A	11.4
125	794	484	56	DG16A	14.0
100	830	605	56	DG16A	17.1
84	861	720	56	DG16A	20.9
68	892	890	56	DG16A	25.6
56	917	1080	56	DG16A	31.4
46	1822	1316	56	TG16A	38.5
37	1898	1601	56	TG16A	47.1
30	1977	1975	56	TG16A	57.7
25	2037	2370	56	TG16A	70.6
20	1953	2962	56	TG16A	86.5
17	1824	3590	56	TG16A	105.9
13	4810	4388	56	TG21A	129.7

AGMA CLASS II

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL (1)				
780	318	79	140	SG16A2	2.25
640	314	97	140	SG16A2	2.75
520	310	119	140	SG16A2	3.37
420	302	147	140	SG16A2	4.13
350	292	176	140	SG16A2	5.06
280	818	221	140	SG21A2	6.2
230	809	263	140	DG16A2	7.6
190	697	318	140	DG16A2	9.3
155	725	390	140	DG16A2	11.4
125	755	484	140	DG16A2	14.0
100	780	605	140	DG16A2	17.1
84	800	720	140	DG16A2	20.9
68	1935	890	140	DG21A2	25.6
56	2010	1080	140	DG21A2	31.4
46	1727	1316	140	TG16A2	38.5
37	1785	1601	140	TG16A2	47.1
30	1837	1975	140	TG16A2	57.7
25	1880	2370	140	TG16A2	70.6
20	4975	2962	140	TG21A2	86.5
17	4905	3590	140	TG21A2	105.9
13	4810	4388	140	TG21A2	129.7

AGMA CLASS III

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL (1)				
780	310	79	140	SG16A3	2.25
640	304	97	140	SG16A3	2.75
520	292	119	140	SG16A3	3.37
420	275	147	140	SG16A3	4.13
350	797	176	140	SG21A3	5.06
280	800	221	140	SG21A3	6.2
230	784	263	140	DG16A3	7.6
190	656	318	140	DG16A3	9.3
155	675	390	140	DG16A3	11.4
125	688	484	140	DG16A3	14.0
100	702	605	140	DG16A3	17.1
84	1758	720	140	DG21A3	20.9
68	1817	890	140	DG21A3	25.6
56	1987	1080	140	DG21A3	31.4
46	1601	1316	140	TG16A3	38.5
37	1628	1601	140	TG16A3	47.1
30	4689	1975	140	TG21A3	57.7
25	4891	2370	140	TG21A3	70.6
20	4802	2962	140	TG21A3	86.5
17	4714	3590	140	TG21A3	105.9
13	4540	4388	140	TG21A3	129.7

Ratings apply to both single phase and three phase integral gearmotors.

Single Phase:

Type CS; 1750 RPM; 1/60/115/230

Three Phase:

Type P; 1750 RPM; 3/60/230/460. See MLP for 575V.

(1) Overhung load in pounds (lbs.) at one shaft diameter from the shaft shoulder.

XL Parallel - 1-1/2 HP

AGMA CLASS I

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	316	119	140	SG16A	2.25
640	313	145	140	SG16A	2.75
520	308	178	140	SG16A	3.37
420	298	221	140	SG16A	4.13
350	286	265	140	SG16A	5.06
280	815	331	140	SG21A	6.2
230	663	395	140	DG16A	7.6
190	689	478	140	DG16A	9.3
155	716	585	140	DG16A	11.4
125	743	726	140	DG16A	14.0
100	766	907	140	DG16A	17.1
84	786	1080	140	DG16A	20.9
68	1918	1335	140	DG21A	25.6
56	1987	1621	140	DG21A	31.4
46	1713	1975	140	TG16A	38.5
37	1765	2402	140	TG16A	47.1
30	1811	2962	140	TG16A	57.7
25	1837	3554	140	TG16A	70.6
20	4950	4442	140	TG21A	86.5
17	4880	5385	140	TG21A	105.9
14	4773	6582	140	TG21A	129.7
11	4618	8078	182T ⁽²⁾	TG21A	105.9
9	10404	9873	182T ⁽²⁾	TG28A	129.7

AGMA CLASS II

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	308	119	140	SG16A2	2.25
640	302	145	140	SG16A2	2.75
520	288	178	140	SG16A2	3.37
420	270	221	140	SG16A2	4.13
350	793	265	140	SG21A2	5.06
280	797	331	140	SG21A2	6.2
230	630	395	140	DG16A2	7.6
190	650	478	140	DG16A2	9.3
155	667	585	140	DG16A2	11.4
125	682	726	140	DG16A2	14.0
100	1680	907	140	DG21A2	17.1
84	1740	1080	140	DG21A2	20.9
68	1790	1335	140	DG21A2	25.6
56	2005	1616	140	TG16A2	31.4
46	2018	1975	140	TG16A2	38.5
37	2032	2402	140	TG16A2	47.1
30	4665	2962	140	TG21A2	57.7
25	4862	3554	140	TG21A2	70.6
20	4785	4442	140	TG21A2	86.5
17	4670	5385	140	TG21A2	105.9
14	10440	6582	140	TG28A2	129.7
11	10321	8078	182T ⁽²⁾	TG28A2	105.9
9	10160	9873	182T ⁽²⁾	TG28A2	129.7

AGMA CLASS III

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	289	119	140	SG16A3	2.25
640	275	145	140	SG16A3	2.75
520	698	178	140	SG16A3	3.37
420	736	221	140	SG21A3	4.13
350	769	265	140	SG21A3	5.06
280	540	324	140	DG16A3	6.2
230	560	395	140	DG16A3	7.6
190	580	478	140	DG16A3	9.3
155	587	585	140	DG16A3	11.4
125	1510	726	140	DG21A3	14.0
100	1550	907	140	DG21A3	17.1
84	1600	1080	140	DG21A3	20.9
68	1797	1306	140	TG16A3	25.6
56	2823	1621	140	DG28A3	31.4
46	4103	1975	140	TG21A3	38.5
37	4285	2402	140	TG21A3	47.1
30	4475	2962	140	TG21A3	57.7
25	4634	3554	140	TG21A3	70.6
20	10400	4442	140	TG28A3	86.5
17	10353	5385	140	TG28A3	105.9
14	10204	6582	140	TG28A3	129.7
11	9994	8078	182T ⁽²⁾	TG28A3	105.9
9	9707	9873	182T ⁽²⁾	TG28A3	129.7

Three Phase:

Type P; 1750 RPM; 3/60/230/460. See MLP for 575V.

(1) Overhung load in pounds (lbs.) at one shaft diameter from the shaft shoulder.

(2) These ratings use a 1160 RPM motor.

XL Parallel - 2 HP

AGMA CLASS I

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	310	158	140	SG16A	2.25
640	304	193	140	SG16A	2.75
520	292	238	140	SG16A	3.37
420	275	294	140	SG16A	4.13
350	797	353	140	SG21A	5.06
280	800	441	140	SG21A	6.2
230	635	526	140	DG16A	7.6
190	656	637	140	DG16A	9.3
155	675	781	140	DG16A	11.4
125	691	968	140	DG16A	14.0
100	702	1210	140	DG16A	17.1
84	1758	1441	140	DG21A	20.9
68	1817	1779	140	DG21A	25.6
56	1863	2161	140	DG21A	31.4
46	1601	2633	140	TG16A	38.5
37	1628	3202	140	TG16A	47.1
30	4689	3949	140	TG21A	57.7
25	4891	4739	140	TG21A	70.6
20	4823	5924	140	TG21A	86.5
17	4714	7181	140	TG21A	105.9
14	4540	8776	140	TG21A	129.7
11	10353	10771	182T ⁽²⁾	TG28A	105.9
9	10204	13164	182T ⁽²⁾	TG28A	129.7

AGMA CLASS II

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	294	158	140	SG16A2	2.25
640	282	193	140	SG16A2	2.75
520	258	238	140	SG16A2	3.37
420	741	294	140	SG21A2	4.13
350	774	353	140	SG21A2	5.06
280	575	432	140	DG16A2	6.2
230	592	526	140	DG16A2	7.6
190	603	637	140	DG16A2	9.3
155	610	781	140	DG16A2	11.4
125	610	968	140	DG16A2	14.0
100	1580	1210	140	DG21A2	17.1
84	1627	1441	140	DG21A2	20.9
68	2910	1779	140	DG28A2	25.6
56	2845	2161	140	DG28A2	31.4
46	4130	2633	140	TG21A2	38.5
37	4320	3202	140	TG21A2	47.1
30	4515	3949	140	TG21A2	57.7
25	4685	4739	140	TG21A2	70.6
20	4692	5924	140	TG28A2	86.5
17	10400	7181	140	TG28A2	105.9
14	10280	8776	140	TG28A2	129.7
11	10073	10771	182T ⁽²⁾	TG28A2	105.9
9	9817	13164	182T ⁽²⁾	TG28A2	129.7

AGMA CLASS III

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	613	158	140	SG21A3	2.25
640	645	193	140	SG21A3	2.75
520	679	238	140	SG21A3	3.37
420	713	294	140	SG21A3	4.13
350	724	350	140	DG16A3	5.06
280	1237	432	140	DG21A3	6.2
230	1293	526	140	DG21A3	7.6
190	1330	650	140	DG21A3	9.3
155	1365	781	140	DG21A3	11.4
125	1393	968	140	DG21A3	14.0
100	1407	1210	140	DG21A3	17.1
84	2865	1441	140	DG28A3	20.9
68	2785	1779	140	DG28A3	25.6
56	2675	2161	140	DG28A3	31.4
46	3960	2633	140	TG21A3	38.5
37	4110	3202	140	TG21A3	47.1
30	4260	3949	140	TG21A3	57.7
25	4375	4739	140	TG21A3	70.6
20	10120	5924	140	TG28A3	86.5
17	10120	7181	140	TG28A3	105.9
14	9900	8776	140	TG28A3	129.7
11	9548	10771	182T ⁽²⁾	TG28A3	105.9

Three Phase:

Type P; 1750 RPM; 3/60/230/460. See MLP for 575V.

(1) Overhung load in pounds (lbs.) at one shaft diameter from the shaft shoulder.

(2) These ratings use a 1160 RPM motor.

XL Parallel - 3 HP

AGMA CLASS I

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	628	238	182T	SG21A	2.25
640	662	290	182T	SG21A	2.75
520	698	356	182T	SG21A	3.37
420	736	441	182T	SG21A	4.13
350	769	529	182T	SG21A	5.06
280	1294	648	182T	DG21A	6.2
230	1356	789	182T	DG21A	7.6
190	1408	955	182T	DG21A	9.3
155	1460	1171	182T	DG21A	11.4
125	1510	1452	182T	DG21A	14.0
100	1552	1815	182T	DG21A	17.1
84	1600	2161	182T	DG21A	20.9
68	2892	2669	182T	DG28A	25.6
56	2822	3241	182T	DG28A	31.4
46	4103	3949	182T	TG21A	38.5
37	4285	4803	182T	TG21A	47.1
30	4475	5924	182T	TG21A	57.7
25	4634	7109	182T	TG21A	70.6
20	10355	8866	182T	TG28A	86.5
17	10353	10771	182T	TG28A	105.9
14	10204	13164	182T	TG28A	129.7
11	9994	16156	213T ⁽²⁾	TG28A	105.9
9	9707	19746	213T ⁽²⁾	TG28A	129.7

AGMA CLASS II

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	611	238	182T	SG21A2	2.25
640	642	290	182T	SG21A2	2.75
520	675	356	182T	SG21A2	3.37
420	708	441	182T	SG21A2	4.13
350	1177	518	182T	DG21A2	5.06
280	1227	648	182T	DG21A2	6.2
230	1275	789	182T	DG21A2	7.6
190	1315	955	182T	DG21A2	9.3
155	1345	1171	182T	DG21A2	11.4
125	1370	1452	182T	DG21A2	14.0
100	1380	1815	182T	DG21A2	17.1
84	2850	2161	182T	DG21A2	20.9
68	2760	2669	182T	DG28A2	25.6
56	2640	3241	182T	DG28A2	31.4
46	3930	3949	182T	TG21A2	38.5
37	4075	4803	182T	TG21A2	47.1
30	4205	5924	182T	TG21A2	57.7
25	4325	7109	182T	TG21A2	70.6
20	10080	8866	182T	TG28A2	86.5
17	10080	10771	182T	TG28A2	105.9
14	10270	13164	182T	TG28A2	129.7
11	9449	16156	213T ⁽²⁾	TG28A2	105.9

AGMA CLASS III

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	585	238	182T	SG21A3	2.25
640	613	290	182T	SG21A3	2.75
520	1097	356	182T	SG28A3	3.37
420	1155	441	182T	SG28A3	4.13
350	1102	518	182T	DG21A3	5.06
280	1132	648	182T	DG21A3	6.2
230	1170	789	182T	DG21A3	7.6
190	1180	955	182T	DG21A3	9.3
155	1180	1171	182T	DG21A3	11.4
125	2700	1452	182T	DG28A3	14.0
100	2770	1815	182T	DG28A3	17.1
84	2675	2161	182T	DG28A3	20.9
68	2510	2669	182T	DG28A3	25.6
56	7620	3241	182T	TG21A3	31.4
46	8060	3949	182T	TG21A3	38.5
37	8460	4803	182T	TG28A3	47.1
30	8860	5924	182T	TG28A3	57.7
25	9240	7109	182T	TG28A3	70.6
20	9680	8866	182T	TG28A3	86.5
17	9530	10771	182T	TG28A3	105.9

Three Phase:

Type P; 1750 RPM; 3/60/230/460. See MLP for 575V.

(1) Overhung load in pounds (lbs.) at one shaft diameter from the shaft shoulder.

XL Parallel - 5 HP

AGMA CLASS I

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	600	396	184T	SG21A	2.25
640	629	483	184T	SG21A	2.75
520	660	594	184T	SG21A	3.37
420	1176	735	184T	SG28A	4.13
350	1145	864	184T	DG21A	5.06
280	1185	1080	184T	DG21A	6.2
230	1232	1315	184T	DG21A	7.6
190	1257	1592	184T	DG21A	9.3
155	1275	1952	184T	DG21A	11.4
125	1280	2420	184T	DG21A	14.0
100	2846	3025	184T	DG28A	17.1
84	2776	3601	184T	DG28A	20.9
68	2655	4449	184T	DG28A	25.6
56	2502	5402	184T	DG28A	31.4
46	3817	6582	184T	TG21A	38.5
37	3937	8005	184T	TG21A	47.1
30	4045	9873	184T	TG21A	57.7
25	9416	11848	184T	TG28A	70.6
20	9905	14810	184T	TG28A	86.5
17	9855	17951	184T	TG28A	105.9
13	9512	21940	184T	TG28A	129.7

AGMA CLASS II

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	570	396	184T	SG21A2	2.25
640	598	483	184T	SG21A2	2.75
520	1080	594	184T	SG28A2	3.37
420	1135	735	184T	SG28A2	4.13
350	1060	864	184T	DG21A2	5.06
280	1077	1080	184T	DG21A2	6.2
230	1107	1315	184T	DG21A2	7.6
190	1107	1592	184T	DG21A2	9.3
155	2540	1952	184T	DG28A2	11.4
125	2655	2420	184T	DG28A2	14.0
100	2682	3025	184T	DG28A2	17.1
84	2560	3601	184T	DG28A2	20.9
68	4056	4356	184T	TG21A2	25.6
56	4398	5402	184T	TG21A2	31.4
46	7980	6582	184T	TG28A2	38.5
37	8710	8002	184T	TG28A2	47.1
30	8715	9873	184T	TG28A2	57.7
25	9050	11848	184T	TG28A2	70.6
20	9451	14810	184T	TG28A2	86.5

AGMA CLASS III

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	941	396	184T	SG28A3	2.25
640	985	483	184T	SG28A3	2.75
520	1032	594	184T	SG28A3	3.37
420	1076	735	184T	SG28A3	4.13
280	2125	1103	184T	DG28A3	6.2
230	2232	1315	184T	DG28A3	7.6
190	2326	1592	184T	DG28A3	9.3
155	2425	1952	184T	DG28A3	11.4
125	2523	2420	184T	DG28A3	14.0
100	2327	3025	184T	DG28A3	17.1
68	6979	4356	184T	TG28A3	25.6
56	7295	5402	184T	TG28A3	31.4
46	7648	6582	184T	TG28A3	38.5
37	8230	8002	184T	TG28A3	47.1
30	8267	9873	184T	TG28A3	57.7
25	8020	12101	184T	TG28A3	70.6

Three Phase:

Type P; 1750 RPM; 3/60/230/460. See MLP for 575V.

(1) Overhung load in pounds (lbs.) at one shaft diameter from the shaft shoulder.

XL Parallel - 7.5 HP

AGMA CLASS I

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	562	594	213T	SG21A	2.25
640	1020	724	213T	SG28A	2.75
520	1073	891	213T	SG28A	3.37
420	1126	1103	213T	SG28A	4.13
350	1172	1323	213T	SG28A	5.06
280	1052	1621	213T	DG21A	6.2
230	1075	1973	213T	DG21A	7.6
190	1066	2388	213T	DG21A	9.3
155	2516	2927	213T	DG28A	11.4
125	2636	3630	213T	DG28A	14.0
100	2636	4537	213T	DG28A	17.1
84	2502	5402	213T	DG28A	20.9
68	4056	6534	213T	TG21A	25.6
56	7496	7934	213T	TG28A	31.4
46	7898	9873	213T	TG28A	38.5
37	7567	12004	213T	TG28A	47.1
30	8642	14810	213T	TG28A	57.7
25	8966	17772	213T	TG28A	70.6

AGMA CLASS III

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	690	594	213T	SG28A3	2.25
640	710	724	213T	SG28A3	2.75
350	1930	1296	213T	DG28A3	5.06
280	2020	1621	213T	DG28A3	6.2
230	2110	1973	213T	DG28A3	7.6
190	2178	2388	213T	DG28A3	9.3
155	2243	2927	213T	DG28A3	11.4
84	5800	5288	213T	TG28A3	20.9
68	6648	6534	213T	TG28A3	25.6
56	6894	7934	213T	TG28A3	31.4
45	7140	9873	213T	TG28A3	38.5

AGMA CLASS II

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	745	594	213T	SG28A2	2.25
640	745	724	213T	SG28A2	2.75
520	810	891	213T	SG28A2	3.37
420	840	1103	213T	SG28A2	4.13
350	2005	1296	213T	DG28A2	5.06
280	2112	1621	213T	DG28A2	6.2
230	2220	1973	213T	DG28A2	7.6
190	2310	2388	213T	DG28A2	9.3
155	2412	2927	213T	DG28A2	11.4
125	2500	3630	213T	DG28A2	14.0
84	6040	5288	213T	TG28A2	20.9
68	6940	6534	213T	TG28A2	25.6
56	7260	7934	213T	TG28A2	31.4
46	7600	9873	213T	TG28A2	38.5
37	7190	12004	213T	TG28A2	47.1
30	8200	14810	213T	TG28A2	57.7

Three Phase:

Type P; 1750 RPM; 3/60/230/460. See MLP for 575V.

(1) Overhung load in pounds (lbs.) at one shaft diameter from the shaft shoulder.

XL Parallel - 10 HP

AGMA CLASS I

Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	893	792	215T	SG28A	2.25
640	928	965	215T	SG28A	2.75
520	1032	1188	215T	SG28A	3.37
420	1076	1471	215T	SG28A	4.13
350	2012	1728	215T	DG28A	5.06
280	2040	2161	215T	DG28A	6.2
230	2132	2630	215T	DG28A	7.6
190	2207	3184	215T	DG28A	9.3
155	2327	3903	215T	DG28A	11.4
125	2523	4840	215T	DG28A	14.0
100	2420	6050	215T	DG28A	17.1
84	6060	7050	215T	TG28A	20.9
68	6720	8712	215T	TG28A	25.6
56	6970	10578	215T	TG28A	31.4
46	7240	13164	215T	TG28A	38.5
37	7248	16008	215T	TG28A	47.1
30	8267	19746	215T	TG28A	57.7
25	8599	23697	215T	TG28A	70.6

AGMA CLASS II

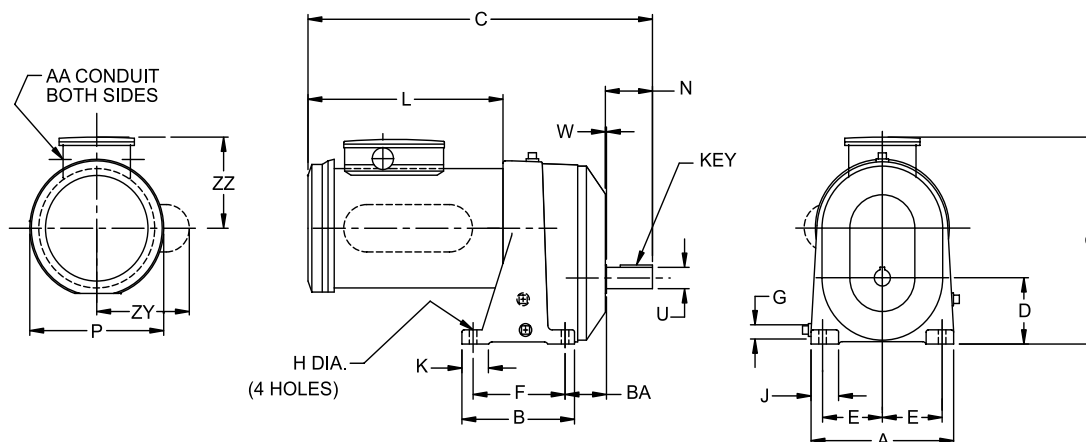
Rated Output		Output Torque (in-lb)	TEFC Motor Frame	Gearcase Size	Ratio
RPM	OHL ⁽¹⁾				
780	700	792	215T	SG28A2	2.25
640	720	965	215T	SG28A2	2.75
350	1945	1728	215T	DG28A2	5.06
280	1690	2161	215T	DG28A2	6.2
230	1770	2630	215T	DG28A2	7.6
190	1810	3184	215T	DG28A2	9.3
155	1870	3903	215T	DG28A2	11.4
84	5850	7050	215T	TG28A2	20.9
68	5250	8712	215T	TG28A2	25.6
56	5400	10578	215T	TG28A2	31.4
45	5500	13164	215T	TG28A2	38.5

Three Phase:

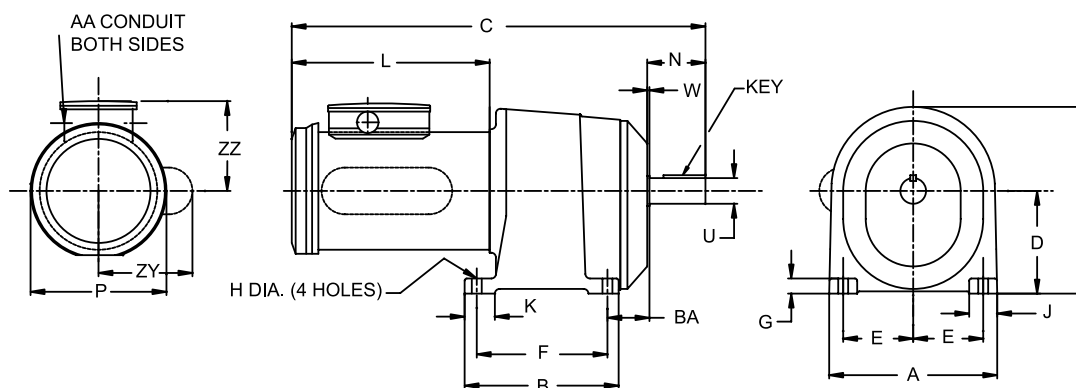
Type P; 1750 RPM; 3/60/230/460. See MLP for 575V.

- (1) Overhung load in pounds (lbs.) at one shaft diameter from the shaft shoulder.

Integral Gearmotor Dimensions



SINGLE REDUCTION



DOUBLE/ TRIPLE REDUCTION

	Unit Size	A	B	D	E	F	G	H	J
Single Reduction	SG16A	7.00	5.06	2.50	3.00	4.00	0.63	0.34	1.25
	SG21A	7.75	6.13	3.50	3.25	5.00	0.75	0.41	1.50
	SG28A	9.50	8.75	4.50	3.94	7.50	0.88	0.66	2.00
Double Reduction	DG16A	8.00	7.00	4.50	3.50	6.00	0.63	0.41	1.25
	DG21A	9.00	8.25	5.50	3.75	7.00	0.81	0.53	1.50
	DG28A	11.63	10.81	6.50	4.75	9.25	0.88	0.66	2.31
Triple Reduction	TG16A	8.00	9.25	4.63	3.50	8.00	0.63	0.41	1.38
	TG21A	11.00	12.00	6.63	4.88	10.63	0.88	0.63	1.50
	TG28A	13.00	15.50	8.25	5.50	13.75	0.88	0.81	2.00

	Unit Size	K	N	W	BA	U		Key	
						Min	Max	Square	Length
Single Reduction	SG16A	1.25	1.81	0.06	1.38	0.7495	0.7500	3/16	1-1/4
	SG21A	1.44	2.56	0.06	2.25	1.1245	1.1250	1/4	1-3/4
	SG28A	1.63	3.13	0.13	2.50	1.3745	1.3750	5/16	2
Double Reduction	DG16A	1.25	2.50	0.06	1.88	1.1245	1.1250	1/4	1-3/4
	DG21A	1.63	3.13	0.13	2.25	1.3745	1.3750	5/16	2-1/4
	DG28A	2.00	4.44	0.19	2.63	1.9995	2.0000	1/2	3
Triple Reduction	TG16A	1.50	3.38	0.13	2.25	1.3745	1.3750	5/16	2-1/4
	TG21A	1.50	4.50	0.19	2.69	1.9995	2.0000	1/2	3
	TG28A	1.88	6.50	0.31	3.44	2.7495	2.7500	5/8	4

Integral Gearmotor Dimensions

SINGLE REDUCTION

Unit Size	Motor HP	Frame	Encl.	C ★	O	AA	AB	L ★	P	ZY					
SG16	1/2	FB56	TENV	14.75	7.88	0.50	---	8.56	6.47	5.03					
		FC56	TENV	15.75				9.56							
		FC56	TEFC	15.63											
	3/4	FC56	TENV	15.75											
		FC56	TEFC	15.63											
	1	FB56	TENV	14.75				8.56							
		FC56	TEFC	15.63				9.56							
		FD56	TEFC	16.69				10.63							
		FC140	TEFC	15.63				9.44							
	1-1/2	FC140	TEFC					10.50							
2	FD140	TEFC	16.69	9.44	---										
SG21	1	FC140	TEFC	17.56		9.63	0.75	5.28	12.47	9.25					
	1-1/2	FC140	TEFC												
	2	FD140	TEFC								18.63	10.63	1.00	8.69	17.53	10.63
	3	182T	TEFC	21.34											
	5	184T	TEFC	22.50											
	7-1/2	213T	TEFC	26.41	12.50						0.75	5.28	12.47	9.25	
SG28	3	182T	TEFC	23.00											
	5	184T	TEFC	24.00											
	7-1/2	213T	TEFC	28.06											
	10	215T	TEFC	28.06											

DOUBLE REDUCTION

Unit Size	Motor HP	Frame	Encl.	C ★	O	AA	AB	L ★	P	ZY	
DG16	1/3	FB56	TENV	18.41	8.63	0.50	---	8.56	6.47	5.03	
		FC56	TENV	19.41				9.56			
	1/2	FB56	TENV	18.41				8.56			
		FC56	TENV	19.41				9.56			
		FC56	TEFC	19.28							
	3/4	FC56	TENV	19.41				9.56			
		FC56	TEFC	19.28							
	1	FB56	TENV	18.41				8.56			
		FC56	TEFC	19.28				9.56			
		FD56	TEFC	20.34				10.63			
		FC140	TEFC	19.28				9.44			
1-1/2	FC140	TEFC	10.50								
2	FD140	TEFC	20.34	9.44							
DG21	1	FC140	TEFC	21.00	9.88	0.75	5.28	9.44	9.25	---	
	1-1/2	FC140	TEFC					10.50			
	2	FD140	TEFC					22.06			12.47
	3	182T	TEFC					24.75			13.47
	5	184T	TEFC					25.75			
DG28	1-1/2	FC140	TEFC	24.88	12.31	0.50	---	9.44	6.47		
	2	FD140	TEFC	25.94				10.50			
	3	182T	TEFC	28.59		0.75	5.28	12.47	9.25		
	5	184T	TEFC	29.59				13.47			
	7-1/2	213T	TEFC	33.66		1.00	8.69	17.53	10.63		
	10	215T	TEFC								

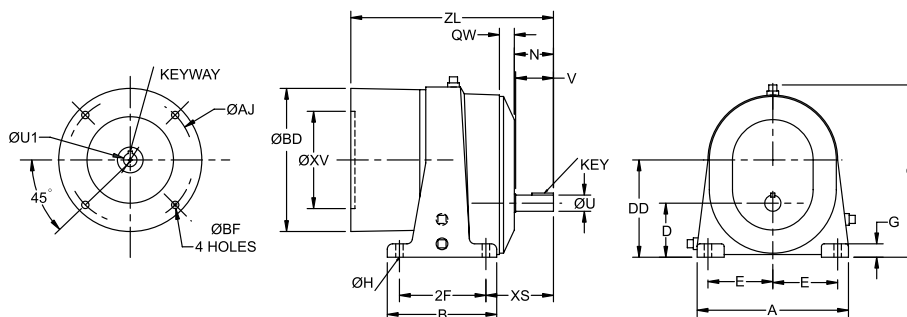
Integral Gearmotor Dimensions

TRIPLE REDUCTION

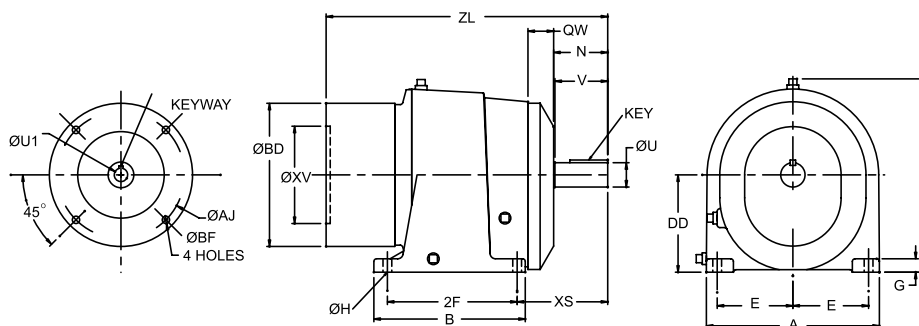
Unit Size	Motor HP	Frame	Encl.	C ★	O	AA	AB	L ★	P	ZY				
TG16	1/3	FB56	TENV	22.50	8.63	0.50	---	8.56	6.47	5.03				
		FC56		23.50				9.56						
	1/2	FB56		22.50				8.56						
		FC56		23.50				9.56						
		FC56	TEFC	23.38										
		FC56	TENV	23.50										
	3/4	FC56	TEFC	23.38				8.56		9.56	10.63			
		FC56	TENV	22.50										
	1	FC56	TEFC	23.38								9.56		
		FD56		24.44								10.63		
TG21	1	FB56	TENV	26.00	11.06	0.50	---	8.56	6.47	5.03				
		FC56	TEFC	26.88				9.56		5.44				
		FD56		27.94				10.63		---				
		FC140		26.88				9.44						
	FC140	26.88		12.47		9.25								
	182T	30.63		10.50		6.47								
	2	FD140		27.94		0.75	5.28	12.47			9.25			
	3	182T		30.63				13.47						
	5	184T		31.63										
	TG28	1-1/2		FC140		TEFC	32.63	14.06			0.50	---	9.44	6.47
				182T			36.34			0.75	12.47		9.25	
		2		FD140			33.69			0.50	10.50		6.47	
				184T			37.34			0.75	13.47		9.25	
3		182T	36.34	1.00	5.28		12.47		9.25					
		213T	41.41				17.53		10.63					
5		184T	37.34	0.75	5.28		13.47		9.25					
7-1/2		213T	41.41	1.00	8.69		17.53		10.63					
10		215T					17.53		10.63					

★ Motor length is subject to change. Please request dimension sheet if this is a critical dimension

Gearcase Dimensions C-FACE



SINGLE REDUCTION



DOUBLE AND TRIPLE REDUCTION

	Reducer Size	A	B	XS	D	DD	E	2F	G	H (4) Holes	N	QW	Output Shaft		
													U ♦	V ■	Key
Single Reduction	SM16A	7.00	5.06	3.13	2.50	4.50	3.00	4.00	0.63	0.34	1.81	0.69	0.750	1.75	3/16 x 3/16 x 1-1/4
	SM21A	7.75	6.13	4.75	3.50	6.13	3.25	5.00	0.75	0.41	2.56	1.50	1.125	2.50	1/4 x 1/4 x 1-3/4
	SM28A	9.50	8.75	5.50	4.50	8.00	3.94	7.50	0.88	0.66	3.13	1.63	1.375	3.00	5/16 x 5/16 x 2
Double Reduction	DM16A	8.00	7.00	4.31	---	4.50	3.50	6.00	0.63	0.41	2.50	1.19	1.125	2.44	1/4 x 1/4 x 1-3/4
	DM21A	9.00	8.25	5.25	---	5.50	3.75	7.00	0.81	0.53	3.13	1.44	1.375	3.00	5/16 x 5/16 x 2-1/4
	DM28A	11.63	10.81	6.88	---	6.50	4.75	9.25	0.88	0.66	4.44	1.63	2.000	4.25	1/2 x 1/2 x 3
Triple Reduction	TM16A	8.00	9.25	5.75	---	4.63	3.50	8.00	0.63	0.41	3.38	1.81	1.375	3.25	5/16 x 5/16 x 2-1/4
	TM21A	11.00	12.00	7.00	---	6.63	4.88	10.63	0.88	0.63	4.50	1.69	2.000	4.31	1/2 x 1/2 x 3
	TM28A	13.00	15.50	9.63	---	8.25	5.50	13.75	0.88	0.81	6.50	2.13	2.750	6.19	5/8 x 5/8 x 5

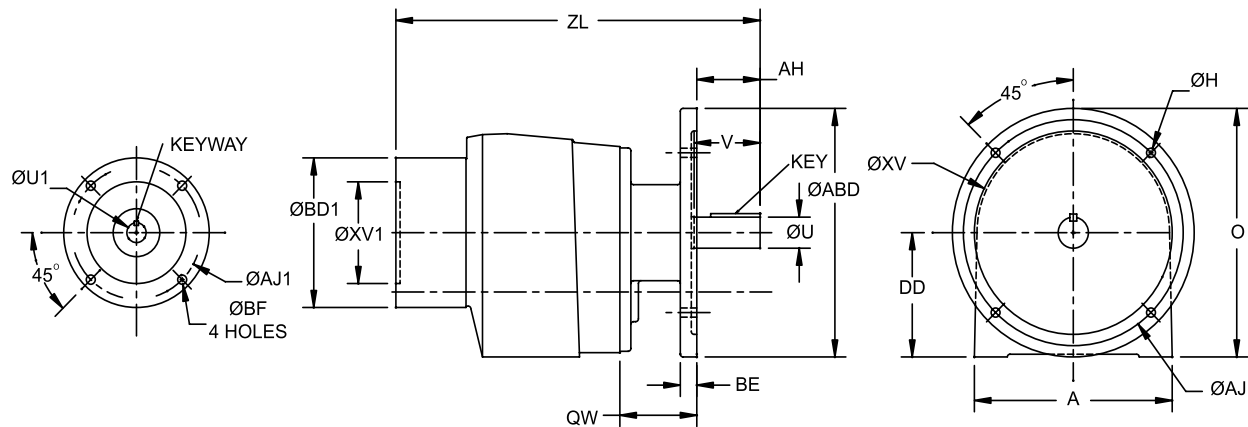
- (1) For NEMA 56C
 (2) For NEMA 140TC
 (3) For NEMA 180TC
 (4) For NEMA 210TC
 ♦ +0.000; -0.005
 ■ Usable Shaft Length
 + At highest point
 * +.001; +.002
 ▲ Uses a 3/16 x 3/16 x 1-3/8 Key
 ● +.001; -.003
 ♣ 180TC uses a 1/4 x 1/4 x 1-1/8 Key;
 210TC uses a 5/16 x 5/16 x 1-1/8 Key
 † +.002; -.000

NEMA Frames 56C/ 140TC										
Reducer Size	Wt. (lbs)	O +	AJ	BD	BF	Input Bore		XV1 ●	ZL	
						U1 *	KW ▲			
Single Reduction	SM16A	33	7.88	5.88	6.72	0.625 (1) 0.875 (2)	3/16 x 3/32	4.50	9.38	
	SM21A	44	9.63						11.31	
Double Reduction	DM16A	53	8.47						13.05	
	DM21A	77	9.88						14.75	
	DM28A	167	12.31						18.63	
Triple Reduction	TM16A	78	8.47						17.14	
	TM21A	139	11.06						20.63	
	TM28A	288	14.06						26.38	

NEMA Frame 180TC/210TC											
Reducer Size	180TC Wt (lbs)	210TC Wt (lbs)	O +	AJ	BD	BF	Input Bore		XV1 †	180TC ZL	210TC ZL
							U1 *	KW ♣			
Single Reduction	SM21A	65	75	7.25	9.22	0.53	1.125 (3) 1.375 (4)	1/4 x 1/8 (3) 5/16 x 5/32 (4)	8.50	13.03	13.53
	SM28A	87	97							14.69	15.19
Double Reduction	DM21A	95	105							16.44	16.94
	DM28A	155	165							20.28	20.78
Triple Reduction	TM21A	157	167							22.33	22.83
	TM28A	305	305							28.03	28.53

XL Parallel Reducers

FLANGE MOUNTED



	Reducer Size	AJ	A	XV	AH	DD	BD	BE	H (4) Holes	QW	Output Shaft		
											U ♦	V ■	Key
Double Reduction	DM16A	8.00	8.00	7.25	2.38	4.50	8.75	0.50	0.41	2.63	1.125	2.44	1/4 x 1/4 x 1-3/4
	DM21A	10.00	9.00	9.00	2.88	5.50	11.00	0.75	0.41	3.50	1.375	3.00	5/16 x 5/16 x 2-1/4
Triple Reduction	TM16A	10.00	8.00	9.25	3.13	4.63	11.00	0.75	0.41	4.13	1.375	3.25	5/16 x 5/16 x 2-1/4
	TM21A	12.50	11.00	11.00	4.25	6.63	14.00	0.88	0.53	4.25	2.000	4.31	1/2 x 1/2 x 3

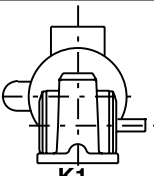
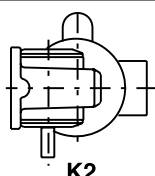
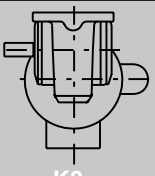
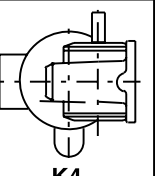
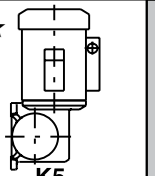
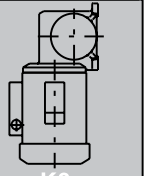
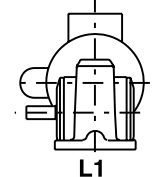
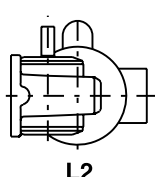
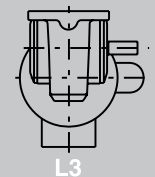
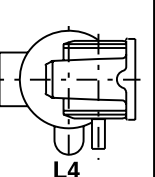
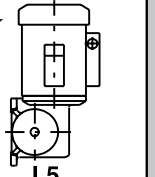
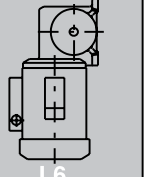
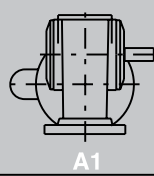
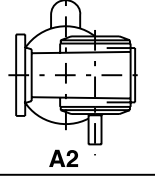
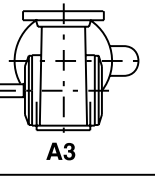
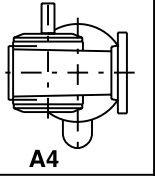
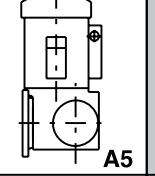
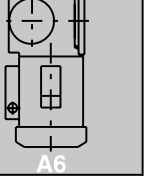
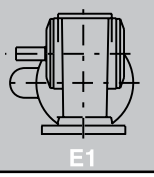
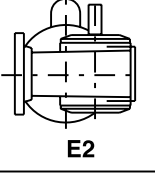
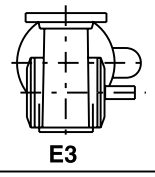
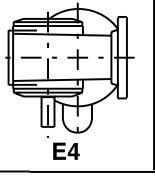
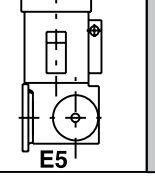
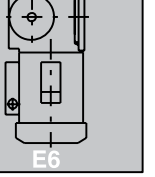
NEMA Frames 56C/ 140TC										
Reducer Size	Wt. (Lbs)	O +	AJ1	BD1	BF	Input Bore		XV1 ●	ZL	
						U1 *	KW ▲			
Double Reduction	DM16A	56	8.88	5.88	6.72	0.41	.625 (1) .875 (2)	3/16 x 3/32	4.50	14.34
	DM21A	78	11.00							16.56
Triple Reduction	TM16A	104	10.13	5.88	6.72	0.41	.625 (1) .875 (2)	3/16 x 3/32	4.50	19.59
	TM21A	151	13.63							22.94

		NEMA Frame 180TC/ 210TC										
	Reducer Size	180TC Wt (lbs)	210TC Wt (lbs)	O +	AJ1	BD1	BF	Input Bore		XV1 †	180TC ZL	210TC ZL
								U1 *	KW ♣			
Double Reduction	DM21A	95	105	11.00	7.25	9.22	0.53	1.125 (3)	1/4 x 1/8 (3) 5/16 x 5/32 (4)	8.50	18.22	18.72
Triple Reduction	TM21A	157	167	13.63							24.59	25.09

Configurations not shown above are not available in flange mounting.

- (1) For NEMA 56C
- (2) For NEMA 140TC
- (3) For NEMA 180TC
- (4) For NEMA 210TC
- ♦ +0.000; -0.005
- Usable Shaft Length
- ✚ At highest point
- * +.001; +.002
- ▲ Uses a 3/16 x 3/16 x 1-3/8 Key
- +.001; -.003
- ♣ 180TC uses a 1/4 x 1/4 x 1-1/8 Key; 210TC uses a 5/16 x 5/16 x 1-1/8 Key
- † +.002; -.000

XL Right Angle

INTEGRALLY CAST FOOT  K-1 SHOWN	 K1	 K2	 K3	 K4	 ★ K5	 ★ K6
	 L1	 L2	 L3	 L4	 ★ L5	 ★ L6
MULTI-MOUNT  A-3 SHOWN	 A1	 A2	 A3	 A4	 A5	 A6
	 E1	 E2	 E3	 E4	 E5	 E6

INCLINED MOUNTING

All of the mounting positions shown are suitable for mounting up to = 5° from the vertical or horizontal axis, without changing oil vent, level and drain plugs. Be sure to specify when ordering, if angle of mounting is known to exceed = 5° such that the oil plugs can be repositioned for proper operation.

★ Countershaft is located on the concealed side of these units.

Note: Dotted Boxes show capacitor and/or conduit box locations when supplied as standard construction.

† Not available in CG40 case

X Reference Surface

Note: Shaded boxes indicate mounting not recommended. These should be avoided. Use of product in positions no recommended negates time-in-use warranty.

XL Right Angle

J-MOUNT  JL-5 SHOWN	★ JK1	 JK2	 JK3	 JK4	★ JK5	★ JK6
	 JL1	† JL2	★ JL3	 JL4	 JL5	 JL6
FLANGE MOUNT  B-2 SHOWN	 B1	 B2	† B3	 B4	 B5	 B6
	 H1	 H2	† H3	 H4	 H5	 H6

INCLINED MOUNTING

All of the mounting positions shown are suitable for mounting up to = 5° from the vertical or horizontal axis, without changing oil vent, level and drain plugs. Be sure to specify when ordering, if angle of mounting is known to exceed = 5° such that the oil plugs can be repositioned for proper operation.

★ Countershaft is located on the concealed side of these units.

Note: Dotted Boxes show capacitor and/or conduit box locations when supplied as standard construction.

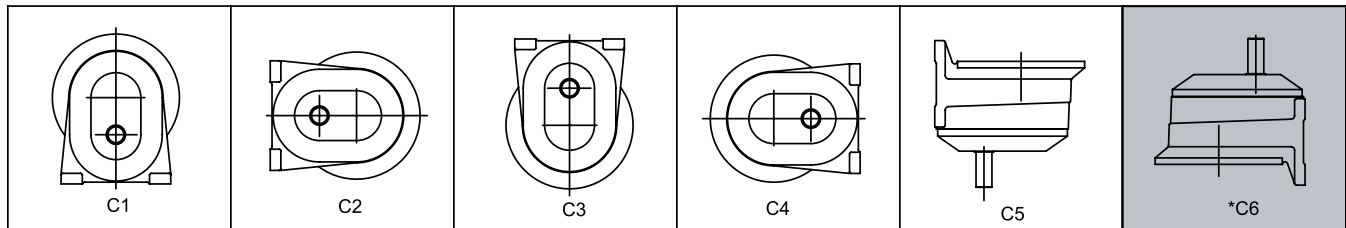
† Not available in CG40 case

X Reference Surface

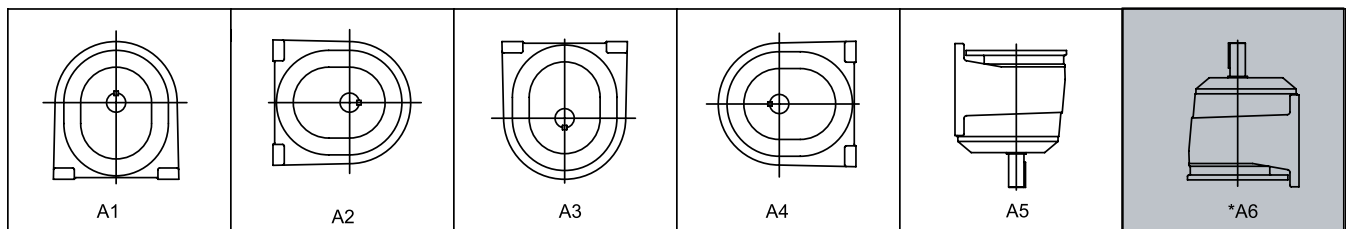
Note: Shaded boxes indicate mounting not recommended. These should be avoided. Use of product in positions not recommended negates time-in-use warranty.

XL Parallel

SINGLE REDUCTION



DOUBLE/TRIPLE REDUCTION



Shaded mounting positions are not recommended due to the oil weight resting on the high speed seal. As the high speed seal wears, there is a potential leak path. Use of product in positions that are not recommended negates the time-in-use warranty.

XL Reducers and Gearmotors

SHIPPING WEIGHTS

RIGHT ANGLE GEARMOTORS

HP							
1/3	56WG12A 36	56CG12A 55	56WG16A 46	56CG16A 77	56CG21A 136	56CG16A 83	
1/2	56WG12A 42	56WG16A 51	56CG16A 81	56WG21A 80	56CG21A 131		
3/4	56WG16A 55	56CG16A 82	56WG21A 78	56CG21A 132	143CG21A 135	143CG28A 283	
1	56WG16A 156	56CG16A 87	56WG21A 86	56CG21A 132			
1	143WG16A 65	143CG16A 89	143WG21A 88	143CG21A 137	143CG28A 258	145CG28A 263	
1 1/2	145WG16A 61	145CG16A 89	145WG21A 90	145CG21A 153	145CG28A 273	182CG28A 315	184CG28A 330
2	145WG21A 296	145CG21A 143	145WG28A 141	145CG28A 269	184CG28A 360	182CG40A 660	
3	182WG21A 142	182CG21A 205	182WG28A 200	182CG28A 310	213CG28A 386	184CG40A 675	
5	184WG28A 218	184CG28A 330	184CG40A 683				
7 1/2	213WG28A 261	213CG28A 395	213WG40A 705	254CG40A 860	213CG40A 755		

WEIGHT ADDITIONS - TO BE ADDED TO ABOVE LISTINGS

GEARCASE	W12	W16	W21	W28	WG40	CG12	CG16	CG21	CG2B	CG40
Multi-Mount J Mount	5	10	20	40	80	6	10	50	60	55
Flange	6	10	18	35	52	6	10	45	50	35

BRAKES

BRAKE	3,6 ft./lb.	10 ft./lb.	15 ft./lb.
WEIGHT	15	15	16

XL Parallel Integral Gearworks

APPROXIMATE SHIPPING WEIGHTS FOR MASTER XL PARALLEL INTEGRAL GEARMOTORS

Weights shown on the chart below are for Three Phase motors. For single phase motors, add 5 lbs. Weights shown are for unit in standard mounting position (A1 or C1) and include the factory filled lubricant.

Unit Size	Motor HP									
	1/3	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10
56SG16A	50	47	51	48	---	---	---	---	---	---
56DG16A	86	74	77	79	---	---	---	---	---	---
56TG16A	106	106	111	133	---	---	---	---	---	---
145SG21A	---	---	---	84	79	90	---	---	---	---
182SG21A	---	---	---	---	97	---	135	---	---	---
184SG21A	---	---	---	---	---	---	---	150	---	---
56DG21A	---	---	---	104	---	---	---	---	---	---
145DG21A	---	---	---	110	108	115	---	---	---	---
182DG21A	---	---	---	---	145	---	160	---	---	---
184DG21A	---	---	---	---	---	150	---	185	---	---
56TG21A	---	184	191	181	---	---	---	---	---	---
145TG21A	---	---	---	---	195	203	---	---	---	---
182TG21A	---	---	---	---	231	---	230	---	---	---
184TG21A	---	---	---	---	---	---	---	255	---	---
184SG28A	---	---	---	---	---	---	---	187	---	---
213SG28A	---	---	---	---	---	---	---	---	231	---
215SG28A	---	---	---	---	---	---	---	---	---	255
182DG28A	---	---	---	---	---	---	300	---	---	---
184DG28A	---	---	---	---	---	---	---	315	---	---
213DG28A	---	---	---	---	---	---	---	---	350	---
215DG28A	---	---	---	---	---	---	---	---	---	363
182TG28A	---	---	---	---	375	---	420	---	---	---
184TG28A	---	---	---	---	---	485	---	397	---	---
213TG28A	---	---	---	---	---	---	471	---	476	---
215TG28A	---	---	---	---	---	---	---	---	---	495

WEIGHT ADDITIONS FOR FLANGED UNITS

Add to above

Unit Size	Weight (lbs)
D16	8
D21	10
T16	10
T21	15

XL Parallel Reducers and Gearmotors

INSTALLATION:

Proper installation of MASTER XL parallel speed reducers and gearmotors will insure reliable service and maximum life. Key items to minimize possible failures include:

- Gear Case Mounting - To insure uniform pressure mount gear case on flat surface. Use uniform torque when mounting bolts are tightened.
- Shaft Overhung Loads - Excessive overhung loads due to over tightening of belts or chains can result in broken shafts and reduce bearing life or failure.
- Couplings - Improper coupling alignment can result in excessive stresses on gear unit shaft and bearings
- Shock Loads - Excessive shock loads can also result in damaging stresses on shafting and bearings.

LUBRICATION:

Proper lubrication of MASTER XL speed reducers is extremely important if long trouble-free operation is to be expected. Proper lubrication consists of:

- Use of proper type and grade of lubricant
- Maintenance of correct oil level
- Drain, flush and refill at the required intervals

MASTER XL speed reducers and gearmotors have been lubricated at the factory for only one mounting position. Before starting, check the mounting position diagrams to make sure that the oil level plug and oil level are in the correct location for which the unit is to be operated. This is extremely important, as insufficient lubricant will damage gears and bearings in a very short time. If any change is necessary, require relocation of the level plug and adding or draining lubricant to insure the proper amount of lubricant is required. The correct amount of oil is important to the performance of a speed reducer. Each MASTER XL speed reducer or gearmotor has a red oil level plug which indicates the proper oil mounting level for a given mounting position. Check the oil level plug location diagrams in the Installation and Instruction Manuals shipped with each reducer or gearmotor.

RECOMMENDED LUBRICANTS:

Use only the best grade of automotive engine lubricants, unless otherwise specified. Where gear units are used outdoors, seasonal changes may be necessary. It is impossible to select one gear lubricant of petroleum origin which is usable over a wide range of temperatures. Use lubricants of the proper group as required by the ambient temperature in which the reducer will operate. The proper grade of oil is listed as follows:

Ambient (Room) Temp.	SAE Grades of Oil For Output Shaft Speeds (in RPM) of:			
	13.5 - 500	501 - 1000	1001 - 3000	3000 +
110°F to 165°F	50 ✦	40	30	20W
60°F to 110°F	40	30	20W	10W
35°F to 70°F	30	20W	10W	10W
10°F to 40°F	20W	10W	10W	---
-10°F to 20°F	10W ☆	☆ ✦	---	---
-30°F to 10°F	☆ ✦	☆ ✦	---	---
-65°F to -20°F	☆ ✦	---	---	---

- ✦ Use SAE 50 heavy duty automotive oil with oxidation inhibitor
- ☆ Use Gulf Paramount Number 22 (A naphthenic base oil with a low pour point and viscosities of 109.8 SUS @ 100°F or 39.1 SUS @ 210°F.) Any other oil meeting these specifications would be a suitable substitute.
- ✦ Use Mobil Oil Co. Avrex number 903.
- ✦ Special oil seals are required for temperatures below 10°F.

MAINTENANCE:

Periodic changing of lubricant is important for maximum reducer or gearmotor performance. Lubricant should be drained and refilled after the first 250 hours of operation; then every 1500 hours or six months thereafter, whichever occurs first.

In addition to lubrication and installation, regular inspection to insure tightness of bolts and screws, correct alignment of shaft couplings, no major oil leaks, no excessive heating and no unusual vibration or noises will guarantee maximum performance and life of your MASTER product.

Combination TIGEAR

Features/Benefits D4-2

Specification D4-4

How To Order D4-8

Nomenclature D4-8

Easy Selection D4-9

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Renewal Parts D4-50

Engineering/Technical D4-68

Introduction

DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

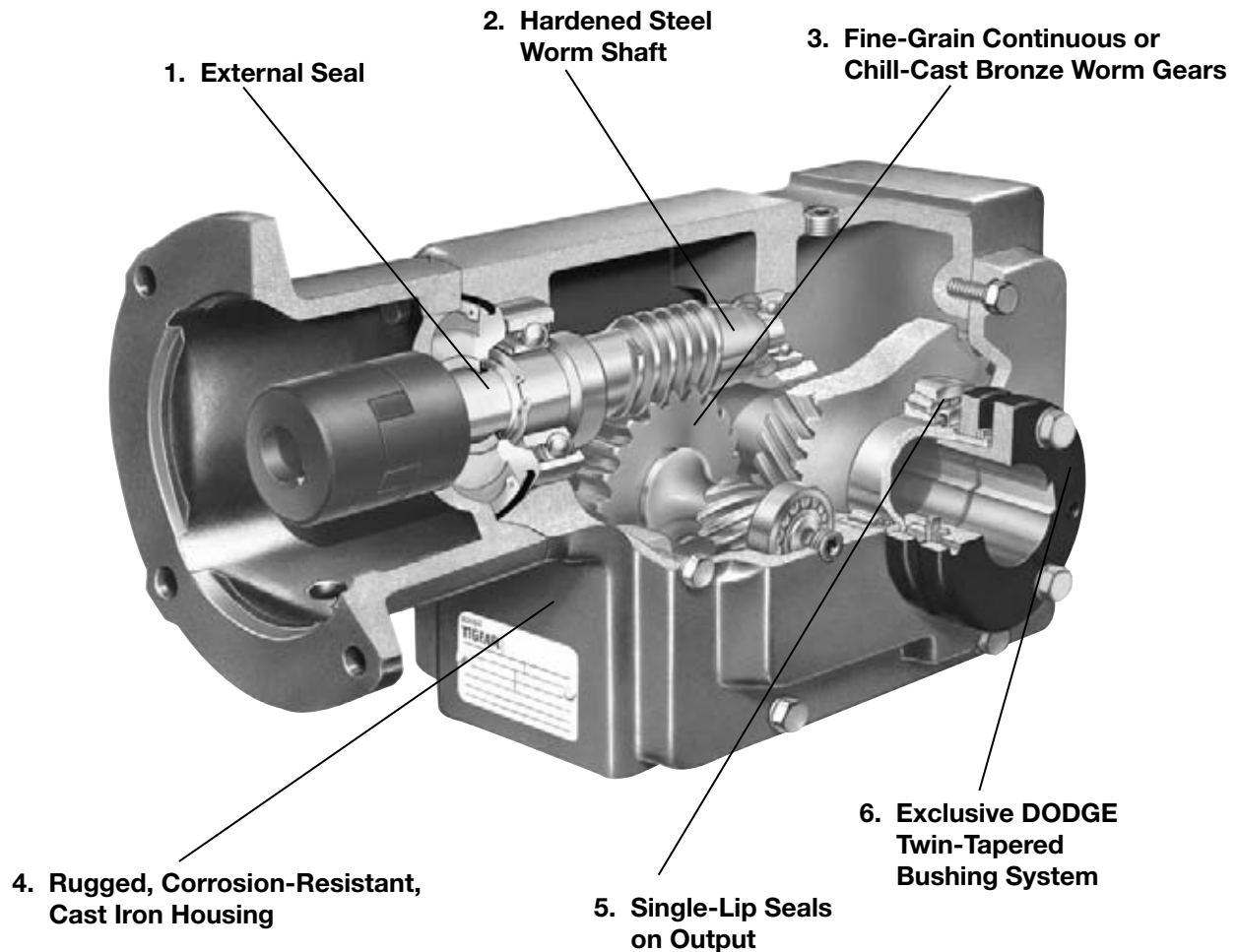
REEVES ULTIMA



FEATURES/BENEFITS

DODGE Combination TIGEAR

A WORM-HELICAL REDUCER DESIGNED WITH FLEXIBILITY AND MAINTENANCE IN MIND



Introduction

DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

DODGE Combination TIGEAR

1. External single lip seal. Runs on precision, plunge ground, 10-20 RMS journal surface.
2. Bellows design compression chamber minimizes gearcase pressure.
Motor adapter removal permits easy access to input worm shaft. Assures simple seal and/or bearing replacement.
3. These worm gears feature copper tin alloy for superior wear resistance, a computer designed gear geometry, and an optimized gear contact pattern for reduced break-in time and maximum thermal performance.
4. A rugged, cast iron housing ensures long years of service, even in corrosive environments. Each model has interchangeable, optional bolt-on feet, which allow industry-standard mounting dimensions.
5. Single lip seals reduce drag on the output shaft for improved efficiency. The plunge ground, 10-20 RMS seal journal surface provides a smooth finish for optimum seal performance.
6. Exclusive twin tapered bushing system provides positive concentric grip on both sides of the reducer. It eliminates wobble, eccentricity, and assures easy installation and removal.

PROVEN RELIALUBE SYSTEM REQUIRES NO PERIODIC MAINTENANCE

- Factory-filled, synthesized hydrocarbon lubricant
- Ambient operating temperature range (-10°F through 165°F)
- Special compression chamber minimizes gearcase pressure
- No open path to the environment
- No conventional vent plugs
- Minimized seepage and contamination paths
- Complete cast iron gearcase

SPECIFICATION

Combination TIGEAR

The speed reducer shall be a double reduction unit incorporating an input worm set and a helical output set. Motor coupling shall be provided by a 3 piece coupling configuration. The reducer shall be manufactured in the United States of America. Wormgear geometry shall be a single enveloping helicoid design. The gearcase, bearing housings, and motor adaptor shall be manufactured from Class 30 gray iron. A bolt on foot shall be available. Output configurations offered shall be solid shaft, hollow shaft straight bore, or hollow shaft with twin tapered bushings.

The reducer shall be sealed with no direct passage from the oil sump to the ambient atmosphere. A compression chamber within the gearcase shall provide pressure relief. Lubrication shall be a factory supplied synthesized hydrocarbon that requires no periodic changes and is filled to a level suitable for the mounting position specified on the order. If no mounting position is specified, the oil level is appropriate for K-1/L-1 only. USDA Class AA, Class H1 food grade, and low temperature lubricants shall be available to accommodate different applications.

The input worm set shall consist of a hardened steel worm shaft and a copper-tin bronze alloy wormgear for superior wear resistance. All units shall have the wormgear set properly centered during assembly to produce an optimum contact pattern. The contact pattern of each set shall be manually checked to ensure that the optimum pattern is present. The output gearset shall be of an involute helical design with case carburized gear teeth. Output shafts shall incorporate tapered roller bearings shimmed for proper running clearances. Seals shall have a rubber coated O.D. and operate on plunge ground journals having a 10-20 µin. finish. Joints shall be sealed with a silicon rubber or anaerobic sealant. No gaskets or O-rings shall be used. All fasteners shall be minimum grade 8.8 metric. Motor mounting bolts and input/output keys shall be provided.

The standard construction shall be suitable for duty in ambient temperatures from -10°F to +165°F. When used without the bolt-on foot, the reducer shall be BISSC certified. Severe operating conditions shall be addressed with a Nylon 11 coated gearcase incorporating stainless steel hardware and nickel plated output shaft extensions or Teflon coated twin tapered bushings.

Combination TIGEAR

How To Order TIGEAR Reducers

All TIGEAR reducers and accessories have a part number. Reducer part numbers are found in the selection tables and the accessories are listed in the modification section of this catalog. Refer to the part numbers when ordering and specify the reducer part number along with the part numbers of the required accessories.

140C200T025S1A 140TC C-Face, Size C200, 25:1, Taper Hollow Shaft (Page G4-18)

6002503 Size C200 Tie Rod kit (Page G4-34)

MOTOR FRAME	SERIES	SIZE	OUTPUT TYPE	RATIO	SHAFT POSITION
056	C	150	B BASIC UNIT STD SHAFT	010	L1
140		200		015	K1
180		262	S SHAFT MOUNT STRAIGHT BORE	018	LK
210		350		020	S1
			T SHAFT MOUNT TWIN TAPERED	025	
				030	
				038	
				040	
				050	
				060	
				075	
				080	
				090	
				100	
				125	
				150	
				160	
				200	
				240	
				300	

Combination TIGEAR

Combination Tigear Easy Selection Tables

In the following tables, Combination TIGEAR reducers have been pre-selected for standard motor horse powers at commonly applied service factors. All selections are for 1750 rpm motors. For selections at other motor speeds refer to the selection procedure using the rating tables. Each block in the selection table provides the following information:

- **Gearcase Size** Worm set center distance. For example, a C150 has a 1.50" worm center distance.
- **Output Torque** Torque that will be produced at the output shaft when the particular motor is loaded to its nameplate rated horsepower.
- **Output OHL** The continuous overhung load that may be applied to the output shaft at one shaft diameter from the seal face.

Two methods are available to the designer using the selection tables. The horsepower method, applied in cases where motor horsepower is known, is useful when interchanging with a competitive unit or utilizing

an available motor. The torque method requires the knowledge of driven load requirement and provides the most economical reducer selection. Both methods assume the desired ratio or output rpm is known.

HORSEPOWER METHOD OF SELECTION

- Step 1:** Referring to the reducer service factor table, determine the appropriate service factor.
- Step 2:** Locate the selection table configured for the required service factor.
- Step 3:** Read down from motor horsepower and across from rpm/ratio to locate the appropriate selection block.

TORQUE METHOD OF SELECTION

- Step 1:** Referring to the reducer service factor table, determine the appropriate service factor.
- Step 2:** Locate the selection table configured for the required service factor.
- Step 3:** Find the row that represents the applicable output rpm/ratio and read across the torque line until the torque value equals or exceeds driven load requirements.
- Step 4:** Read up from the selection block to determine required motor horsepower.

EASY SELECTION

Combination TIGEAR

1.00 Reducer Service Factor
1750 RPM Input

RPM Out	Nom. Ratio*	Motor Horsepower											
			0.25	0.33	0.50	0.75	1	1.50	2	3	5	7.50	10
156	10	SIZE	150	150	150	150	150	150	200	200	262	350	350
		Torque	68 lb in	96 lb in	157 lb in	247 lb in	336 lb in	515 lb in	723 lb in	1096 lb in	1861 lb in	2767 lb in	3706 lb in
		OHL	896 lb	896 lb	896 lb	896 lb	896 lb	896 lb	1306 lb	1306 lb	2220 lb	4653 lb	4653 lb
125	15	SIZE	150	150	150	150	150	150	200	200	262	350	350
		Torque	85 lb in	121 lb in	198 lb in	310 lb in	423 lb in	648 lb in	893 lb in	1353 lb in	2285 lb in	3417 lb in	4576 lb in
		OHL	910 lb	910 lb	910 lb	910 lb	910 lb	910 lb	1325 lb	1325 lb	2283 lb	4726 lb	4726 lb
105	18	SIZE	150	150	150	150	150	150	200	200	262	350	350
		Torque	102 lb in	145 lb in	236 lb in	371 lb in	505 lb in	774 lb in	1066 lb in	1615 lb in	2729 lb in	4079 lb in	5463 lb in
		OHL	920 lb	920 lb	920 lb	920 lb	920 lb	920 lb	1339 lb	1339 lb	2371 lb	4785 lb	4785 lb
86	20	SIZE	150	150	150	150	150	150	200	200	262	350	350
		Torque	124 lb in	176 lb in	288 lb in	451 lb in	614 lb in	941 lb in	1297 lb in	1965 lb in	3320 lb in	4963 lb in	6647 lb in
		OHL	930 lb	930 lb	930 lb	930 lb	930 lb	930 lb	1352 lb	1352 lb	2436 lb	4800 lb	4800 lb
69	25	SIZE	150	150	150	150	150	150	200	200	262	350	350
		Torque	155 lb in	220 lb in	359 lb in	563 lb in	768 lb in	1176 lb in	1620 lb in	2455 lb in	4148 lb in	6201 lb in	8304 lb in
		OHL	938 lb	938 lb	938 lb	938 lb	938 lb	938 lb	1361 lb	1361 lb	2491 lb	4717 lb	4717 lb
58	30	SIZE	150	150	150	150	150	200	200	262	350	350	
		Torque	189 lb in	266 lb in	430 lb in	672 lb in	914 lb in	1411 lb in	1901 lb in	2902 lb in	4872 lb in	7368 lb in	
		OHL	970 lb	970 lb	970 lb	970 lb	970 lb	1410 lb	1410 lb	2751 lb	4925 lb	4925 lb	
46	38	SIZE	150	150	150	150	150	200	200	262	350	350	
		Torque	236 lb in	332 lb in	538 lb in	840 lb in	1142 lb in	1763 lb in	2376 lb in	3625 lb in	6087 lb in	9205 lb in	
		OHL	979 lb	979 lb	979 lb	979 lb	979 lb	1421 lb	1421 lb	2781 lb	4823 lb	4823 lb	
43	40	SIZE	150	150	150	150	150	200	200	262	350		
		Torque	246 lb in	346 lb in	560 lb in	875 lb in	1190 lb in	1849 lb in	2489 lb in	3804 lb in	6397 lb in		
		OHL	981 lb	981 lb	981 lb	981 lb	981 lb	1423 lb	1423 lb	2786 lb	5197 lb		
35	50	SIZE	150	150	150	150	150	200	200	262	350		
		Torque	307 lb in	433 lb in	700 lb in	1093 lb in	1487 lb in	2310 lb in	3109 lb in	4753 lb in	7992 lb in		
		OHL	985 lb	985 lb	985 lb	985 lb	985 lb	1425 lb	1425 lb	2805 lb	5154 lb		
29	60	SIZE	150	150	150	150	200	200	262	350	350		
		Torque	360 lb in	504 lb in	811 lb in	1261 lb in	1746 lb in	2665 lb in	3647 lb in	5504 lb in	9300 lb in		
		OHL	1013 lb	1013 lb	1013 lb	1013 lb	1472 lb	1472 lb	2910 lb	5064 lb	5064 lb		

Refer to page G4-57 for exact ratio

Combination TIGEAR

1.00 Reducer Service Factor
1750 RPM Input

RPM Out	Nom. Ratio*	Motor Horsepower											
			0.25	0.33	0.50	0.75	1	1.50	2	3	5	7.50	10
23	75	SIZE	150	150	150	150	200	200	262	350	350		
		Torque	450 lb in	630 lb in	1012 lb in	1575 lb in	2181 lb in	3329 lb in	4556 lb in	6876 lb in	11619 lb in		
		OHL	1020 lb	1020 lb	1020 lb	1020 lb	1470 lb	1470 lb	2933 lb	5501 lb	5501 lb		
22	80	SIZE	150	150	150	150	200	262	350	350			
		Torque	466 lb in	648 lb in	1034 lb in	1603 lb in	2231 lb in	3398 lb in	4642 lb in	7073 lb in			
		OHL	1023 lb	1023 lb	1023 lb	1023 lb	1537 lb	2932 lb	5542 lb	5542 lb			
19	90	SIZE	150	150	150	200	200	262	350	350			
		Torque	548 lb in	763 lb in	1222 lb in	1863 lb in	2529 lb in	3373 lb in	4646 lb in	7078 lb in			
		OHL	1063 lb	1063 lb	1063 lb	1542 lb	1542 lb	2937 lb	5481 lb	5481 lb			
17	100	SIZE	150	150	150	200	200	262	350	350			
		Torque	582 lb in	810 lb in	1292 lb in	2057 lb in	2787 lb in	4057 lb in	5800 lb in	8836 lb in			
		OHL	1070 lb	1070 lb	1070 lb	1544 lb	1544 lb	2937 lb	5462 lb	5462 lb			
14	125	SIZE	150	150	150	200	200	262	350	350			
		Torque	626 lb in	868 lb in	1383 lb in	2490 lb in	3372 lb in	4936 lb in	7062 lb in	10759 lb in			
		OHL	1081 lb	1081 lb	1081 lb	1545 lb	1545 lb	3039 lb	5339 lb	5339 lb			
12	150	SIZE	150	150	150	200	262	262	350	350			
		Torque	783 lb in	1085 lb in	1728 lb in	2792 lb in	4037 lb in	6151 lb in	8248 lb in	12567 lb in			
		OHL	1082 lb	1082 lb	1082 lb	1607 lb	3051 lb	3051 lb	5207 lb	5207 lb			
11	160	SIZE	150	150	200	200	262	262	350				
		Torque	796 lb in	1100 lb in	1823 lb in	2813 lb in	3946 lb in	6002 lb in	8146 lb in				
		OHL	1133 lb	1133 lb	1667 lb	1667 lb	3195 lb	3195 lb	5829 lb				
8.60	200	SIZE	150	150	200	200	262	350	350				
		Torque	995 lb in	1374 lb in	2277 lb in	3514 lb in	4930 lb in	7526 lb in	10177 lb in				
		OHL	1142 lb	1142 lb	1681 lb	1681 lb	3220 lb	5766 lb	5766 lb				
7.20	240	SIZE	150	200	262	262	350	350					
		Torque	1091 lb in	1576 lb in	2600 lb in	3998 lb in	5428 lb in	8331 lb in					
		OHL	1140 lb	1745 lb	3326 lb	3326 lb	5731 lb	5731 lb					
5.80	300	SIZE	150	200	262	262	350	350					
		Torque	1362 lb in	1969 lb in	3248 lb in	4994 lb in	6782 lb in	10408 lb in					
		OHL	1136 lb	1767 lb	3353 lb	3353 lb	5976 lb	5976 lb					

* Refer to page G4-57 for exact ratio

EASY SELECTION

Combination TIGEAR

**1.25 Reducer Service Factor
1750 RPM Input**

RPM Out	Nom. Ratio*	Motor Horsepower											
			0.25	0.33	0.50	0.75	1	1.50	2	3	5	7.50	10
156	10	SIZE	150	150	150	150	150	200	200	262	350	350	
		Torque	68 lb in	96 lb in	157 lb in	247 lb in	336 lb in	537 lb in	723 lb in	1106 lb in	1828 lb in	2767 lb in	
		OHL	896 lb	896 lb	896 lb	896 lb	896 lb	1306 lb	1306 lb	2220 lb	4653 lb	4653 lb	
125	15	SIZE	150	150	150	150	150	200	200	262	350	350	
		Torque	85 lb in	121 lb in	198 lb in	310 lb in	423 lb in	663 lb in	893 lb in	1358 lb in	2258 lb in	3417 lb in	
		OHL	910 lb	910 lb	910 lb	910 lb	910 lb	1325 lb	1325 lb	2283 lb	4726 lb	4726 lb	
105	18	SIZE	150	150	150	150	150	200	200	262	350	350	
		Torque	102 lb in	145 lb in	236 lb in	371 lb in	505 lb in	791 lb in	1066 lb in	1622 lb in	2696 lb in	4079 lb in	
		OHL	920 lb	920 lb	920 lb	920 lb	920 lb	1339 lb	1339 lb	2371 lb	4785 lb	4785 lb	
86	20	SIZE	150	150	150	150	150	200	200	262	350	350	
		Torque	124 lb in	176 lb in	288 lb in	451 lb in	614 lb in	963 lb in	1297 lb in	1973 lb in	3280 lb in	4963 lb in	
		OHL	930 lb	930 lb	930 lb	930 lb	930 lb	1352 lb	1352 lb	2436 lb	4800 lb	4800 lb	
69	25	SIZE	150	150	150	150	150	200	200	262	350	350	
		Torque	155 lb in	220 lb in	359 lb in	563 lb in	768 lb in	1203 lb in	1620 lb in	2465 lb in	4097 lb in	6201 lb in	
		OHL	938 lb	938 lb	938 lb	938 lb	938 lb	1361 lb	1361 lb	2491 lb	4717 lb	4717 lb	
58	30	SIZE	150	150	150	150	200	200	262	262	350		
		Torque	189 lb in	266 lb in	430 lb in	672 lb in	921 lb in	1411 lb in	1913 lb in	2902 lb in	4872 lb in		
		OHL	970 lb	970 lb	970 lb	970 lb	1410 lb	1410 lb	2751 lb	2751 lb	4925 lb		
46	38	SIZE	150	150	150	150	200	200	262	262	350		
		Torque	236 lb in	332 lb in	538 lb in	840 lb in	1151 lb in	1763 lb in	2390 lb in	3625 lb in	6087 lb in		
		OHL	979 lb	979 lb	979 lb	979 lb	1421 lb	1421 lb	2781 lb	2781 lb	4823 lb		
43	40	SIZE	150	150	150	150	200	200	262	262	350		
		Torque	246 lb in	346 lb in	560 lb in	875 lb in	1209 lb in	1849 lb in	2510 lb in	3804 lb in	6397 lb in		
		OHL	981 lb	981 lb	981 lb	981 lb	1423 lb	1423 lb	2786 lb	2786 lb	5197 lb		
35	50	SIZE	150	150	150	150	200	200	262	262	350		
		Torque	307 lb in	433 lb in	700 lb in	1093 lb in	1511 lb in	2310 lb in	3136 lb in	4753 lb in	7992 lb in		
		OHL	985 lb	985 lb	985 lb	985 lb	1425 lb	1425 lb	2805 lb	2805 lb	5154 lb		
29	60	SIZE	150	150	150	200	200	262	262	350			
		Torque	360 lb in	504 lb in	811 lb in	1287 lb in	1746 lb in	2712 lb in	3647 lb in	5504 lb in			
		OHL	1013 lb	1013 lb	1013 lb	1472 lb	1472 lb	2910 lb	2910 lb	5064 lb			

* Refer to page G4-57 for exact ratio

Combination TIGEAR

1.25 Reducer Service Factor
1750 RPM Input

RPM Out	Nom. Ratio*	Motor Horsepower											
			0.25	0.33	0.50	0.75	1	1.50	2	3	5	7.50	10
23	75	SIZE	150	150	150	200	200	262	350	350			
		Torque	450 lb in	630 lb in	1012 lb in	1607 lb in	2181 lb in	3388 lb in	4505 lb in	6876 lb in			
		OHL	1020 lb	1020 lb	1020 lb	1470 lb	1470 lb	2933 lb	2933 lb	5501 lb			
22	80	SIZE	150	150	150	200	262	350	350	350			
		Torque	466 lb in	648 lb in	1034 lb in	1647 lb in	2230 lb in	3427 lb in	4642 lb in	7073 lb in			
		OHL	1023 lb	1023 lb	1023 lb	1537 lb	2932 lb	5542 lb	5542 lb	5542 lb			
19	90	SIZE	150	150	200	200	200	350	350	350			
		Torque	548 lb in	763 lb in	1198 lb in	1863 lb in	2529 lb in	3430 lb in	4646 lb in	7078 lb in			
		OHL	1063 lb	1063 lb	1542 lb	1542 lb	1542 lb	5481 lb	5481 lb	5481 lb			
17	100	SIZE	150	150	150	200	262	350	350	350			
		Torque	582 lb in	810 lb in	1292 lb in	2057 lb in	2663 lb in	4281 lb in	5800 lb in	8836 lb in			
		OHL	1070 lb	1070 lb	1070 lb	1544 lb	2937 lb	5462 lb	5462 lb	5462 lb			
14	125	SIZE	150	150	200	200	262	350	350				
		Torque	626 lb in	868 lb in	1608 lb in	2490 lb in	3240 lb in	5213 lb in	7062 lb in				
		OHL	1081 lb	1081 lb	1545 lb	1545 lb	3039 lb	5339 lb	5339 lb				
12	150	SIZE	150	150	200	262	262	350	350				
		Torque	783 lb in	1085 lb in	1804 lb in	2980 lb in	4037 lb in	6089 lb in	8248 lb in				
		OHL	1082 lb	1082 lb	1607 lb	3051 lb	3051 lb	5207 lb	5207 lb				
11	160	SIZE	150	150	200	262	262	350	350				
		Torque	796 lb in	1100 lb in	1823 lb in	2919 lb in	3946 lb in	6024 lb in	8146 lb in				
		OHL	1133 lb	1133 lb	1667 lb	3195 lb	3195 lb	5829 lb	5829 lb				
8.60	200	SIZE	150	150	200	262	262	350	350				
		Torque	995 lb in	1374 lb in	2277 lb in	3646 lb in	4930 lb in	7526 lb in	10177 lb in				
		OHL	1142 lb	1142 lb	1681 lb	3220 lb	3220 lb	5766 lb	5766 lb				
7.20	240	SIZE	200	200	262	350	350	350					
		Torque	1150 lb in	1576 lb in	2600 lb in	4058 lb in	5428 lb in	8331 lb in					
		OHL	1745 lb	1745 lb	3326 lb	3326 lb	5731 lb	5731 lb					
5.80	300	SIZE	200	200	262	350	350	350					
		Torque	1437 lb in	1969 lb in	3248 lb in	5070 lb in	6782 lb in	10408 lb in					
		OHL	1767 lb	1767 lb	3353 lb	3353 lb	5976 lb	5976 lb					

* Refer to page G4-57 for exact ratio

EASY SELECTION

Combination TIGEAR

1.50 Reducer Service Factor 1750 RPM Input

RPM Out	Nom. Ratio*	Motor Horsepower											
			0.25	0.33	0.50	0.75	1	1.50	2	3	5	7.50	10
156	10	SIZE	150	150	150	150	150	200	200	262	350		
		Torque	68 lb in	96 lb in	157 lb in	247 lb in	336 lb in	537 lb in	723 lb in	1106 lb in	1828 lb in		
		OHL	896 lb	896 lb	896 lb	896 lb	896 lb	1306 lb	1306 lb	2220 lb	4653 lb		
125	15	SIZE	150	150	150	150	150	200	200	262	350		
		Torque	85 lb in	121 lb in	198 lb in	310 lb in	423 lb in	663 lb in	893 lb in	1358 lb in	2258 lb in		
		OHL	910 lb	910 lb	910 lb	910 lb	910 lb	1325 lb	1325 lb	2283 lb	4726 lb		
105	18	SIZE	150	150	150	150	150	200	200	262	350		
		Torque	102 lb in	145 lb in	236 lb in	371 lb in	505 lb in	791 lb in	1066 lb in	1622 lb in	2696 lb in		
		OHL	920 lb	920 lb	920 lb	920 lb	920 lb	1339 lb	1339 lb	2371 lb	4785 lb		
86	20	SIZE	150	150	150	150	150	200	200	262	350		
		Torque	124 lb in	176 lb in	288 lb in	451 lb in	614 lb in	963 lb in	1297 lb in	1973 lb in	3280 lb in		
		OHL	930 lb	930 lb	930 lb	930 lb	930 lb	1352 lb	1352 lb	2436 lb	4800 lb		
69	25	SIZE	150	150	150	150	150	200	200	262	350		
		Torque	155 lb in	220 lb in	359 lb in	563 lb in	768 lb in	1203 lb in	1620 lb in	2465 lb in	4097 lb in		
		OHL	938 lb	938 lb	938 lb	938 lb	938 lb	1361 lb	1361 lb	2491 lb	4717 lb		
58	30	SIZE	150	150	150	150	200	262	262	262	350		
		Torque	189 lb in	266 lb in	430 lb in	672 lb in	921 lb in	1419 lb in	1913 lb in	2902 lb in	4872 lb in		
		OHL	970 lb	970 lb	970 lb	970 lb	1410 lb	2751 lb	2751 lb	2751 lb	4925 lb		
46	38	SIZE	150	150	150	150	200	262	262	262	350		
		Torque	236 lb in	332 lb in	538 lb in	840 lb in	1151 lb in	1773 lb in	2390 lb in	3625 lb in	6087 lb in		
		OHL	979 lb	979 lb	979 lb	979 lb	1421 lb	2781 lb	2781 lb	2781 lb	4823 lb		
43	40	SIZE	150	150	150	150	200	262	262	350			
		Torque	246 lb in	346 lb in	560 lb in	875 lb in	1209 lb in	1863 lb in	2510 lb in	3781 lb in			
		OHL	981 lb	981 lb	981 lb	981 lb	1423 lb	2786 lb	2786 lb	5197 lb			
35	50	SIZE	150	150	150	150	200	262	262	350			
		Torque	307 lb in	433 lb in	700 lb in	1093 lb in	1511 lb in	2328 lb in	3136 lb in	4724 lb in			
		OHL	985 lb	985 lb	985 lb	985 lb	1425 lb	2805 lb	2805 lb	5154 lb			
29	60	SIZE	150	150	150	200	200	262	350	350			
		Torque	360 lb in	504 lb in	811 lb in	1287 lb in	1746 lb in	2712 lb in	3606 lb in	5504 lb in			
		OHL	1013 lb	1013 lb	1013 lb	1472 lb	1472 lb	2910 lb	5064 lb	5064 lb			

* Refer to page G4-57 for exact ratio

Combination TIGEAR

1.50 Reducer Service Factor
1750 RPM Input

RPM Out	Nom. Ratio*	Motor Horsepower											
			0.25	0.33	0.50	0.75	1	1.50	2	3	5	7.50	10
156	10	SIZE	150	150	150	150	150	200	200	262	350		
		Torque	68 lb in	96 lb in	157 lb in	247 lb in	336 lb in	537 lb in	723 lb in	1106 lb in	1828 lb in		
		OHL	896 lb	896 lb	896 lb	896 lb	896 lb	1306 lb	1306 lb	2220 lb	4653 lb		
125	15	SIZE	150	150	150	150	150	200	200	262	350		
		Torque	85 lb in	121 lb in	198 lb in	310 lb in	423 lb in	663 lb in	893 lb in	1358 lb in	2258 lb in		
		OHL	910 lb	910 lb	910 lb	910 lb	910 lb	1325 lb	1325 lb	2283 lb	4726 lb		
105	18	SIZE	150	150	150	150	150	200	200	262	350		
		Torque	102 lb in	145 lb in	236 lb in	371 lb in	505 lb in	791 lb in	1066 lb in	1622 lb in	2696 lb in		
		OHL	920 lb	920 lb	920 lb	920 lb	920 lb	1339 lb	1339 lb	2371 lb	4785 lb		
86	20	SIZE	150	150	150	150	150	200	200	262	350		
		Torque	124 lb in	176 lb in	288 lb in	451 lb in	614 lb in	963 lb in	1297 lb in	1973 lb in	3280 lb in		
		OHL	930 lb	930 lb	930 lb	930 lb	930 lb	1352 lb	1352 lb	2436 lb	4800 lb		
69	25	SIZE	150	150	150	150	150	200	200	262	350		
		Torque	155 lb in	220 lb in	359 lb in	563 lb in	768 lb in	1203 lb in	1620 lb in	2465 lb in	4097 lb in		
		OHL	938 lb	938 lb	938 lb	938 lb	938 lb	1361 lb	1361 lb	2491 lb	4717 lb		
58	30	SIZE	150	150	150	150	200	262	262	262	350		
		Torque	189 lb in	266 lb in	430 lb in	672 lb in	921 lb in	1419 lb in	1913 lb in	2902 lb in	4872 lb in		
		OHL	970 lb	970 lb	970 lb	970 lb	1410 lb	2751 lb	2751 lb	2751 lb	4925 lb		
46	38	SIZE	150	150	150	150	200	262	262	262	350		
		Torque	236 lb in	332 lb in	538 lb in	840 lb in	1151 lb in	1773 lb in	2390 lb in	3625 lb in	6087 lb in		
		OHL	979 lb	979 lb	979 lb	979 lb	1421 lb	2781 lb	2781 lb	2781 lb	4823 lb		
43	40	SIZE	150	150	150	150	200	262	262	350			
		Torque	246 lb in	346 lb in	560 lb in	875 lb in	1209 lb in	1863 lb in	2510 lb in	3781 lb in			
		OHL	981 lb	981 lb	981 lb	981 lb	1423 lb	2786 lb	2786 lb	5197 lb			
35	50	SIZE	150	150	150	150	200	262	262	350			
		Torque	307 lb in	433 lb in	700 lb in	1093 lb in	1511 lb in	2328 lb in	3136 lb in	4724 lb in			
		OHL	985 lb	985 lb	985 lb	985 lb	1425 lb	2805 lb	2805 lb	5154 lb			
29	60	SIZE	150	150	150	200	200	262	350	350			
		Torque	360 lb in	504 lb in	811 lb in	1287 lb in	1746 lb in	2712 lb in	3606 lb in	5504 lb in			
		OHL	1013 lb	1013 lb	1013 lb	1472 lb	1472 lb	2910 lb	5064 lb	5064 lb			

* Refer to page G4-57 for exact ratio

Combination TIGEAR

Selection Using Rating Tables

Because the efficiency of worm gear speed reducers varies from approximately 60 to 90%, it is important to consider the horsepower/torque conditions at both input and output in a given application. In a situation where motor horsepower is known (e.g., competitive

interchange or when a particular motor is available), selection can be done based on input ratings. Where a gearbox is being selected by a designer who knows driven equipment loads, the reducer is selected from the output torque capacity.

Horsepower Method Of Selection

Step 1: Determine Service Factor by referring to the reducer service factor table. Read the appropriate service factor.

Step 2: To determine Equivalent Horsepower, multiply the motor horsepower by the service factor obtained in Step 1.

Step 3: To calculate the required Ratio, divide the motor shaft rpm by the reducer output shaft rpm.

Step 4: To determine the Unit Size, refer to the rating tables and read across from the ratio row and down from the motor rpm column to select a unit whose mechanical input horsepower rating meets or exceeds the equivalent horsepower.

Reducer Service Factors

Prime Mover	Duration of Service Per Day	Driven Machine Load Classification		
		Uniform	Medium Shock	Heavy Shock
Electric Motor	Occasional 1/2 hour	0.80	0.90	1.00
	Intermittent 2 hours	0.90	1.00	1.25
	10 hours	1.00	1.25	1.50
	24 hours	1.25	1.50	1.75
Electric Motor with frequent Starts and Stops	Occasional 1/2 hour	0.90	1.00	1.25
	Intermittent 2 hours	1.00	1.25	1.50
	10 hours	1.25	1.50	1.75
	24 hours	1.50	1.75	2.00

Overhung Load

To determine overhung load, divide the torque required by the pitch radius of the sprocket, sheave, etc. and multiply by the appropriate factor as follows:

Chain Drive	1.00
Synchronous Belt Drive	1.10
Spur or Helical Gear	1.25
V-Belt	1.50
Flat Belt	2.50

The calculated overhung load must not exceed the output overhung load rating.

For loads acting a more than one shaft diameter from the seal face, use the following conversion factors:

Distance in Shaft diameters from Output Seal Face	Multiply Overhung Load Capacity by this Factor
1D	1.00
2D	0.65
3D	0.45
4D	0.35
5D	0.30

Combination TIGEAR

Torque Method Of Selection

- Step 1: Determine Service Factor** Referring to the reducer service factor table (page G4-16), determine the appropriate service factor.
- Step 2: Determine Equivalent Torque** Multiply the torque required to drive the load at the output of the reducer by the service factor obtained in Step 1. (If drive components, e.g. chain or belt drives, are used between reducer and driven equipment be sure to account for them when calculating output torque at the reducer.)
- Step 3: Calculate Required Ratio** Divide the motor shaft rpm by the reducer output shaft rpm.
- Step 4: Determine Unit Size** Refer to the rating tables and read across from ratio row and down from motor rpm column to select a unit whose mechanical output torque rating meets or exceeds the equivalent torque.
- Step 5: Determine Required Motor Horsepower** First, calculate the output horsepower using the following equation, where output torque is the torque required to drive the load at the output of the reducer:

$$\text{Output HP} = \frac{\text{Output Speed} \times \text{Output Torque}}{63025}$$

Then calculate the required motor horsepower using the following equation to account for reducer efficiency:

$$\text{Required Motor Horsepower} = \frac{\text{Output Hp} \times \text{Rated Input Hp}}{\text{Rated Output Hp}}$$

- Step 6: Select Motor Hp** From available motors, select a horsepower that is equal to or greater than the value from Step 5: When the nearest motor horsepower is greater, check service factor at input by dividing rated input horsepower by actual motor horsepower. If the service factor is less than the value from Step 1, a larger reducer may be required.

SELECTION

Combination TIGEAR Size C150

Ratio	Rating Data	Input RPM					Part Numbers		Shaft Position
		2500	1750	1450	1170	870	56C	140TC	
7.50	Output RPM	341	239	198	160	119	056C150T007S1A	140C150T007S1A	Taper Hollow
	Mechanical Input HP	1.99	1.52	1.32	1.12	0.85	056C150S007S1A	140C150S007S1A	Str. Hollow
	Output Torque (lb. in.)	318	345	358	375	376	056C150B007K1A	140C150B007K1A	K1
	Output HP Rating	1.72	1.31	1.12	0.95	0.71	056C150B007L1A	140C150B007L1A	L1
	Output OHL (lbs.)	843	866	877	889	903	056C150B007LKA	140C150B007LKA	LK
9.40	Output RPM	271	190	157	127	94	056C150T009S1A	140C150T009S1A	Taper Hollow
	Mechanical Input HP	1.99	1.52	1.32	1.12	0.85	056C150S009S1A	140C150S009S1A	Str. Hollow
	Output Torque (lb. in.)	400	434	451	472	473	056C150B009K1A	140C150B009K1A	K1
	Output HP Rating	1.72	1.31	1.12	0.95	0.71	056C150B009L1A	140C150B009L1A	L1
	Output OHL (lbs.)	854	882	898	916	942	056C150B009LKA	140C150B009LKA	LK
10	Output RPM	225.50	157.80	130.80	105.10	78.47	056C150T010S1A	140C150T010S1A	Taper Hollow
	Mechanical Input HP	2.01	1.52	1.32	1.12	0.85	056C150S010S1A	140C150S010S1A	Str. Hollow
	Output Torque (lb. in.)	487	522	542	567	568	056C150B010K1A	140C150B010K1A	K1
	Output HP Rating	1.74	1.31	1.12	0.95	0.71	056C150B010L1A	140C150B010L1A	L1
	Output OHL (lbs.)	867	896	919	933	960	056C150B010LKA	140C150B010LKA	LK
15	Output RPM	179.10	125.40	103.90	83.82	62.33	056C150T015S1A	140C150T015S1A	Taper Hollow
	Mechanical Input HP	2.01	1.52	1.32	1.12	0.85	056C150S015S1A	140C150S015S1A	Str. Hollow
	Output Torque (lb. in.)	613	657	682	714	716	056C150B015K1A	140C150B015K1A	K1
	Output HP Rating	1.74	1.31	1.12	0.95	0.71	056C150B015L1A	140C150B015L1A	L1
	Output OHL (lbs.)	881	910	935	948	976	056C150B015LKA	140C150B015LKA	LK
18	Output RPM	150.00	105.00	87.00	70.20	52.20	056C150T018S1A	140C150T018S1A	Taper Hollow
	Mechanical Input HP	2.01	1.52	1.32	1.12	0.85	056C150S018S1A	140C150S018S1A	Str. Hollow
	Output Torque (lb. in.)	732	784	815	852	854	056C150B018K1A	140C150B018K1A	K1
	Output HP Rating	1.74	1.31	1.12	0.95	0.71	056C150B018L1A	140C150B018L1A	L1
	Output OHL (lbs.)	891	920	947	959	987	056C150B018LKA	140C150B018LKA	LK
20	Output RPM	123.30	86.30	71.51	57.70	42.90	056C150T020S1A	140C150T020S1A	Taper Hollow
	Mechanical Input HP	2.01	1.52	1.32	1.12	0.85	056C150S020S1A	140C150S020S1A	Str. Hollow
	Output Torque (lb. in.)	891	954	991	1037	1040	056C150B020K1A	140C150B020K1A	K1
	Output HP Rating	1.74	1.31	1.12	0.95	0.71	056C150B020L1A	140C150B020L1A	L1
	Output OHL (lbs.)	901	930	959	969	998	056C150B020LKA	140C150B020LKA	LK
25	Output RPM	98.68	69.08	57.24	46.18	34.34	056C150T025S1A	140C150T025S1A	Taper Hollow
	Mechanical Input HP	2.01	1.52	1.32	1.12	0.85	056C150S025S1A	140C150S025S1A	Str. Hollow
	Output Torque (lb. in.)	1113	1192	1238	1296	1299	056C150B025K1A	140C150B025K1A	K1
	Output HP Rating	1.74	1.31	1.12	0.95	0.71	056C150B025L1A	140C150B025L1A	L1
	Output OHL (lbs.)	909	938	971	978	1008	056C150B025LKA	140C150B025LKA	LK
30	Output RPM	82.19	57.53	47.67	38.47	28.60	056C150T030S1A	140C150T030S1A	Taper Hollow
	Mechanical Input HP	1.69	1.11	1.01	0.87	0.75	056C150S030S1A	140C150S030S1A	Str. Hollow
	Output Torque (lb. in.)	1106	1022	1113	1184	1361	056C150B030K1A	140C150B030K1A	K1
	Output HP Rating	1.44	0.93	0.84	0.72	0.62	056C150B030L1A	140C150B030L1A	L1
	Output OHL (lbs.)	932	970	977	1003	1041	056C150B030LKA	140C150B030LKA	LK
38	Output RPM	65.79	46.05	38.16	30.79	22.89	056C150T038S1A	140C150T038S1A	Taper Hollow
	Mechanical Input HP	1.69	1.11	1.01	0.87	0.75	056C150S038S1A	140C150S038S1A	Str. Hollow
	Output Torque (lb. in.)	1382	1277	1391	1479	1700	056C150B038K1A	140C150B038K1A	K1
	Output HP Rating	1.44	0.93	0.84	0.72	0.62	056C150B038L1A	140C150B038L1A	L1
	Output OHL (lbs.)	940	979	983	1012	1052	056C150B038LKA	140C150B038LKA	LK
40	Output RPM	61.64	43.15	35.75	28.85	21.45	056C150T040S1A	140C150T040S1A	Taper Hollow
	Mechanical Input HP	1.50	1.13	1.01	0.83	0.66	056C150S040S1A	140C150S040S1A	Str. Hollow
	Output Torque (lb. in.)	1277	1347	1452	1458	1548	056C150B040K1A	140C150B040K1A	K1
	Output HP Rating	1.25	0.92	0.82	0.67	0.53	056C150B040L1A	140C150B040L1A	L1
	Output OHL (lbs.)	940	981	983	1013	1054	056C150B040LKA	140C150B040LKA	LK
50	Output RPM	49.34	34.54	28.62	23.09	17.17	056C150T050S1A	140C150T050S1A	Taper Hollow
	Mechanical Input HP	1.50	1.11	1.01	0.81	0.62	056C150S050S1A	140C150S050S1A	Str. Hollow
	Output Torque (lb. in.)	1596	1663	1814	1776	1802	056C150B050K1A	140C150B050K1A	K1
	Output HP Rating	1.25	0.91	0.82	0.65	0.49	056C150B050L1A	140C150B050L1A	L1
	Output OHL (lbs.)	943	985	983	1016	1061	056C150B050LKA	140C150B050LKA	LK

NOTE: All units include drilled and tapped mounting holes on the top and bottom surfaces. If optional bolt-on foot is required order part number **6011246**.

Combination TIGEAR Size C150 (continued)

Ratio	Rating Data	Input RPM					Part Numbers		Shaft Position
		2500	1750	1450	1170	870	56C	140TC	
60	Output RPM	41.10	28.77	23.84	19.23	14.30	056C150T060S1A	---	Taper Hollow
	Mechanical Input HP	1.08	0.87	0.77	0.64	0.50	056C150S060S1A	---	Str. Hollow
	Output Torque (lb. in.)	1299	1474	1556	1585	1658	056C150B060K1A	---	K1
	Output HP Rating	0.85	0.67	0.59	0.48	0.38	056C150B060L1A	---	L1
	Output OHL (lbs.)	985	1013	1019	1062	1063	056C150B060LKA	---	LK
75	Output RPM	32.89	23.03	19.08	15.39	11.45	056C150T075S1A	---	Taper Hollow
	Mechanical Input HP	1.08	0.80	0.75	0.59	0.45	056C150S075S1A	---	Str. Hollow
	Output Torque (lb. in.)	1623	1690	1898	1809	1834	056C150B075K1A	---	K1
	Output HP Rating	0.85	0.62	0.57	0.44	0.33	056C150B075L1A	---	L1
	Output OHL (lbs.)	990	1020	1064	1067	1113	056C150B075LKA	---	LK
80	Output RPM	30.82	21.58	17.88	14.42	10.73	056C150T080S1A	---	Taper Hollow
	Mechanical Input HP	0.85	0.75	0.64	0.53	0.42	056C150S080S1A	---	Str. Hollow
	Output Torque (lb. in.)	1293	1603	1619	1649	1699	056C150B080K1A	---	K1
	Output HP Rating	0.63	0.55	0.46	0.38	0.29	056C150B080L1A	---	L1
	Output OHL (lbs.)	1019	1023	1068	1070	1118	056C150B080LKA	---	LK
90	Output RPM	27.41	19.19	15.90	12.83	9.54	056C150T090S1A	---	Taper Hollow
	Mechanical Input HP	0.75	0.57	0.50	0.41	0.31	056C150S090S1A	---	Str. Hollow
	Output Torque (lb. in.)	1315	1416	1480	1475	1506	056C150B090K1A	---	K1
	Output HP Rating	0.57	0.43	0.37	0.30	0.23	056C150B090L1A	---	L1
	Output OHL (lbs.)	1020	1063	1068	1111	1115	056C150B090LKA	---	LK
100	Output RPM	24.67	17.27	14.31	11.55	8.59	056C150T100S1A	---	Taper Hollow
	Mechanical Input HP	0.85	0.65	0.57	0.50	0.36	056C150S100S1A	---	Str. Hollow
	Output Torque (lb. in.)	1616	1717	1813	1928	1849	056C150B100K1A	---	K1
	Output HP Rating	0.63	0.47	0.41	0.35	0.25	056C150B100L1A	---	L1
	Output OHL (lbs.)	1025	1070	1073	1069	1122	056C150B100LKA	---	LK
125	Output RPM	20.55	14.38	11.92	9.62	7.15	056C150T125S1A	---	Taper Hollow
	Mechanical Input HP	0.63	0.52	0.47	0.40	0.33	056C150S125S1A	---	Str. Hollow
	Output Torque (lb. in.)	1251	1453	1556	1616	1736	056C150B125K1A	---	K1
	Output HP Rating	0.41	0.33	0.29	0.25	0.20	056C150B125L1A	---	L1
	Output OHL (lbs.)	1071	1081	1125	1132	1134	056C150B125LKA	---	LK
150	Output RPM	16.45	11.51	9.54	7.70	5.72	056C150T150S1A	---	Taper Hollow
	Mechanical Input HP	0.63	0.50	0.44	0.37	0.29	056C150S150S1A	---	Str. Hollow
	Output Torque (lb. in.)	1562	1717	1813	1846	1857	056C150B150K1A	---	K1
	Output HP Rating	0.41	0.31	0.27	0.23	0.17	056C150B150L1A	---	L1
	Output OHL (lbs.)	1081	1082	1135	1136	1173	056C150B150LKA	---	LK
160	Output RPM	15.41	10.79	8.94	7.21	5.36	056C150T160S1A	---	Taper Hollow
	Mechanical Input HP	0.52	0.47	0.39	0.33	0.25	056C150S160S1A	---	Str. Hollow
	Output Torque (lb. in.)	1300	1631	1618	1643	1592	056C150B160K1A	---	K1
	Output HP Rating	0.32	0.28	0.23	0.19	0.14	056C150B160L1A	---	L1
	Output OHL (lbs.)	1084	1133	1139	1141	1178	056C150B160LKA	---	LK
200	Output RPM	12.34	8.63	7.15	5.77	4.29	056C150T200S1A	---	Taper Hollow
	Mechanical Input HP	0.52	0.42	0.36	0.30	0.23	056C150S200S1A	---	Str. Hollow
	Output Torque (lb. in.)	1624	1788	1857	1857	1857	056C150B200K1A	---	K1
	Output HP Rating	0.32	0.25	0.21	0.17	0.13	056C150B200L1A	---	L1
	Output OHL (lbs.)	1090	1142	1143	1179	1231	056C150B200LKA	---	LK
240	Output RPM	10.27	7.19	5.96	4.81	3.58	056C150T240S1A	---	Taper Hollow
	Mechanical Input HP	0.30	0.25	0.22	0.19	0.16	056C150S240S1A	---	Str. Hollow
	Output Torque (lb. in.)	926	1091	1140	1208	1288	056C150B240K1A	---	K1
	Output HP Rating	0.15	0.12	0.11	0.09	0.07	056C150B240L1A	---	L1
	Output OHL (lbs.)	1160	1140	1134	1232	1251	056C150B240LKA	---	LK
300	Output RPM	8.22	5.76	4.77	3.85	2.86	056C150T300S1A	---	Taper Hollow
	Mechanical Input HP	0.30	0.25	0.22	0.19	0.16	056C150S300S1A	---	Str. Hollow
	Output Torque (lb. in.)	1157	1362	1425	1509	1609	056C150B300K1A	---	K1
	Output HP Rating	0.15	0.12	0.11	0.09	0.07	056C150B300L1A	---	K1
	Output OHL (lbs.)	1176	1136	1120	1244	1258	056C150B300LKA	---	LK

NOTE: All units include drilled and tapped mounting holes on the top and bottom surfaces. If optional bolt-on foot is required order part number **6011246**.

SELECTION

Combination TIGEAR Size C200

Ratio	Rating Data	Input RPM					Part Numbers			Shaft Position
		2500	1750	1450	1170	870	56C	140TC	180TC	
9.40	Output RPM	265	185	154	124	92	056C200T009S1A	140C200T009S1A	180C200T009S1A	Taper Hollow
	Mechanical Input HP	4.35	3.58	3.20	2.64	1.97	056C200S009S1A	140C200S009S1A	180C200S009S1A	Str. Hollow
	Output Torque (lb. in.)	936	1093	1175	1189	1181	056C200B009K1A	140C200B009K1A	180C200B009K1A	K1
	Output HP Rating	3.94	3.22	2.87	2.34	1.73	056C200B009L1A	140C200B009L1A	180C200B009L1A	L1
	Output OHL (lbs.)	1495	1473	1455	1425	1361	056C200B009LKA	140C200B009LKA	180C200B009LKA	LK
10	Output RPM	221.20	154.80	128.30	103.50	76.96	056C200T010S1A	140C200T010S1A	180C200T010S1A	Taper Hollow
	Mechanical Input HP	4.35	3.58	3.20	2.64	2.00	056C200S010S1A	140C200S010S1A	180C200S010S1A	Str. Hollow
	Output Torque (lb. in.)	1123	1312	1409	1426	1442	056C200B010K1A	140C200B010K1A	180C200B010K1A	K1
	Output HP Rating	3.94	3.22	2.87	2.34	1.76	056C200B010L1A	140C200B010L1A	180C200B010L1A	L1
	Output OHL (lbs.)	1255	1306	1320	1359	1383	056C200B010LKA	140C200B010LKA	180C200B010LKA	LK
15	Output RPM	179.10	125.40	103.90	83.82	62.33	056C200T015S1A	140C200T015S1A	180C200T015S1A	Taper Hollow
	Mechanical Input HP	4.35	3.58	3.20	2.64	2.00	056C200S015S1A	140C200S015S1A	180C200S015S1A	Str. Hollow
	Output Torque (lb. in.)	1386	1620	1740	1761	1780	056C200B015K1A	140C200B015K1A	180C200B015K1A	K1
	Output HP Rating	3.94	3.22	2.87	2.34	1.76	056C200B015L1A	140C200B015L1A	180C200B015L1A	L1
	Output OHL (lbs.)	1295	1325	1337	1379	1400	056C200B015LKA	140C200B015LKA	180C200B015LKA	LK
18	Output RPM	150.00	105.00	87.00	70.20	52.20	056C200T018S1A	140C200T018S1A	180C200T018S1A	Taper Hollow
	Mechanical Input HP	4.35	3.58	3.20	2.64	2.00	056C200S018S1A	140C200S018S1A	180C200S018S1A	Str. Hollow
	Output Torque (lb. in.)	1655	1934	2078	2103	2126	056C200B018K1A	140C200B018K1A	180C200B018K1A	K1
	Output HP Rating	3.94	3.22	2.87	2.34	1.76	056C200B018L1A	140C200B018L1A	180C200B018L1A	L1
	Output OHL (lbs.)	1312	1339	1349	1394	1410	056C200B018LKA	140C200B018LKA	180C200B018LKA	LK
20	Output RPM	123.30	86.30	71.51	57.70	42.90	056C200T020S1A	140C200T020S1A	180C200T020S1A	Taper Hollow
	Mechanical Input HP	4.35	3.58	3.20	2.64	2.00	056C200S020S1A	140C200S020S1A	180C200S020S1A	Str. Hollow
	Output Torque (lb. in.)	2014	2353	2528	2558	2586	056C200B020K1A	140C200B020K1A	180C200B020K1A	K1
	Output HP Rating	3.94	3.22	2.87	2.34	1.76	056C200B020L1A	140C200B020L1A	180C200B020L1A	L1
	Output OHL (lbs.)	1329	1352	1358	1408	1418	056C200B020LKA	140C200B020LKA	180C200B020LKA	LK
25	Output RPM	98.68	69.08	57.24	46.18	34.34	056C200T025S1A	140C200T025S1A	180C200T025S1A	Taper Hollow
	Mechanical Input HP	4.35	3.58	3.14	2.61	2.00	056C200S025S1A	140C200S025S1A	180C200S025S1A	Str. Hollow
	Output Torque (lb. in.)	2516	2940	3097	3170	3231	056C200B025K1A	140C200B025K1A	180C200B025K1A	K1
	Output HP Rating	3.94	3.22	2.81	2.32	1.76	056C200B025L1A	140C200B025L1A	180C200B025L1A	L1
	Output OHL (lbs.)	1346	1361	1361	1419	1418	056C200B025LKA	140C200B025LKA	180C200B025LKA	LK
30	Output RPM	82.19	57.53	47.67	38.47	28.60	056C200T030S1A	140C200T030S1A	---	Taper Hollow
	Mechanical Input HP	2.95	2.06	1.89	1.69	1.41	056C200S030S1A	140C200S030S1A	---	Str. Hollow
	Output Torque (lb. in.)	1989	1960	2157	2374	2634	056C200B030K1A	140C200B030K1A	---	K1
	Output HP Rating	2.59	1.79	1.63	1.45	1.20	056C200B030L1A	140C200B030L1A	---	L1
	Output OHL (lbs.)	1385	1410	1445	1457	1513	056C200B030LKA	140C200B030LKA	---	LK
38	Output RPM	65.79	46.05	38.16	30.79	22.89	056C200T038S1A	140C200T038S1A	---	Taper Hollow
	Mechanical Input HP	2.95	2.06	1.89	1.69	1.41	056C200S038S1A	140C200S038S1A	---	Str. Hollow
	Output Torque (lb. in.)	2484	2449	2695	2966	3291	056C200B038K1A	140C200B038K1A	---	K1
	Output HP Rating	2.59	1.79	1.63	1.45	1.20	056C200B038L1A	140C200B038L1A	---	L1
	Output OHL (lbs.)	1403	1421	1460	1467	1526	056C200B038LKA	140C200B038LKA	---	LK
40	Output RPM	61.64	43.15	35.75	28.85	21.45	056C200T040S1A	140C200T040S1A	---	Taper Hollow
	Mechanical Input HP	2.53	2.08	1.88	1.54	1.17	056C200S040S1A	140C200S040S1A	---	Str. Hollow
	Output Torque (lb. in.)	2226	2585	2798	2826	2826	056C200B040K1A	140C200B040K1A	---	K1
	Output HP Rating	2.18	1.77	1.59	1.29	0.96	056C200B040L1A	140C200B040L1A	---	L1
	Output OHL (lbs.)	1407	1423	1462	1467	1529	056C200B040LKA	140C200B040LKA	---	LK
50	Output RPM	49.34	34.54	28.62	23.09	17.17	056C200T050S1A	140C200T050S1A	---	Taper Hollow
	Mechanical Input HP	2.53	2.03	1.76	1.50	1.12	056C200S050S1A	140C200S050S1A	---	Str. Hollow
	Output Torque (lb. in.)	2782	3165	3280	3429	3381	056C200B050K1A	140C200B050K1A	---	K1
	Output HP Rating	2.18	1.73	1.49	1.26	0.92	056C200B050L1A	140C200B050L1A	---	L1
	Output OHL (lbs.)	1421	1425	1469	1465	1533	056C200B050LKA	140C200B050LKA	---	LK
60	Output RPM	41.10	28.77	23.84	19.23	14.30	056C200T060S1A	140C200T060S1A	---	Taper Hollow
	Mechanical Input HP	1.81	1.50	1.33	1.09	0.83	056C200S060S1A	140C200S060S1A	---	Str. Hollow
	Output Torque (lb. in.)	2278	2665	2826	2826	2826	056C200B060K1A	140C200B060K1A	---	K1
	Output HP Rating	1.49	1.22	1.07	0.86	0.64	056C200B060L1A	140C200B060L1A	---	L1
	Output OHL (lbs.)	1458	1472	1529	1537	1585	056C200B060LKA	140C200B060LKA	---	LK

NOTE: All units include drilled and tapped mounting holes on the top and bottom surfaces. If optional bolt-on foot is required order part number **6011253**.

Combination TIGEAR Size C200 (continued)

Ratio	Rating Data	Input RPM					Part Numbers			Shaft Position
		2500	1750	1450	1170	870	56C	140TC	180TC	
75	Output RPM	32.89	23.03	19.08	15.39	11.45	056C200T075S1A	140C200T075S1A	---	Taper Hollow
	Mechanical Input HP	1.81	1.50	1.27	1.05	0.81	056C200S075S1A	140C200S075S1A	---	Str. Hollow
	Output Torque (lb. in.)	2846	3329	3367	3390	3453	056C200B075K1A	140C200B075K1A	---	K1
	Output HP Rating	1.49	1.22	1.02	0.83	0.63	056C200B075L1A	140C200B075L1A	---	L1
	Output OHL (lbs.)	1510	1470	1539	1538	1587	056C200B075LKA	140C200B075LKA	---	LK
80	Output RPM	30.82	21.58	17.88	14.42	10.73	056C200T080S1A	140C200T080S1A	---	Taper Hollow
	Mechanical Input HP	1.48	1.18	1.06	0.87	0.66	056C200S080S1A	140C200S080S1A	---	Str. Hollow
	Output Torque (lb. in.)	2325	2640	2826	2826	2826	056C200B080K1A	140C200B080K1A	---	K1
	Output HP Rating	1.14	0.90	0.80	0.65	0.48	056C200B080L1A	140C200B080L1A	---	L1
	Output OHL (lbs.)	1516	1537	1544	1590	1653	056C200B080LKA	140C200B080LKA	---	LK
90	Output RPM	27.41	19.19	15.90	12.83	9.54	056C200T090S1A	140C200T090S1A	---	Taper Hollow
	Mechanical Input HP	1.53	1.27	1.11	0.92	0.75	056C200S090S1A	140C200S090S1A	---	Str. Hollow
	Output Torque (lb. in.)	2794	3248	3384	3418	3666	056C200B090K1A	140C200B090K1A	---	K1
	Output HP Rating	1.22	0.99	0.85	0.70	0.55	056C200B090L1A	140C200B090L1A	---	L1
	Output OHL (lbs.)	1478	1542	1544	1594	1660	056C200B090LKA	140C200B090LKA	---	LK
100	Output RPM	24.67	17.27	14.31	11.55	8.59	056C200T100S1A	140C200T100S1A	---	Taper Hollow
	Mechanical Input HP	1.48	1.17	1.02	0.85	0.65	056C200S100S1A	140C200S100S1A	---	Str. Hollow
	Output Torque (lb. in.)	2969	3290	3401	3434	3468	056C200B100K1A	140C200B100K1A	---	K1
	Output HP Rating	1.16	0.90	0.77	0.63	0.47	056C200B100L1A	140C200B100L1A	---	L1
	Output OHL (lbs.)	1532	1544	1543	1595	1665	056C200B100LKA	140C200B100LKA	---	LK
125	Output RPM	19.74	13.82	11.45	9.24	6.87	056C200T125S1A	---	---	Taper Hollow
	Mechanical Input HP	1.20	1.00	0.86	0.75	0.55	056C200S125S1A	---	---	Str. Hollow
	Output Torque (lb. in.)	2896	3372	3432	3660	3498	056C200B125K1A	---	---	K1
	Output HP Rating	0.91	0.74	0.62	0.54	0.38	056C200B125L1A	---	---	L1
	Output OHL (lbs.)	1546	1545	1599	1666	1672	056C200B125LKA	---	---	LK
150	Output RPM	16.45	11.51	9.54	7.70	5.72	056C200T150S1A	---	---	Taper Hollow
	Mechanical Input HP	1.02	0.85	0.78	0.65	0.51	056C200S150S1A	---	---	Str. Hollow
	Output Torque (lb. in.)	2735	3198	3440	3482	3518	056C200B150K1A	---	---	K1
	Output HP Rating	0.71	0.58	0.52	0.43	0.32	056C200B150L1A	---	---	L1
	Output OHL (lbs.)	1558	1607	1616	1683	1683	056C200B150LKA	---	---	LK
160	Output RPM	15.41	10.79	8.94	7.21	5.36	056C200T160S1A	---	---	Taper Hollow
	Mechanical Input HP	0.82	0.75	0.64	0.53	0.41	056C200S160S1A	---	---	Str. Hollow
	Output Torque (lb. in.)	2211	2813	2826	2826	2826	056C200B160K1A	---	---	K1
	Output HP Rating	0.54	0.48	0.40	0.32	0.24	056C200B160L1A	---	---	L1
	Output OHL (lbs.)	1600	1667	1684	1690	1763	056C200B160LKA	---	---	LK
200	Output RPM	12.34	8.63	7.15	5.77	4.29	056C200T200S1A	---	---	Taper Hollow
	Mechanical Input HP	0.82	0.75	0.63	0.53	0.41	056C200S200S1A	---	---	Str. Hollow
	Output Torque (lb. in.)	2762	3514	3496	3520	3530	056C200B200K1A	---	---	K1
	Output HP Rating	0.54	0.48	0.40	0.32	0.24	056C200B200L1A	---	---	L1
	Output OHL (lbs.)	1613	1681	1703	1691	1774	056C200B200LKA	---	---	LK
240	Output RPM	10.27	7.19	5.96	4.81	3.58	056C200T240S1A	---	---	Taper Hollow
	Mechanical Input HP	0.58	0.45	0.42	0.37	0.31	056C200S240S1A	---	---	Str. Hollow
	Output Torque (lb. in.)	2100	2236	2450	2628	2826	056C200B240K1A	---	---	K1
	Output HP Rating	0.34	0.26	0.23	0.20	0.16	056C200B240L1A	---	---	L1
	Output OHL (lbs.)	1676	1745	1764	1780	1836	056C200B240LKA	---	---	LK
300	Output RPM	8.22	5.76	4.77	3.85	2.86	056C200T300S1A	---	---	Taper Hollow
	Mechanical Input HP	0.58	0.45	0.42	0.37	0.31	056C200S300S1A	---	---	Str. Hollow
	Output Torque (lb. in.)	2624	2794	3061	3284	3530	056C200B300K1A	---	---	K1
	Output HP Rating	0.34	0.26	0.23	0.20	0.16	056C200B300L1A	---	---	L1
	Output OHL (lbs.)	1694	1767	1781	1789	1848	056C200B300LKA	---	---	LK

NOTE: All units include drilled and tapped mounting holes on the top and bottom surfaces. If optional bolt-on foot is required order part number **6011253**.

SELECTION

Combination TIGEAR Size C262

Ratio	Rating Data	Input RPM					Part Numbers			Shaft Position
		2500	1750	1450	1170	870	56C	140TC	180TC	
7.50	Output RPM	341	239	198	160	119	056C262T007S1A	140C262T007S1A	180C262T007S1A	Taper Hollow
	Mechanical Input HP	5.87	5.00	4.59	4.22	3.66	056C262S007S1A	140C262S007S1A	180C262S007S1A	Str. Hollow
	Output Torque (lb. in.)	993	1176	1317	1491	1722	056C262B007K1A	140C262B007K1A	180C262B007K1A	K1
	Output HP Rating	5.37	4.46	4.14	3.78	3.25	056C262B007L1A	140C262B007L1A	180C262B007L1A	L1
	Output OHL (lbs.)	2989	2969	2952	2930	2899	056C262B007LKA	140C262B007LKA	180C262B007LKA	LK
9.40	Output RPM	266	186	154	124	92	056C262T009S1A	140C262T009S1A	180C262T009S1A	Taper Hollow
	Mechanical Input HP	5.87	5.00	4.59	4.22	3.66	056C262S009S1A	140C262S009S1A	180C262S009S1A	Str. Hollow
	Output Torque (lb. in.)	1273	1511	1693	1924	2227	056C262B009K1A	140C262B009K1A	180C262B009K1A	K1
	Output HP Rating	5.37	4.46	4.14	3.78	3.25	056C262B009L1A	140C262B009L1A	180C262B009L1A	L1
	Output OHL (lbs.)	2375	2448	2485	2528	2589	056C262B009LKA	140C262B009LKA	180C262B009LKA	LK
10	Output RPM	220.00	154.00	127.60	103.00	76.56	056C262T010S1A	140C262T010S1A	180C262T010S1A	Taper Hollow
	Mechanical Input HP	6.52	5.43	5.07	4.65	4.03	056C262S010S1A	140C262S010S1A	180C262S010S1A	Str. Hollow
	Output Torque (lb. in.)	1710	2023	2257	2553	2946	056C262B010K1A	140C262B010K1A	180C262B010K1A	K1
	Output HP Rating	5.97	4.94	4.57	4.17	3.58	056C262B010L1A	140C262B010L1A	180C262B010L1A	L1
	Output OHL (lbs.)	2102	2220	2275	2637	2696	056C262B010LKA	140C262B010LKA	180C262B010LKA	LK
15	Output RPM	179.10	125.40	103.90	83.82	62.33	056C262T015S1A	140C262T015S1A	180C262T015S1A	Taper Hollow
	Mechanical Input HP	6.52	5.43	5.07	4.65	4.03	056C262S015S1A	140C262S015S1A	180C262S015S1A	Str. Hollow
	Output Torque (lb. in.)	2101	2485	2773	3135	3619	056C262B015K1A	140C262B015K1A	180C262B015K1A	K1
	Output HP Rating	5.97	4.94	4.57	4.17	3.58	056C262B015L1A	140C262B015L1A	180C262B015L1A	L1
	Output OHL (lbs.)	2181	2283	2326	2683	2727	056C262B015LKA	140C262B015LKA	180C262B015LKA	LK
18	Output RPM	150.00	105.00	87.00	70.20	52.20	056C262T018S1A	140C262T018S1A	180C262T018S1A	Taper Hollow
	Mechanical Input HP	6.52	5.43	5.07	4.65	4.03	056C262S018S1A	140C262S018S1A	180C262S018S1A	Str. Hollow
	Output Torque (lb. in.)	2509	2967	3311	3744	4321	056C262B018K1A	140C262B018K1A	180C262B018K1A	K1
	Output HP Rating	5.97	4.94	4.57	4.17	3.58	056C262B018L1A	140C262B018L1A	180C262B018L1A	L1
	Output OHL (lbs.)	2274	2371	2410	2717	2757	056C262B018LKA	140C262B018LKA	180C262B018LKA	LK
20	Output RPM	123.30	86.30	71.51	57.70	42.90	056C262T020S1A	140C262T020S1A	180C262T020S1A	Taper Hollow
	Mechanical Input HP	6.52	5.43	5.07	4.65	4.03	056C262S020S1A	140C262S020S1A	180C262S020S1A	Str. Hollow
	Output Torque (lb. in.)	3052	3610	4028	4555	5257	056C262B020K1A	140C262B020K1A	180C262B020K1A	K1
	Output HP Rating	5.97	4.94	4.57	4.17	3.58	056C262B020L1A	140C262B020L1A	180C262B020L1A	L1
	Output OHL (lbs.)	2357	2436	2461	2749	2781	056C262B020LKA	140C262B020LKA	180C262B020LKA	LK
25	Output RPM	98.68	69.08	57.24	46.18	34.34	056C262T025S1A	140C262T025S1A	180C262T025S1A	Taper Hollow
	Mechanical Input HP	6.52	5.37	5.07	4.62	3.60	056C262S025S1A	140C262S025S1A	180C262S025S1A	Str. Hollow
	Output Torque (lb. in.)	3813	4462	5032	5657	5863	056C262B025K1A	140C262B025K1A	180C262B025K1A	K1
	Output HP Rating	5.97	4.89	4.57	4.15	3.19	056C262B025L1A	140C262B025L1A	180C262B025L1A	L1
	Output OHL (lbs.)	2441	2491	2496	2779	2799	056C262B025LKA	140C262B025LKA	180C262B025LKA	LK
30	Output RPM	82.19	57.53	47.67	38.47	28.60	056C262T030S1A	140C262T030S1A	180C262T030S1A	Taper Hollow
	Mechanical Input HP	5.37	4.45	4.09	3.71	3.10	056C262S030S1A	140C262S030S1A	180C262S030S1A	Str. Hollow
	Output Torque (lb. in.)	3694	4331	4789	5345	5938	056C262B030K1A	140C262B030K1A	180C262B030K1A	K1
	Output HP Rating	4.82	3.95	3.62	3.26	2.70	056C262B030L1A	140C262B030L1A	180C262B030L1A	L1
	Output OHL (lbs.)	2455	2751	2773	2790	2795	056C262B030LKA	140C262B030LKA	180C262B030LKA	LK
38	Output RPM	65.79	46.05	38.16	30.79	22.89	056C262T038S1A	140C262T038S1A	180C262T038S1A	Taper Hollow
	Mechanical Input HP	5.37	4.45	4.03	3.29	2.52	056C262S038S1A	140C262S038S1A	180C262S038S1A	Str. Hollow
	Output Torque (lb. in.)	4616	5410	5893	5918	6016	056C262B038K1A	140C262B038K1A	180C262B038K1A	K1
	Output HP Rating	4.82	3.95	3.57	2.89	2.19	056C262B038L1A	140C262B038L1A	180C262B038L1A	L1
	Output OHL (lbs.)	2507	2781	2796	2802	2923	056C262B038LKA	140C262B038LKA	180C262B038LKA	LK
40	Output RPM	61.64	43.15	35.75	28.85	21.45	056C262T040S1A	140C262T040S1A	180C262T040S1A	Taper Hollow
	Mechanical Input HP	4.25	3.63	3.38	3.07	2.42	056C262S040S1A	140C262S040S1A	180C262S040S1A	Str. Hollow
	Output Torque (lb. in.)	3822	4619	5166	5760	6018	056C262B040K1A	140C262B040K1A	180C262B040K1A	K1
	Output HP Rating	3.74	3.16	2.93	2.64	2.05	056C262B040L1A	140C262B040L1A	180C262B040L1A	L1
	Output OHL (lbs.)	2743	2786	2797	2799	2924	056C262B040LKA	140C262B040LKA	180C262B040LKA	LK
50	Output RPM	49.34	34.54	28.62	23.09	17.17	056C262T050S1A	140C262T050S1A	180C262T050S1A	Taper Hollow
	Mechanical Input HP	4.25	3.63	3.11	2.57	2.00	056C262S050S1A	140C262S050S1A	180C262S050S1A	Str. Hollow
	Output Torque (lb. in.)	4775	5771	5935	6018	6200	056C262B050K1A	140C262B050K1A	180C262B050K1A	K1
	Output HP Rating	3.74	3.16	2.70	2.21	1.69	056C262B050L1A	140C262B050L1A	180C262B050L1A	L1
	Output OHL (lbs.)	2776	2805	2804	2926	2927	056C262B050LKA	140C262B050LKA	180C262B050LKA	LK

NOTE: All units include drilled and tapped mounting holes on the top and bottom surfaces. If optional bolt-on foot is required order part number **6011253**.

Combination TIGEAR Size C262 (continued)

Ratio	Rating Data	Input RPM					Part Numbers			Shaft Position
		2500	1750	1450	1170	870	56C	140TC	180TC	
60	Output RPM	41.10	28.77	23.84	19.23	14.30	056C262T060S1A	140C262T060S1A	---	Taper Hollow
	Mechanical Input HP	3.15	2.73	2.53	2.26	1.73	056C262S060S1A	140C262S060S1A	---	Str. Hollow
	Output Torque (lb. in.)	4101	5012	5555	6070	6133	056C262B060K1A	140C262B060K1A	---	K1
	Output HP Rating	2.67	2.29	2.10	1.85	1.39	056C262B060L1A	140C262B060L1A	---	L1
	Output OHL (lbs.)	2794	2910	2926	2935	3028	056C262B060LKA	140C262B060LKA	---	LK
75	Output RPM	32.89	23.03	19.08	15.39	11.45	056C262T075S1A	140C262T075S1A	---	Taper Hollow
	Mechanical Input HP	3.15	2.59	2.23	1.84	1.41	056C262S075S1A	140C262S075S1A	---	Str. Hollow
	Output Torque (lb. in.)	5124	5928	6086	6138	6205	056C262B075K1A	140C262B075K1A	---	K1
	Output HP Rating	2.67	2.17	1.84	1.50	1.13	056C262B075L1A	140C262B075L1A	---	L1
	Output OHL (lbs.)	2812	2933	2939	3031	3157	056C262B075LKA	140C262B075LKA	---	LK
80	Output RPM	30.82	21.58	17.88	14.42	10.73	SEE NEXT PAGE	---	---	Taper Hollow
	Mechanical Input HP	2.44	2.13	1.81	1.51	1.17	SEE NEXT PAGE	---	---	Str. Hollow
	Output Torque (lb. in.)	4156	5109	5174	5285	5410	056C262B080K1A	140C262B080K1A	---	K1
	Output HP Rating	2.03	1.75	1.47	1.21	0.92	056C262B080L1A	140C262B080L1A	---	L1
	Output OHL (lbs.)	2903	2932	3018	3028	3159	056C262B080LKA	140C262B080LKA	---	LK
90	Output RPM	27.41	19.19	15.90	12.83	9.54	SEE NEXT PAGE	---	---	Taper Hollow
	Mechanical Input HP	2.69	2.20	1.88	1.56	1.19	SEE NEXT PAGE	---	---	Str. Hollow
	Output Torque (lb. in.)	5224	6003	6138	6211	6267	056C262B090K1A	140C262B090K1A	---	K1
	Output HP Rating	2.27	1.83	1.55	1.26	0.95	056C262B090L1A	140C262B090L1A	---	L1
	Output OHL (lbs.)	2918	2937	3027	3029	3166	056C262B090LKA	140C262B090LKA	---	LK
100	Output RPM	24.67	17.27	14.31	11.55	8.59	SEE NEXT PAGE	---	---	Taper Hollow
	Mechanical Input HP	2.44	2.02	1.73	1.42	1.09	SEE NEXT PAGE	---	---	Str. Hollow
	Output Torque (lb. in.)	5192	6041	6172	6205	6295	056C262B100K1A	140C262B100K1A	---	K1
	Output HP Rating	2.03	1.66	1.40	1.14	0.86	056C262B100L1A	140C262B100L1A	---	L1
	Output OHL (lbs.)	2929	2937	3034	3156	3172	056C262B100LKA	140C262B100LKA	---	LK
125	Output RPM	19.74	13.82	11.45	9.24	6.87	SEE NEXT PAGE	---	---	Taper Hollow
	Mechanical Input HP	2.07	1.70	1.48	1.20	0.92	SEE NEXT PAGE	---	---	Str. Hollow
	Output Torque (lb. in.)	5320	6125	6349	6272	6340	056C262B125K1A	140C262B125K1A	---	K1
	Output HP Rating	1.67	1.34	1.15	0.92	0.69	056C262B125L1A	140C262B125L1A	---	L1
	Output OHL (lbs.)	2947	3039	3164	3179	3280	056C262B125LKA	140C262B125LKA	---	LK
150	Output RPM	16.45	11.51	9.54	7.70	5.72	056C262T150S1A	140C262T150S1A	---	Taper Hollow
	Mechanical Input HP	1.91	1.50	1.29	1.07	0.83	056C262S150S1A	140C262S150S1A	---	Str. Hollow
	Output Torque (lb. in.)	5597	6169	6261	6315	6388	056C262B150K1A	140C262B150K1A	---	K1
	Output HP Rating	1.46	1.13	0.95	0.77	0.58	056C262B150L1A	140C262B150L1A	---	L1
	Output OHL (lbs.)	3044	3051	3190	3198	3305	056C262B150LKA	140C262B150LKA	---	LK
160	Output RPM	15.41	10.79	8.94	7.21	5.36	056C262T160S1A	140C262T160S1A	---	Taper Hollow
	Mechanical Input HP	1.72	1.50	1.32	1.11	0.87	056C262S160S1A	140C262S160S1A	---	Str. Hollow
	Output Torque (lb. in.)	5024	6002	6267	6297	6380	056C262B160K1A	140C262B160K1A	---	K1
	Output HP Rating	1.23	1.03	0.89	0.72	0.54	056C262B160L1A	140C262B160L1A	---	L1
	Output OHL (lbs.)	3057	3195	3211	3223	3335	056C262B160LKA	140C262B160LKA	---	LK
200	Output RPM	12.34	8.63	7.15	5.77	4.29	056C262T200S1A	140C262T200S1A	---	Taper Hollow
	Mechanical Input HP	1.70	1.25	1.08	0.90	0.75	056C262S200S1A	140C262S200S1A	---	Str. Hollow
	Output Torque (lb. in.)	6209	6223	6345	6387	6836	056C262B200K1A	140C262B200K1A	---	K1
	Output HP Rating	1.22	0.85	0.72	0.59	0.47	056C262B200L1A	140C262B200L1A	---	L1
	Output OHL (lbs.)	3072	3220	3223	3329	3476	056C262B200LKA	140C262B200LKA	---	LK
240	Output RPM	10.27	7.19	5.96	4.81	3.58	056C262T240S1A	---	---	Taper Hollow
	Mechanical Input HP	1.16	0.88	0.83	0.76	0.66	056C262S240S1A	---	---	Str. Hollow
	Output Torque (lb. in.)	4348	4730	5216	5751	6368	056C262B240K1A	---	---	K1
	Output HP Rating	0.71	0.54	0.49	0.44	0.36	056C262B240L1A	---	---	L1
	Output OHL (lbs.)	3220	3326	3344	3360	3514	056C262B240LKA	---	---	LK
300	Output RPM	8.22	5.76	4.77	3.85	2.86	056C262T300S1A	---	---	Taper Hollow
	Mechanical Input HP	1.01	0.88	0.82	0.68	0.53	056C262S300S1A	---	---	Str. Hollow
	Output Torque (lb. in.)	4694	5909	6436	6436	6436	056C262B300K1A	---	---	K1
	Output HP Rating	0.61	0.54	0.49	0.39	0.29	056C262B300L1A	---	---	L1
	Output OHL (lbs.)	3248	3353	3357	3504	3527	056C262B300LKA	---	---	LK

NOTE: All units include drilled and tapped mounting holes on the top and bottom surfaces. If optional bolt-on foot is required order part number **6011253**.

SELECTION

Combination Tigear Size C262 Hollow Output Shaft

NOTE: Ratings for the following ratios are different from Solid Shaft ratings.
This is only applicable to size C262

Ratio	Rating Data	Input RPM					Part Number			Shaft Position
		2500	1750	1450	1170	870	56C	140TC	180TC	
80	Output RPM	29.85	20.90	17.31	13.97	10.39	056C262T080S1A	140C262T080S1A	---	Taper Hollow Str. Hollow
	Mechanical Input HP	1.91	1.60	1.50	1.35	1.14	056C262S080S1A	140C262S080S1A	---	
	Output Torque (lb. in.)	3008	3620	4035	4400	4861				
	Output HP Rating	1.42	1.20	1.11	0.98	0.80				
	Output OHL (lbs.)	2903	2932	3018	3028	3159				
90	Output RPM	27.50	19.25	15.95	12.87	9.57	056C262T090S1A	140C262T090S1A	---	Taper Hollow Str. Hollow
	Mechanical Input HP	1.75	1.50	1.33	1.13	1.00	056C262S090S1A	140C262S090S1A	---	
	Output Torque (lb. in.)	2868	3373	3529	3607	4115				
	Output HP Rating	1.25	1.03	0.89	0.74	0.62				
	Output OHL (lbs.)	2918	2937	3027	3029	3166				
100	Output RPM	25.00	17.50	14.50	11.70	8.70	056C262T100S1A	140C262T100S1A	---	Taper Hollow Str. Hollow
	Mechanical Input HP	1.91	1.60	1.34	1.35	1.14	056C262S100S1A	140C262S100S1A	---	
	Output Torque (lb. in.)	3591	4322	4275	5254	5804				
	Output HP Rating	1.42	1.20	0.98	0.98	0.80				
	Output OHL (lbs.)	2929	2937	3034	3156	3172				
125	Output RPM	20.55	14.38	11.92	9.62	7.15	056C262T125S1A	140C262T125S1A	---	Taper Hollow Str. Hollow
	Mechanical Input HP	1.91	1.60	1.50	1.31	1.02	056C262S125S1A	140C262S125S1A	---	
	Output Torque (lb. in.)	4480	5258	5861	6243	6314				
	Output HP Rating	1.46	1.20	1.11	0.95	0.72				
	Output OHL (lbs.)	2947	3039	3164	3179	3280				

NOTE: All units include drilled and tapped mounting holes on the top and bottom surfaces. If optional bolt-on foot is required, order part number **6011260**.

Combination TIGEAR Size C350

Ratio	Rating Data	Input RPM					Part Numbers				Shaft Position
		2500	1750	1450	1170	870	56C	140TC	180TC	210TC	
6.10	Output RPM	415	290	240	194	144	---	140C350T006S1A	180C350T006S1A	210C350T006S1A	Taper Hollow
	Mechanical Input HP	12.98	11.26	10.33	9.25	8.24	---	140C350S006S1A	180C350S006S1A	210C350S006S1A	Str. Hollow
	Output Torque (lb. in.)	1811	2229	2459	2714	3225	---	140C350B006K1A	180C350B006K1A	210C350B006K1A	K1
	Output HP Rating	11.92	10.26	9.38	8.36	7.38	---	140C350B006L1A	180C350B006L1A	210C350B006L1A	L1
	Output OHL (lbs.)	4251	4377	4445	4524	4626	---	140C350B006LKA	180C350B006LKA	210C350B006LKA	LK
7.50	Output RPM	333	233	193	156	116	---	140C350T007S1A	180C350T007S1A	210C350T007S1A	Taper Hollow
	Mechanical Input HP	12.98	11.26	10.33	9.25	8.24	---	140C350S007S1A	180C350S007S1A	210C350S007S1A	Str. Hollow
	Output Torque (lb. in.)	2253	2772	3059	3376	4011	---	140C350B007K1A	180C350B007K1A	210C350B007K1A	K1
	Output HP Rating	11.92	10.26	9.38	8.36	7.38	---	140C350B007L1A	180C350B007L1A	210C350B007L1A	L1
	Output OHL (lbs.)	4302	4421	4484	4559	4604	---	140C350B007LKA	180C350B007LKA	210C350B007LKA	LK
9.40	Output RPM	265	186	154	124	92	---	140C350T009S1A	180C350T009S1A	210C350T009S1A	Taper Hollow
	Mechanical Input HP	12.98	11.26	10.33	9.25	8.24	---	140C350S009S1A	180C350S009S1A	210C350S009S1A	Str. Hollow
	Output Torque (lb. in.)	2831	3483	3843	4242	5040	---	140C350B009K1A	180C350B009K1A	210C350B009K1A	K1
	Output HP Rating	11.92	10.26	9.38	8.36	7.38	---	140C350B009L1A	180C350B009L1A	210C350B009L1A	L1
	Output OHL (lbs.)	4336	4407	4409	4412	4355	---	140C350B009LKA	180C350B009LKA	210C350B009LKA	LK
10	Output RPM	221.20	154.80	128.30	103.50	76.96	---	---	180C350T010S1A	210C350T010S1A*	Taper Hollow
	Mechanical Input HP	12.98	11.26	10.33	9.25	8.24	---	---	180C350S010S1A	210C350S010S1A*	Str. Hollow
	Output Torque (lb. in.)	3396	4179	4611	5089	6046	---	---	180C350B010K1A	210C350B010K1A*	K1
	Output HP Rating	11.92	10.26	9.38	8.36	7.38	---	---	180C350B010L1A	210C350B010L1A*	L1
	Output OHL (lbs.)	4533	4653	4713	4826	4917	---	---	180C350B010LKA	210C350B010LKA*	LK
15	Output RPM	179.10	125.40	103.90	83.82	62.33	---	---	180C350T015S1A	210C350T015S1A*	Taper Hollow
	Mechanical Input HP	12.98	11.26	10.33	9.25	8.24	---	---	180C350S015S1A	210C350S015S1A*	Str. Hollow
	Output Torque (lb. in.)	4193	5160	5693	6284	7466	---	---	180C350B015K1A	210C350B015K1A*	K1
	Output HP Rating	11.92	10.26	9.38	8.36	7.38	---	---	180C350B015L1A	210C350B015L1A*	L1
	Output OHL (lbs.)	4610	4726	4781	4899	4915	---	---	180C350B015LKA	210C350B015LKA*	LK
18	Output RPM	150.00	105.00	87.00	70.20	52.20	---	---	180C350T018S1A	210C350T018S1A*	Taper Hollow
	Mechanical Input HP	12.98	11.26	10.33	9.25	8.11	---	---	180C350S018S1A	210C350S018S1A*	Str. Hollow
	Output Torque (lb. in.)	5007	6161	6798	7503	8768	---	---	180C350B018K1A	210C350B018K1A*	K1
	Output HP Rating	11.92	10.26	9.38	8.36	7.26	---	---	180C350B018L1A	210C350B018L1A*	L1
	Output OHL (lbs.)	4674	4785	4784	4957	4853	---	---	180C350B018LKA	210C350B018LKA*	LK
20	Output RPM	123.30	86.30	71.51	57.70	42.90	---	---	180C350T020S1A	210C350T020S1A*	Taper Hollow
	Mechanical Input HP	12.98	11.26	10.33	8.83	7.11	---	---	180C350S020S1A	210C350S020S1A*	Str. Hollow
	Output Torque (lb. in.)	6092	7496	8271	8714	9343	---	---	180C350B020K1A	210C350B020K1A*	K1
	Output HP Rating	11.92	10.26	9.38	7.98	6.36	---	---	180C350B020L1A	210C350B020L1A*	L1
	Output OHL (lbs.)	4742	4800	4717	4919	5195	---	---	180C350B020LKA	210C350B020LKA*	LK
25	Output RPM	98.68	69.08	57.24	46.18	34.34	---	---	180C350T025S1A	210C350T025S1A*	Taper Hollow
	Mechanical Input HP	12.98	10.13	8.82	7.53	6.06	---	---	180C350S025S1A	210C350S025S1A*	Str. Hollow
	Output Torque (lb. in.)	7611	8414	8805	9268	9946	---	---	180C350B025K1A	210C350B025K1A*	K1
	Output HP Rating	11.92	9.22	8.00	6.79	5.42	---	---	180C350B025L1A	210C350B025L1A*	L1
	Output OHL (lbs.)	4814	4717	4595	4820	5131	---	---	180C350B025LKA	210C350B025LKA*	LK
30	Output RPM	82.19	57.53	47.67	38.47	28.60	---	---	180C350T030S1A	210C350T030S1A	Taper Hollow
	Mechanical Input HP	10.10	8.51	7.71	6.62	5.37	---	---	180C350S030S1A	210C350S030S1A	Str. Hollow
	Output Torque (lb. in.)	7014	8376	9110	9634	10408	---	---	180C350B030K1A	210C350B030K1A	K1
	Output HP Rating	9.15	7.65	6.89	5.88	4.72	---	---	180C350B030L1A	210C350B030L1A	L1
	Output OHL (lbs.)	4784	4925	4812	5170	5012	---	---	180C350B030LKA	210C350B030LKA	LK
38	Output RPM	65.79	46.05	38.16	30.79	22.89	---	---	180C350T038S1A	210C350T038S1A	Taper Hollow
	Mechanical Input HP	10.10	7.56	6.59	5.65	4.58	---	---	180C350S038S1A	210C350S038S1A	Str. Hollow
	Output Torque (lb. in.)	8763	9281	9712	10251	11061	---	---	180C350B038K1A	210C350B038K1A	K1
	Output HP Rating	9.15	6.78	5.88	5.01	4.02	---	---	180C350B038L1A	210C350B038L1A	L1
	Output OHL (lbs.)	4695	4823	5183	5079	5505	---	---	180C350B038LKA	210C350B038LKA	LK
40	Output RPM	61.64	43.15	35.75	28.85	21.45	056C350T040S1A	140C350T040S1A	180C350T040S1A	--	Taper Hollow
	Mechanical Input HP	8.34	6.94	6.32	5.53	4.56	056C350S040S1A	140C350S040S1A	180C350S040S1A	--	Str. Hollow
	Output Torque (lb. in.)	7491	8935	9778	10341	11286	056C350B040K1A	140C350B040K1A	180C350B040K1A	--	K1
	Output HP Rating	7.33	6.12	5.55	4.73	3.84	056C350B040L1A	140C350B040L1A	180C350B040L1A	--	L1
	Output OHL (lbs.)	4972	5197	5151	5056	5502	056C350B040LKA	140C350B040LKA	180C350B040LKA	--	LK
50	Output RPM	49.34	34.54	28.62	23.09	17.17	056C350T050S1A	140C350T050S1A	180C350T050S1A	--	Taper Hollow
	Mechanical Input HP	8.14	6.19	5.40	4.72	3.89	056C350S050S1A	140C350S050S1A	180C350S050S1A	--	Str. Hollow
	Output Torque (lb. in.)	9125	9943	10403	10993	12014	056C350B050K1A	140C350B050K1A	180C350B050K1A	--	K1
	Output HP Rating	7.14	5.45	4.72	4.03	3.27	056C350B050L1A	140C350B050L1A	180C350B050L1A	--	L1
	Output OHL (lbs.)	4893	5154	5046	5517	5414	056C350B050LKA	140C350B050LKA	180C350B050LKA	--	LK
60	Output RPM	41.10	28.77	23.84	19.23	14.30	056C350T060S1A	140C350T060S1A	180C350T060S1A	--	Taper Hollow
	Mechanical Input HP	6.80	5.36	4.75	4.23	3.51	056C350S060S1A	140C350S060S1A	180C350S060S1A	--	Str. Hollow
	Output Torque (lb. in.)	8995	9983	10883	11593	12654	056C350B060K1A	140C350B060K1A	180C350B060K1A	--	K1
	Output HP Rating	5.87	4.56	4.12	3.54	2.87	056C350B060L1A	140C350B060L1A	180C350B060L1A	--	L1
	Output OHL (lbs.)	5217	5064	5496	5461	5285	056C350B060LKA	140C350B060LKA	180C350B060LKA	--	LK

* Thermal limitations may apply. Consult DODGE Application Engineering

NOTE: All units include drilled and tapped mounting holes on the top and bottom surfaces. If optional bolt-on foot is required, order part number 6011277

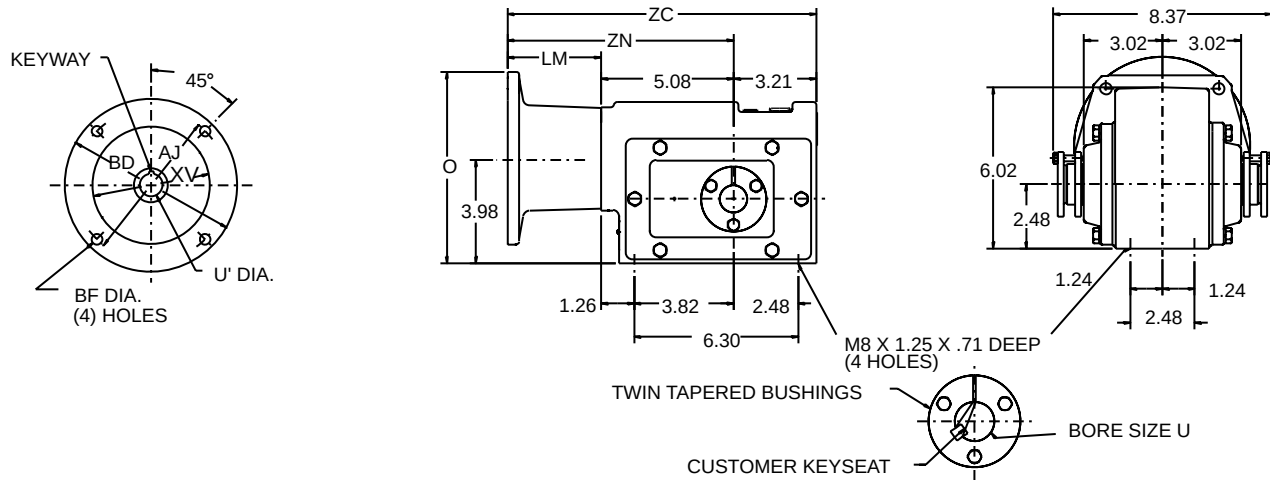
SELECTION

Combination TIGEAR Size C350 (continued)

Ratio	Rating Data	Input RPM					Part Numbers				Shaft Position
		2500	1750	1450	1170	870	56C	140TC	180TC	210TC	
75	Output RPM	32.89	23.03	19.08	15.39	11.45	056C350T075S1A	140C350T075S1A	180C350T075S1A	--	Taper Hollow Str. Hollow K1 L1 LK
	Mechanical Input HP	6.08	5.00	4.06	3.62	2.90	056C350S075S1A	140C350S075S1A	180C350S075S1A	--	
	Output Torque (lb. in.)	10027	11619	11590	12357	13057	056C350B075K1A	140C350B075K1A	180C350B075K1A	--	
	Output HP Rating	5.23	4.24	3.51	3.02	2.37	056C350B075L1A	140C350B075L1A	180C350B075L1A	--	
	Output OHL (lbs.)	4875	4875	4875	4875	4875	056C350B075LKA	140C350B075LKA	180C350B075LKA	--	
80	Output RPM	30.82	21.58	17.88	14.42	10.73	056C350T080S1A	140C350T080S1A	180C350T080S1A	---	Taper Hollow Str. Hollow K1 L1 LK
	Mechanical Input HP	5.58	4.63	4.12	3.57	2.85	056C350S080S1A	140C350S080S1A	180C350S080S1A	---	
	Output Torque (lb. in.)	9502	11034	11740	12444	13014	056C350B080K1A	140C350B080K1A	180C350B080K1A	---	
	Output HP Rating	4.65	3.78	3.33	2.85	2.21	056C350B080L1A	140C350B080L1A	180C350B080L1A	---	
	Output OHL (lbs.)	5131	5542	5465	5333	5712	056C350B080LKA	140C350B080LKA	180C350B080LKA	---	
86	Output RPM	30.00	21.00	17.40	14.14	10.44	056C350T086S1A	140C350T086S1A	180C350T086S1A	---	Taper Hollow Str. Hollow K1 L1 LK
	Mechanical Input HP	4.70	4.20	3.55	3.17	2.76	056C350S086S1A	140C350S086S1A	180C350S086S1A	---	
	Output Torque (lb. in.)	7988	9997	10055	10996	12478	056C350B086K1A	140C350B086K1A	180C350B086K1A	---	
	Output HP Rating	3.80	3.33	2.78	2.45	2.07	056C350B086L1A	140C350B086L1A	180C350B086L1A	---	
	Output OHL (lbs.)	5515	5515	5515	5515	5515	056C350B086LKA	140C350B086LKA	180C350B086LKA	---	
100	Output RPM	24.67	17.27	14.31	11.55	8.59	056C350T100S1A	140C350T100S1A	180C350T100S1A	---	Taper Hollow Str. Hollow K1 L1 LK
	Mechanical Input HP	5.02	3.99	3.53	3.01	2.30	056C350S100S1A	140C350S100S1A	180C350S100S1A	---	
	Output Torque (lb. in.)	10640	11838	12518	13053	13069	056C350B100K1A	140C350B100K1A	180C350B100K1A	---	
	Output HP Rating	4.17	3.24	2.84	2.39	1.78	056C350B100L1A	140C350B100L1A	180C350B100L1A	---	
	Output OHL (lbs.)	5003	5462	5343	5149	5577	056C350B100LKA	140C350B100LKA	180C350B100LKA	---	
125	Output RPM	19.74	13.82	11.45	9.24	6.87	056C350T125S1A	140C350T125S1A	180C350T125S1A	---	Taper Hollow Str. Hollow K1 L1 LK
	Mechanical Input HP	4.42	3.51	3.04	2.49	1.91	056C350S125S1A	140C350S125S1A	180C350S125S1A	---	
	Output Torque (lb. in.)	11391	12652	13057	13069	13069	056C350B125K1A	140C350B125K1A	180C350B125K1A	---	
	Output HP Rating	3.57	2.77	2.37	1.92	1.42	056C350B125L1A	140C350B125L1A	180C350B125L1A	---	
	Output OHL (lbs.)	5541	5339	5176	5651	5886	056C350B125LKA	140C350B125LKA	180C350B125LKA	---	
150	Output RPM	16.45	11.51	9.54	7.70	5.72	056C350T150S1A	140C350T150S1A	180C350T150S1A	---	Taper Hollow Str. Hollow K1 L1 LK
	Mechanical Input HP	4.03	3.08	2.62	2.15	1.65	056C350S150S1A	140C350S150S1A	180C350S150S1A	---	
	Output Torque (lb. in.)	12156	12891	13069	13069	13069	056C350B150K1A	140C350B150K1A	180C350B150K1A	---	
	Output HP Rating	3.17	2.35	1.98	1.60	1.19	056C350B150L1A	140C350B150L1A	180C350B150L1A	---	
	Output OHL (lbs.)	5478	5207	5702	5539	5780	056C350B150LKA	140C350B150LKA	180C350B150LKA	---	
160	Output RPM	15.41	10.79	8.94	7.21	5.36	056C350T160S1A	140C350T160S1A	---	---	Taper Hollow Str. Hollow K1 L1 LK
	Mechanical Input HP	3.20	2.70	2.46	2.20	1.63	056C350S160S1A	140C350S160S1A	---	---	
	Output Torque (lb. in.)	9561	11116	12025	13069	13069	056C350B160K1A	140C350B160K1A	---	---	
	Output HP Rating	2.34	1.90	1.71	1.50	1.11	056C350B160L1A	140C350B160L1A	---	---	
	Output OHL (lbs.)	5495	5829	4942	5590	5777	056C350B160LKA	140C350B160LKA	---	---	
200	Output RPM	12.34	8.63	7.15	5.77	4.29	056C350T200S1A	140C350T200S1A	---	---	Taper Hollow Str. Hollow K1 L1 LK
	Mechanical Input HP	3.20	2.55	2.15	1.77	1.31	056C350S200S1A	140C350S200S1A	---	---	
	Output Torque (lb. in.)	11944	13069	13069	13069	13069	056C350B200K1A	140C350B200K1A	---	---	
	Output HP Rating	2.34	1.79	1.48	1.20	0.89	056C350B200L1A	140C350B200L1A	---	---	
	Output OHL (lbs.)	5361	5766	4585	5891	6259	056C350B200LKA	140C350B200LKA	---	---	
240	Output RPM	10.27	7.19	5.96	4.81	3.58	056C350T240S1A	140C350T240S1A	---	---	Taper Hollow Str. Hollow K1 L1 LK
	Mechanical Input HP	2.39	1.85	1.73	1.57	1.28	056C350S240S1A	140C350S240S1A	---	---	
	Output Torque (lb. in.)	9831	10340	11475	12539	13069	056C350B240K1A	140C350B240K1A	---	---	
	Output HP Rating	1.60	1.18	1.08	0.96	0.74	056C350B240L1A	140C350B240L1A	---	---	
	Output OHL (lbs.)	5864	5731	5407	5856	6326	056C350B240LKA	140C350B240LKA	---	---	
300	Output RPM	8.22	5.76	4.77	3.85	2.86	056C350T300S1A	140C350T300S1A	---	---	Taper Hollow Str. Hollow K1 L1 LK
	Mechanical Input HP	2.39	1.85	1.58	1.32	1.03	056C350S300S1A	140C350S300S1A	---	---	
	Output Torque (lb. in.)	12282	12918	13069	13069	13069	056C350B300K1A	140C350B300K1A	---	---	
	Output HP Rating	1.60	1.18	0.99	0.80	0.59	056C350B300L1A	140C350B300L1A	---	---	
	Output OHL (lbs.)	5760	5976	5104	6341	6167	056C350B300LKA	140C350B300LKA	---	---	

NOTE: All units include drilled and tapped mounting holes on the top and bottom surfaces. If optional bolt-on foot is required, order part number 6011277

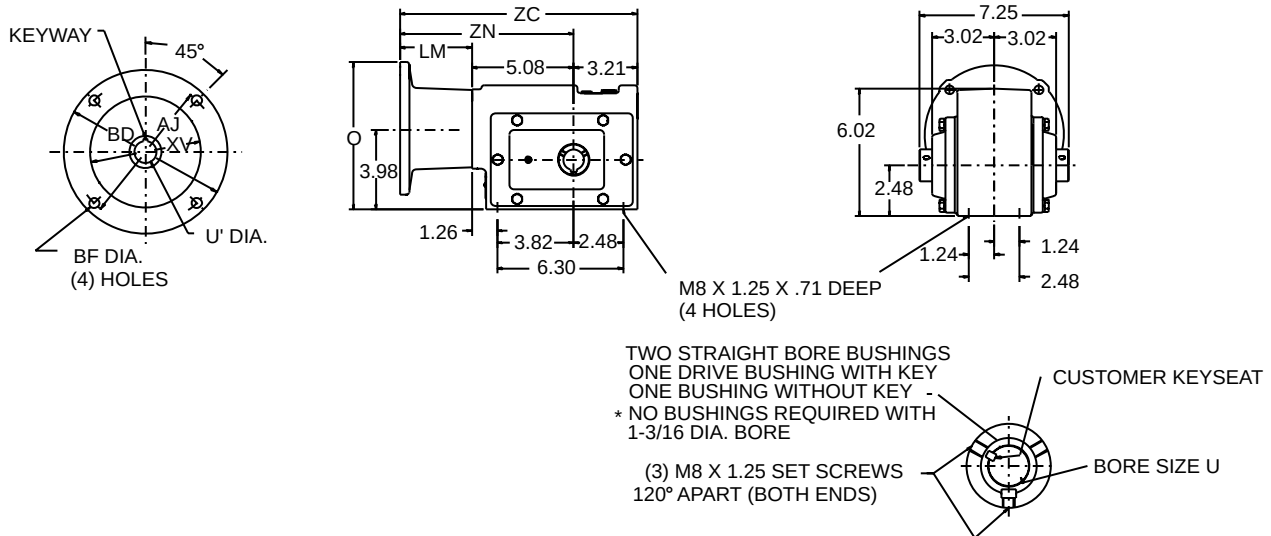
Combination TIGEAR Size C150 HOLLOW SHAFT - TAPERED BUSHING



Frame Size	AJ	BD	BF	U'		Keyway	XV (TENON)	ZC	O	LM	ZN
				Min.	Max.						
56C	5.88	6.72	0.44	0.626	0.627	3/16 X 3/32	4.501/4.503	11.89	7.34	3.60	8.68
140TC	5.88	6.72	0.44	0.876	0.877	3/16 X 3/32	4.501/4.503	11.89	7.34	3.60	8.68

U	Customer Keyseat Req'd
1-1/8	1/4 X 1/8 X 7.66
1-1/16	
1-3/16	
1"	8MM X 4MM
25MM	
30MM	

HOLLOW SHAFT - STRAIGHT BORE

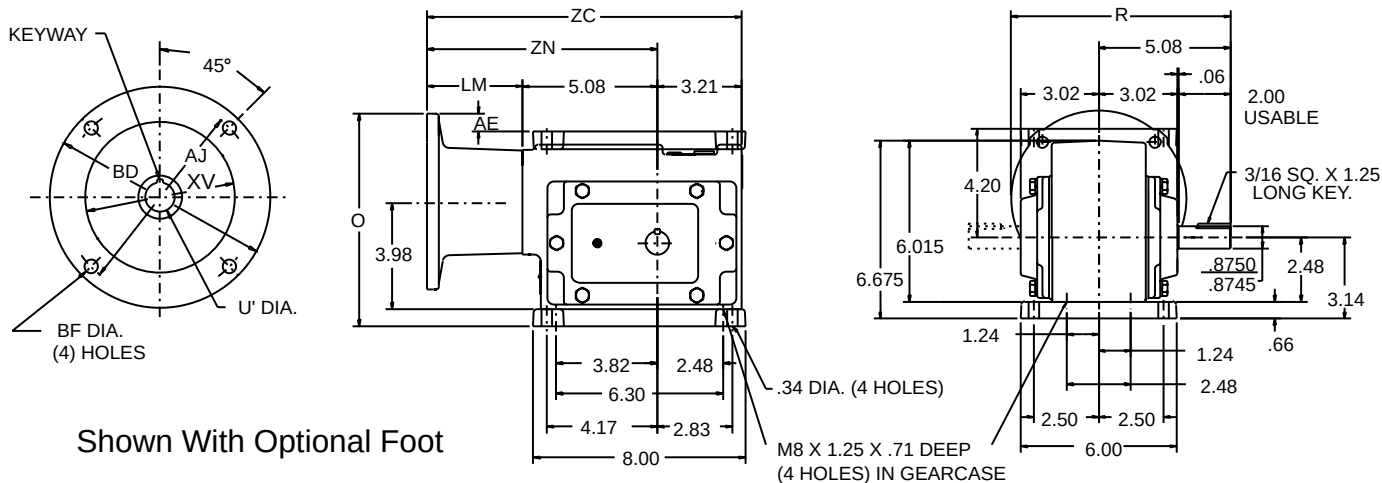


Frame Size	AJ	BD	BF	U'		Keyway	XV (TENON)	ZC	O	LM	ZN
				Min.	Max.						
56C	5.88	6.72	0.44	0.626	0.627	3/16 X 3/32	4.501/4.503	11.89	7.34	3.60	8.68
140TC	5.88	6.72	0.44	0.876	0.877	3/16 X 3/32	4.501/4.503	11.89	7.34	3.60	8.68

U	Customer Keyseat Req'd
1-3/16*	1/4 X 1/8 X 1
1-1/8	
1-1/16	
1	

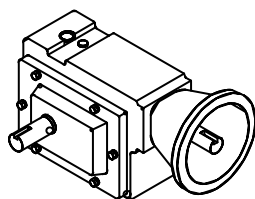
DIMENSIONS / MOUNTING POSITIONS

Combination TIGEAR Size C150 SOLID SHAFT

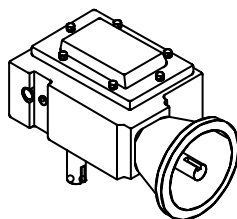


Frame Size	AJ	BD	BF	U'		Keyway	XV (TENON)	ZC	O	LM	ZN	AE	R
				Min.	Max.								
56C	5.88	6.72	0.44	0.626	0.627	3/16 X 3/32	4.501/4.503	11.86	8.00	3.60	8.68	0.66	8.44
140TC	5.88	6.72	0.44	0.876	0.877	3/16 X 3/32	4.501/4.503	11.86	8.00	3.60	8.68	0.66	8.44

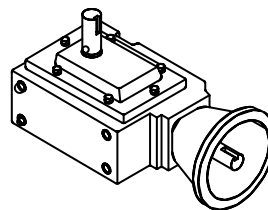
NOTE: All units include drilled and tapped mounting holes on the bottom of the reducer. If optional bolt-on foot is required, order part number 6011246.



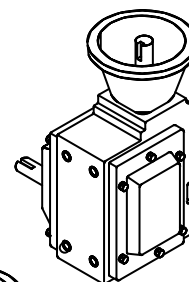
K-1



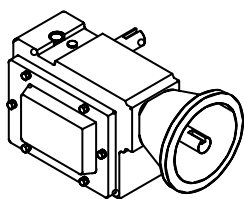
K-2



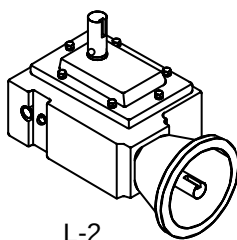
K-4



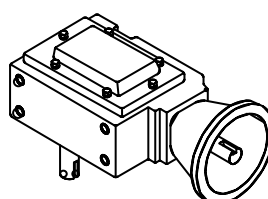
K-5



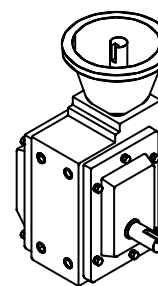
L-1



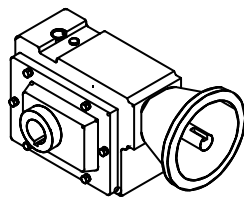
L-2



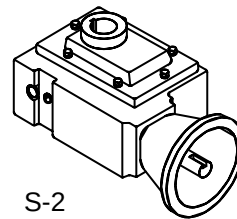
L-4



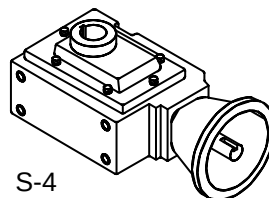
L-5



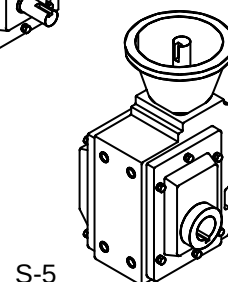
S-1



S-2



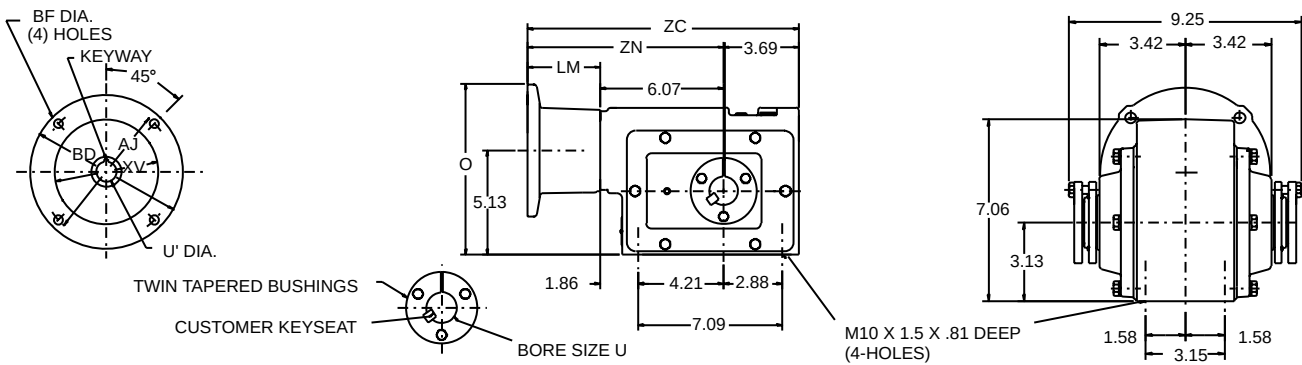
S-4



S-5

For Additional Mounting Positions, Refer To Pages G4-31 and G4-32

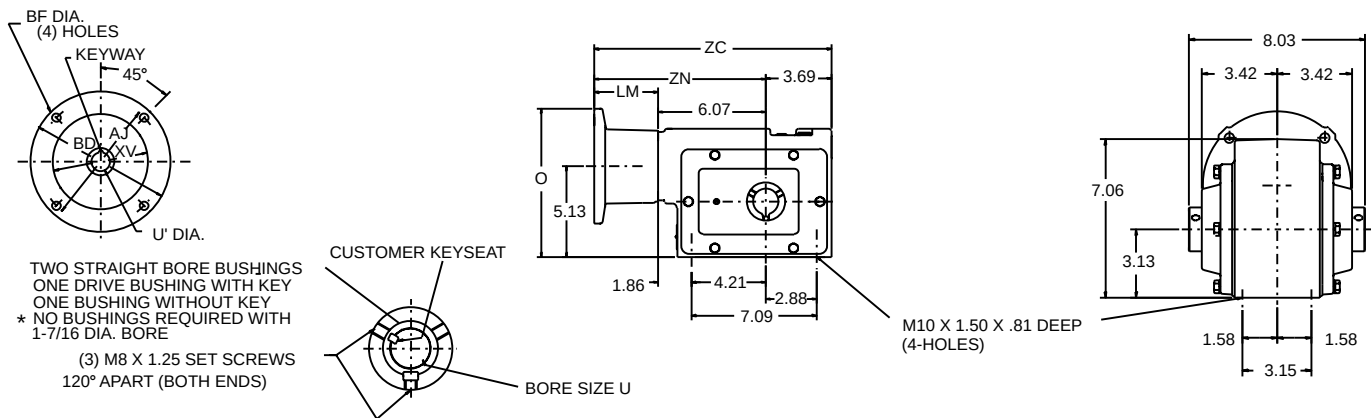
Combination TIGEAR Size C200 HOLLOW SHAFT - TAPERED BUSHING



Frame Size	AJ	BD	BF	U'		Keyway	XV (TENON)	ZC	O	LM	ZN
				Min.	Max.						
56C	5.88	6.72	0.44	0.626	0.627	3/16 X 3/32	4.501/4.503	13.37	8.38	3.60	9.67
140TC	5.88	6.72	0.44	0.876	0.877	3/16 X 3/32	4.501/4.503	13.37	8.38	3.60	9.67
180TC	7.25	9.00	0.53	1.126	1.127	1/4 X 1/8	8.500/8.502	14.41	9.66	4.64	10.71

U	Customer Keyseat Req'd
1-7/16	3/8 X 3/16 X 8.82
1-3/8	5/16 X 5/32 X 8.82
1-5/16	
1-1/4	
1-3/16	
1-1/8	
1-1/16	1/4 X 1/8 X 8.82
1	
35MM	
32MM	
30MM	10MM X 5MM X 225MM
25MM	
25MM	8MM X 4MM X 225MM

HOLLOW SHAFT - STRAIGHT BORE

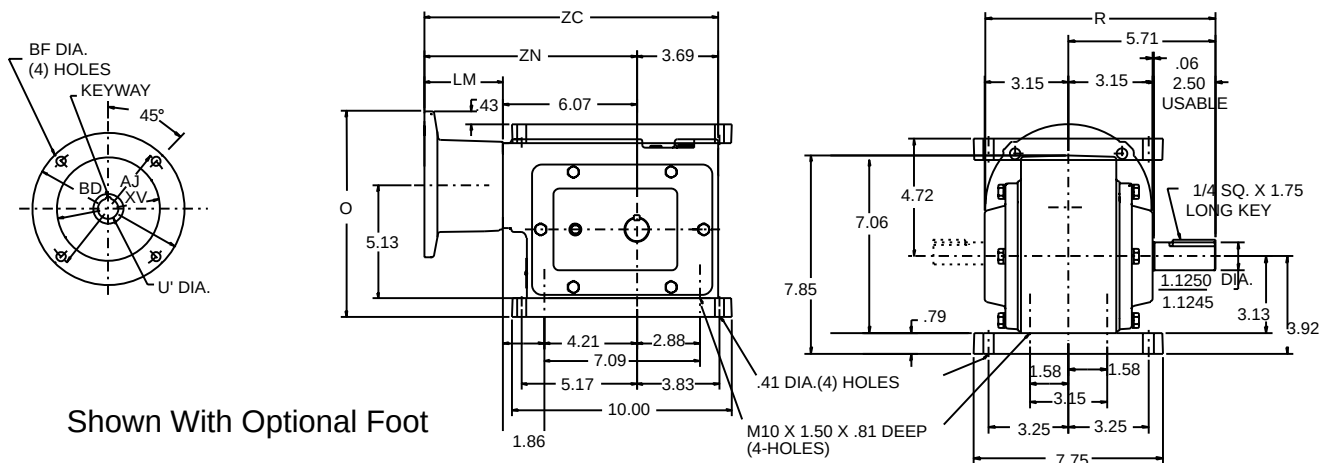


Frame Size	AJ	BD	BF	U'		Keyway	XV (TENON)	ZC	O	LM	ZN
				Min.	Max.						
56C	5.88	6.72	0.44	0.626	0.627	3/16X3/32	4.501/4.503	13.37	8.38	3.60	9.67
140TC	5.88	6.72	0.44	0.876	0.877	3/16 X 3/32	4.501/4.503	13.37	8.38	3.60	9.67
180TC	7.25	9.00	0.53	1.126	1.127	1/4X 1/8	8.500/8.502	14.41	9.66	4.64	10.71

U	Customer Keyseat Req'd
1-7/16*	3/8 X 3/16 X 2
1-5/16	5/16 X 5/32 X 2
1-1/4	1/4X1/8X2
1-3/16	
1-1/8	1/4 X 1/8 X 1-3/4
1-1/16	
1	

DIMENSIONS / MOUNTING POSITIONS

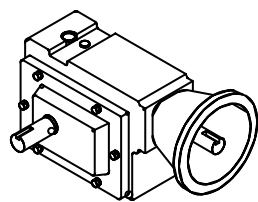
Combination TIGEAR Size C200 SOLID SHAFT



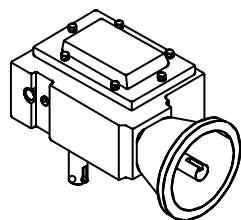
Shown With Optional Foot

Frame Size	AJ	BD	BF	U'		Keyway	XV (TENON)	ZC	O	R	LM	ZN
				Min.	Max.							
56C	5.88	6.72	0.44	0.626	0.627	3/16 X 3/32	4.501/4.503	13.37	9.17	8.96	3.60	9.67
140TC	5.88	6.72	0.44	0.876	0.877	3/16 X 3/32	4.501/4.503	13.37	9.17	8.96	3.60	9.67
180TC	7.25	9.00	0.53	1.126	1.127	1/4 X 1/8	8.500/8.502	14.41	10.45	10.21	4.64	10.71

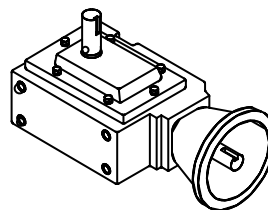
NOTE: All units include drilled and tapped mounting holes on the top and bottom of the reducer. If optional bolt-on foot is required, order part number **6011253**.



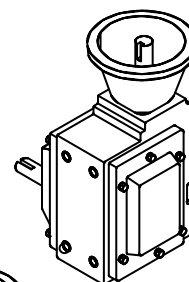
K-1



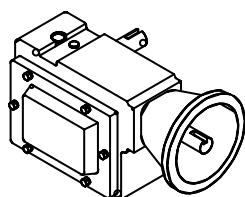
K-2



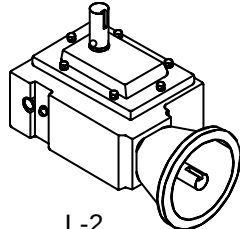
K-4



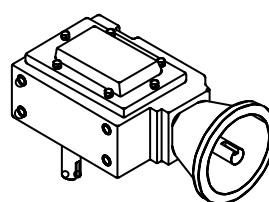
K-5



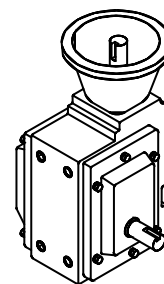
L-1



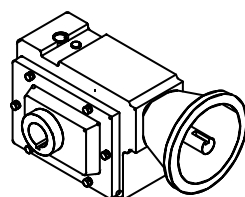
L-2



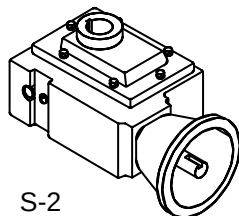
L-4



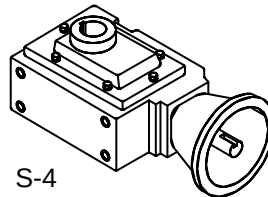
L-5



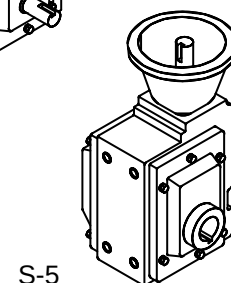
S-1



S-2



S-4

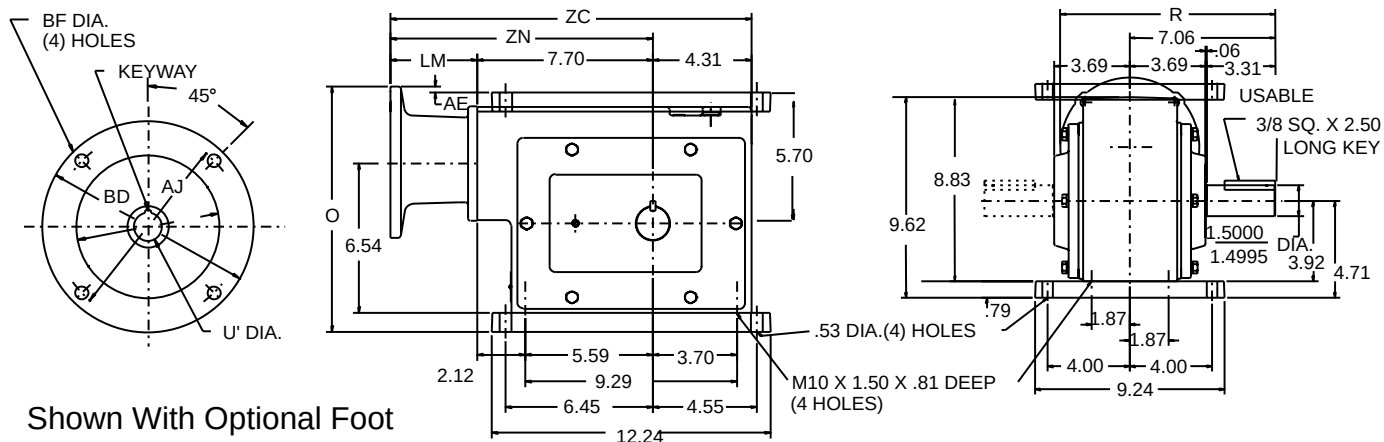


S-5

For Additional Mounting Positions, Refer To Pages G4-31 and G4-32

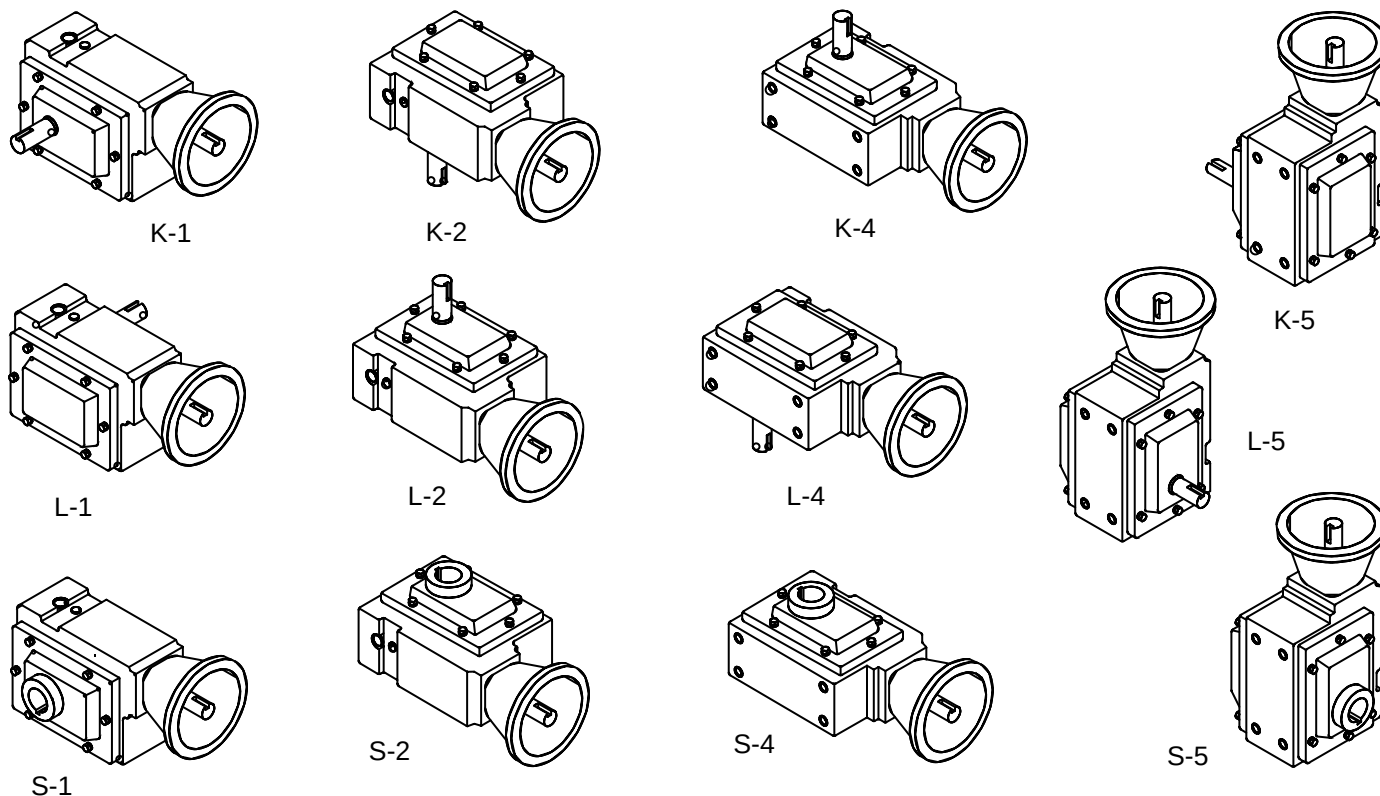
DIMENSIONS / MOUNTING POSITIONS

Combination TIGEAR Size C262 SOLID SHAFT



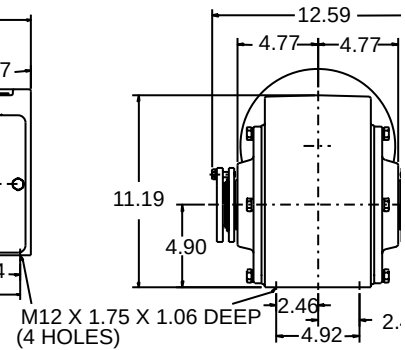
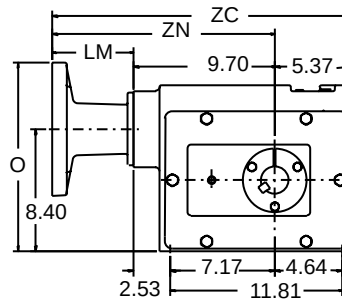
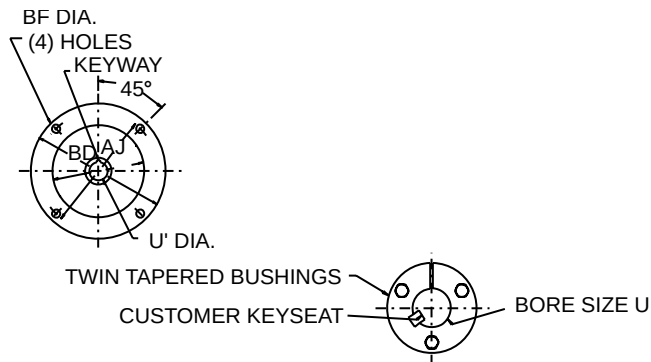
Frame Size	AJ	BD	BF	U'		Keyway	XV (TENON)	ZC	O	R	LM	ZN	AE
				Min.	Max.								
56C	5.88	6.72	0.44	0.626	0.627	3/16 X 3/32	4.501/4.503	15.81	10.69	10.63	3.80	11.50	0.28
140TC	5.88	6.72	0.44	0.876	0.877	3/16 X 3/32	4.501/4.503	15.81	10.69	10.63	3.80	11.50	0.28
180TC	7.25	9.00	0.53	1.126	1.127	1/4 X 1/8	8.500/8.502	16.81	11.83	11.78	4.80	12.50	1.42

NOTE: All units include drilled and tapped mounting holes on the top and bottom of the reducer. If optional bolt-on foot is required, order part number **6011260**.



For Additional Mounting Positions, Refer To Pages G4-31 and G4-32

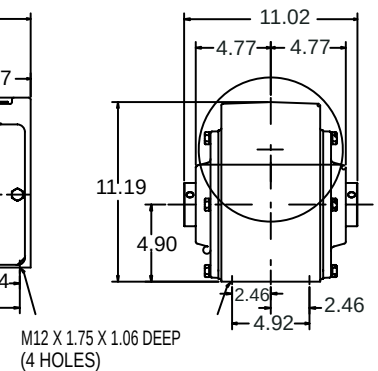
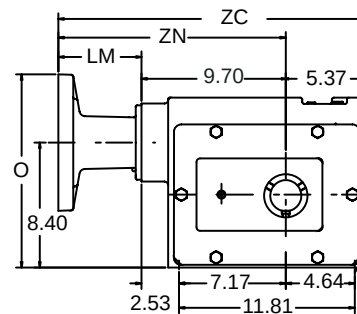
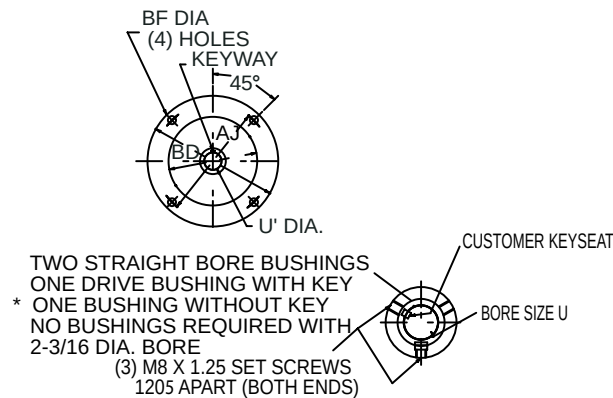
Combination TIGEAR Size C350 HOLLOW SHAFT - TAPERED BUSHING



Frame Size	AJ	BD	BF	U'		Keyway	XV (TENON)	ZC	O	LM	ZN
				Min.	Max.						
56C	5.88	6.72	0.44	0.626	0.627	3/16 X 3/32	4.501/4.503	18.87	11.76	3.80	13.50
140TC	5.88	6.72	0.44	0.876	0.877	3/16 X 3/32	4.501/4.503	18.87	11.76	3.80	13.50
180TC	7.25	9.00	0.53	1.126	1.127	1/4 X 1/8	8.500/8.502	19.87	12.90	4.80	14.50
210TC	7.25	9.00	0.53	1.376	1.377	5/16 X 5/32	8.500/8.502	20.37	12.90	5.30	15.00

U	Customer Keyseat Req'd
2-3/16 MAX	
2	
1-15/16	1/2 X 1/4 X 12.09
1-7/8	
1-3/4	
1-11/16	
1-5/8	3/8 X 3/16 X 12.09
1-1/2	
1-7/16	
1-3/8	
1-5/16	5/16 X 5/32 X 9.81
55MM	16MM X 6MM X 307MM
50MM	
45MM	14MM X 6MM X 307MM
42MM	
40MM	
38MM	12MM X 5MM X 307MM

HOLLOW SHAFT - STRAIGHT BORE

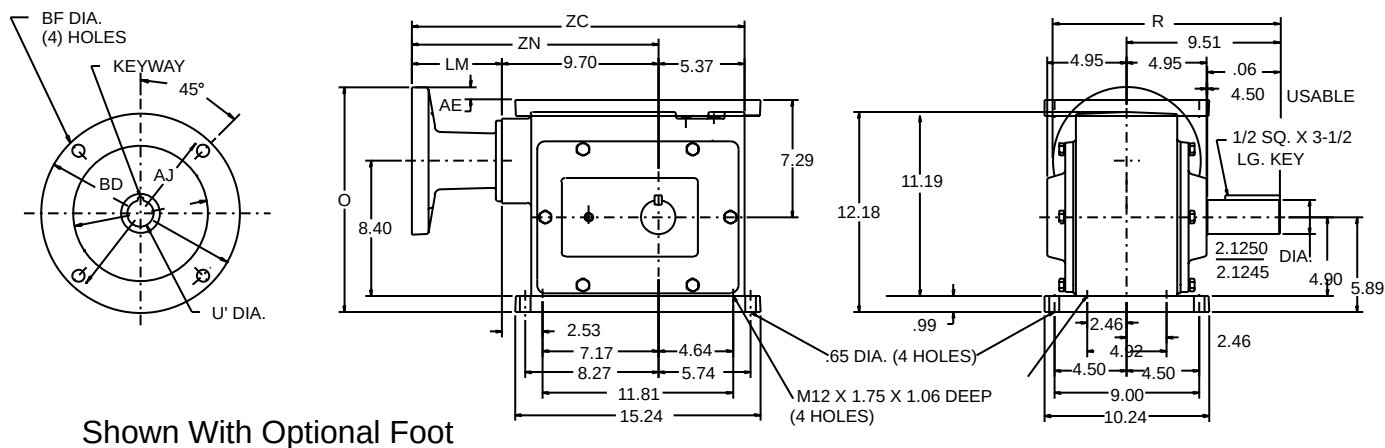


Frame Size	AJ	BD	BF	U'		Keyway	XV (TENON)	ZC	O	LM	ZN
				Min.	Max.						
56C	5.88	6.72	0.44	0.626	0.627	3/16 X 3/32	4.501/4.503	18.87	11.76	3.80	13.50
140TC	5.88	6.72	0.44	0.876	0.877	3/16 X 3/32	4.501/4.503	18.87	11.76	3.80	13.50
180TC	7.25	9.00	0.53	1.126	1.127	1/4 X 1/8	8.500/8.502	19.87	12.90	4.80	14.50
210TC	7.25	9.00	0.53	1.376	1.377	5/16 X 5/32	8.500/8.502	20.37	12.90	5.30	15.00

U	Customer Keyseat Req'd
2-3/16*	
2	
1-15/16	1/2 X 1/4 X 3-5/8
1-7/8	
1-3/4	
1-11/16	3/8 X 3/16 X 3-1/4
1-5/8	
1-1/2	3/8 X 3/16 X 2-1/4
1-7/16	
1-3/8	
1-5/16	5/16 X 5/32 X 2-1/4

DIMENSIONS / MOUNTING POSITIONS

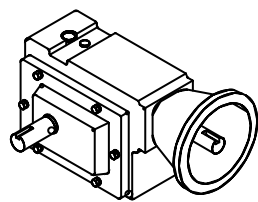
Combination TIGEAR Size C350



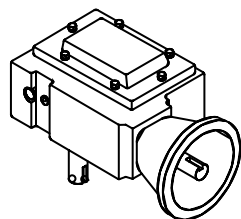
Shown With Optional Foot

Frame Size	AJ	BD	BF	U'		Keyway	XV (TENON)	ZC	O	R	LM	ZN	AE
				Min.	Max.								
56C	5.88	6.72	0.44	0.626	0.627	3/16 X 3/32	4.501/4.503	18.87	12.75	12.97	3.80	13.50	-0.43
140TC	5.88	6.72	0.44	0.876	0.877	3/16 X 3/32	4.501/4.503	18.87	12.75	12.97	3.80	13.50	-0.43
180TC	7.25	9.00	0.53	1.126	1.127	1/4 X 1/8	8.500/8.502	19.87	13.89	14.18	4.80	14.50	0.71
210TC	7.25	9.00	0.53	1.376	1.377	5/16 X 5/32	8.500/8.502	20.37	13.89	14.18	5.30	15.00	0.71

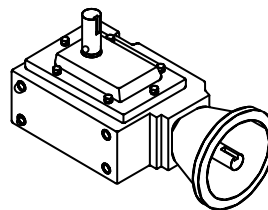
NOTE: All units include drilled and tapped mounting holes on the top and bottom of the reducer. If optional bolt-on foot is required, order part number **6011277**.



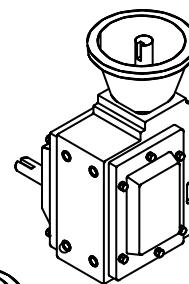
K-1



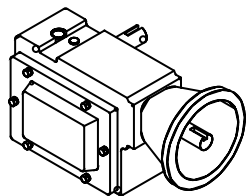
K-2



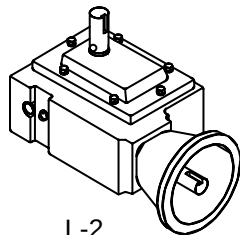
K-4



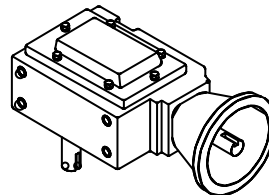
K-5



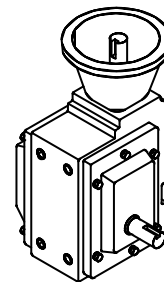
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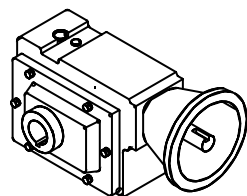
L-2



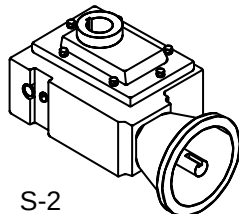
L-4



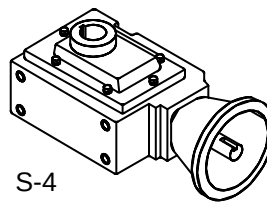
L-5



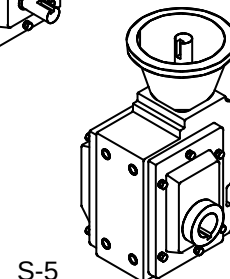
S-1



S-2



S-4



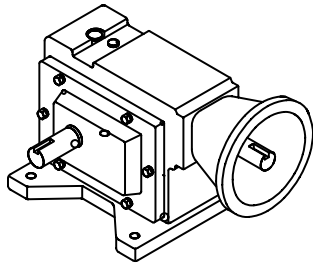
S-5

For Additional Mounting Positions, Refer To Pages G4-31 and G4-32

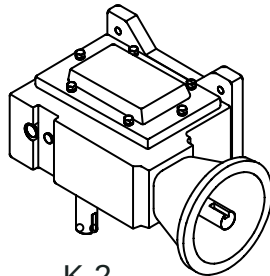
Combination TIGEAR

(SHOWN WITH OPTIONAL BOLT-ON FOOT)

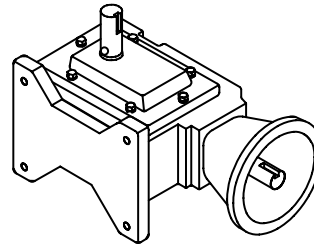
Foot On Bottom



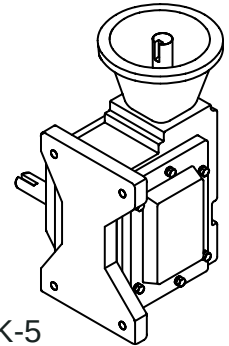
K-1



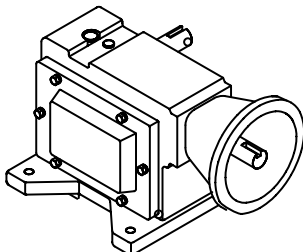
K-2



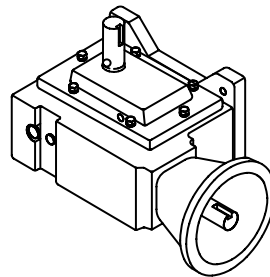
K-4



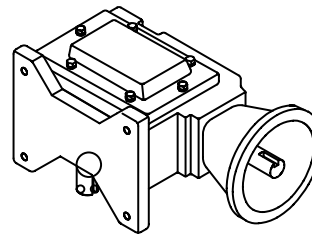
K-5



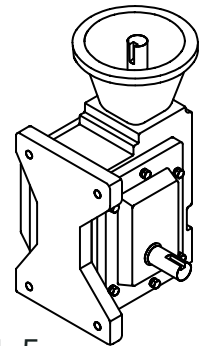
L-1



L-2

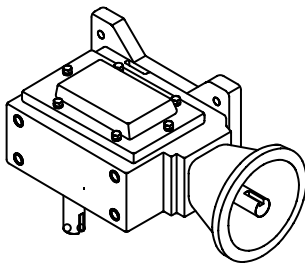


L-4

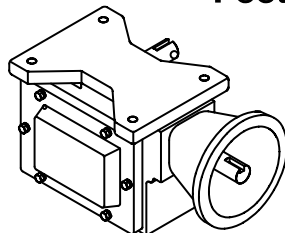


L-5

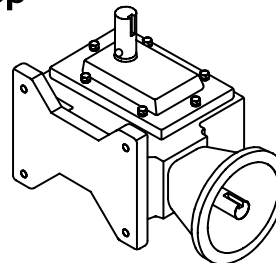
Foot On Top



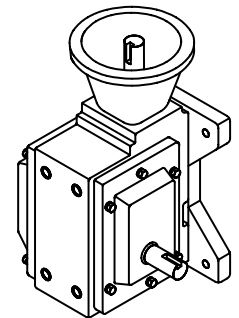
A-1



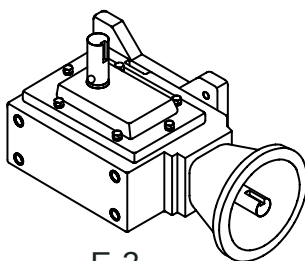
A-3



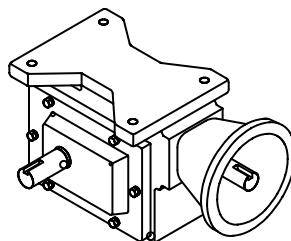
A-4



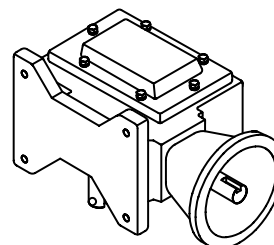
A-5



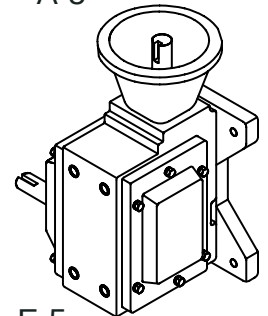
E-2



E-3



E-4



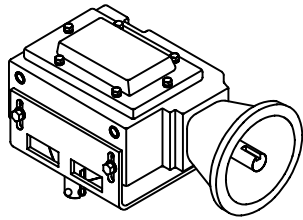
E-5

MOUNTING POSITIONS

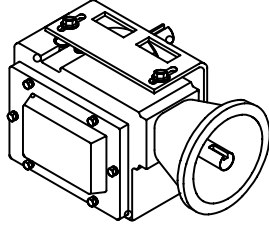
Combination TIGEAR

(SHOWN WITH OPTIONAL BOLT-ON FOOT)

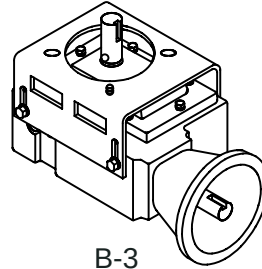
Solid Output Shaft



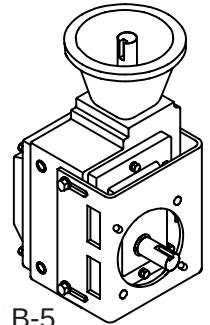
B-1



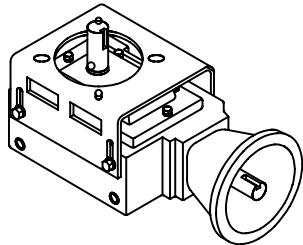
B-2



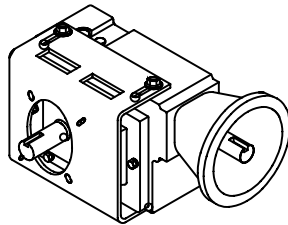
B-3



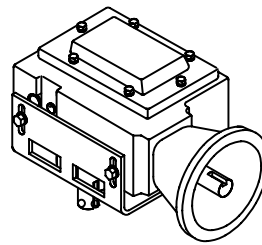
B-5



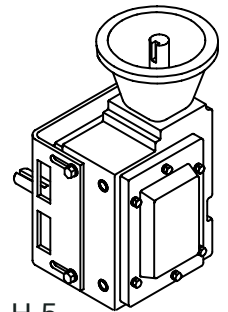
H-3



H-4

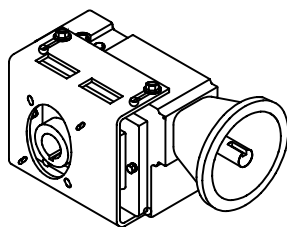


H-1

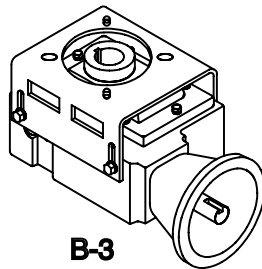


H-5

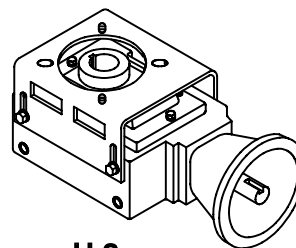
Hollow Output Shaft



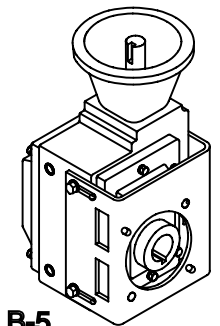
H-4



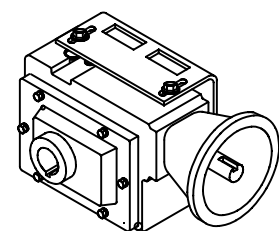
B-3



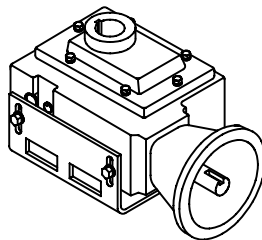
H-3



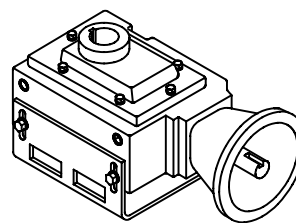
B-5



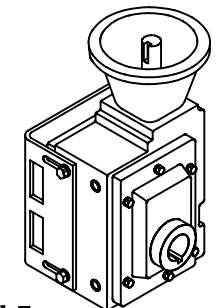
B-2



H-1



B-1



H-5

Introduction

DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

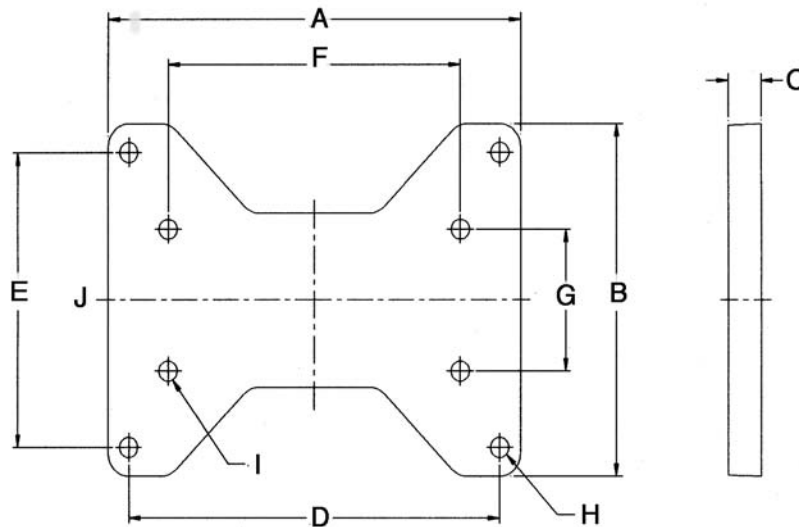
REEVES ULTIMA

Combination TIGEAR BOLT-ON FOOT



All Combination TIGEAR units include drilled and tapped mounting holes on the bottom of the reducer, but do not include the base. Kits listed below include a cast iron bolt-on-foot and the required mounting hardware.

Reducer Case Size	Kit Number
150	6011246
200	6011253
262	6011260
350	6011277



Size	A	B	C	D	E	F	G	H	I	J
150	8.00	6.00	0.66	7.00	5.00	6.30	2.48	0.34	0.38	3.29
200	10.00	7.76	0.79	9.00	6.50	7.09	3.15	0.41	0.41	3.55
262	12.24	9.24	0.79	11.00	8.00	9.29	3.74	0.53	0.41	4.53
350	15.24	10.24	0.99	14.00	9.00	11.81	4.92	0.65	0.50	5.94

Combination TIGEAR TIE ROD KIT

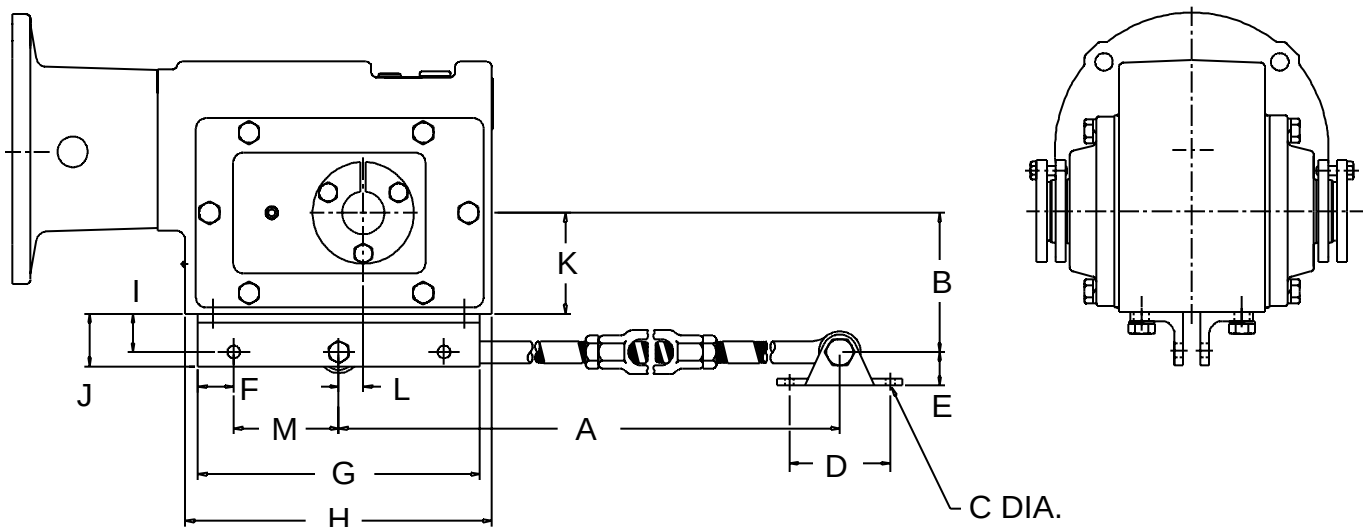


The Tie Rod Kit is available for restraining Straight Bore and Tapered Bore Hollow Shaft Reducers. Each kit includes reducer mounting brackets, tie rods, turnbuckle, fulcrum and mounting hardware.

Reducer Case Size	Tie Rod Kit	Mounting Brackets Only Includes Hardware
150	6009878	6009861
200	6002503	6009885
262	6009915	6009908
350	6009953	6009922

	A Min. - Max.	B	C	D	E	F
C150	14.75 - 17.75	3.57	0.39	2.50	0.94	1.13
C200	14.75 - 17.75	4.22	0.39	2.50	0.94	1.37
C262	14.75 - 17.75	5.01	0.39	2.50	0.94	0.95
C350	19.50 - 25.50	5.83	0.45	3.00	1.06	1.50

	G	H	I	J	K	L
C150	7.25	7.58	1.09	1.25	2.48	0.60
C200	8.00	8.70	1.09	1.50	3.13	0.68
C262	9.75	10.52	1.09	1.50	3.92	0.94
C350	13.00	13.27	0.93	1.50	4.90	1.26



Combination TIGEAR OUTPUT FLANGE

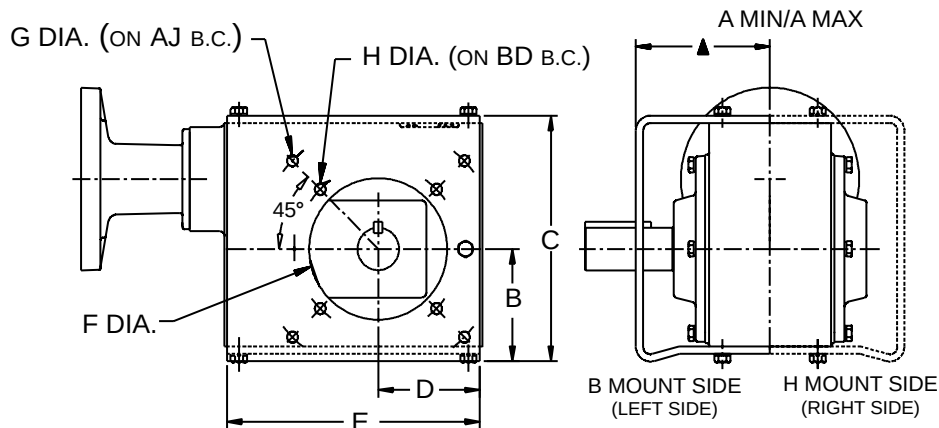


The Output Flange Kit is used to mount the reducer to a flat surface perpendicular to the output shaft. On Hollow Shaft units, an output flange may be substituted for a tie rod kit to restrain reactions. Each kit consists of a fabricated steel flange and required mounting hardware.

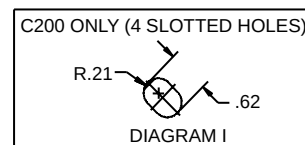
Case Size	Kit Model No. (B Mtg.)	Kit Model No. (H Mtg.)
C150	6011710	6011673
C200	6011727	6011680
C262	6011734	6011697
C350	6011741	6011703

Case Size	A Min.	A Max.	BF	AJ
C150	3.27	5.50	4.00	5.12
C200	3.60	6.21	*6.31	N/A
C262	4.26	6.93	6.51	8.51
C350	5.40	8.21	8.46	12.50

Case Size	B	C	D	E	F Dia.	G Dia. (Typ.)	H Dia. (Typ.)
C150	2.68	6.42	2.98	7.30	3.12	0.36	0.41
C200	3.41	7.59	3.63	8.50	5.12	SEE DIAGRAM 1	
C262	4.24	9.47	4.18	10.25	5.12	0.54	0.41
C350	5.28	11.95	5.23	13.00	7.09	0.56	0.56



* BOLT CIRCLE TO CENTER OF SLOT
NOTE: 1) FLANGE DIMENSIONS THE SAME
FOR ALL SHAFT CONFIGURATIONS



Combination TIGEAR RISER BLOCK KITS

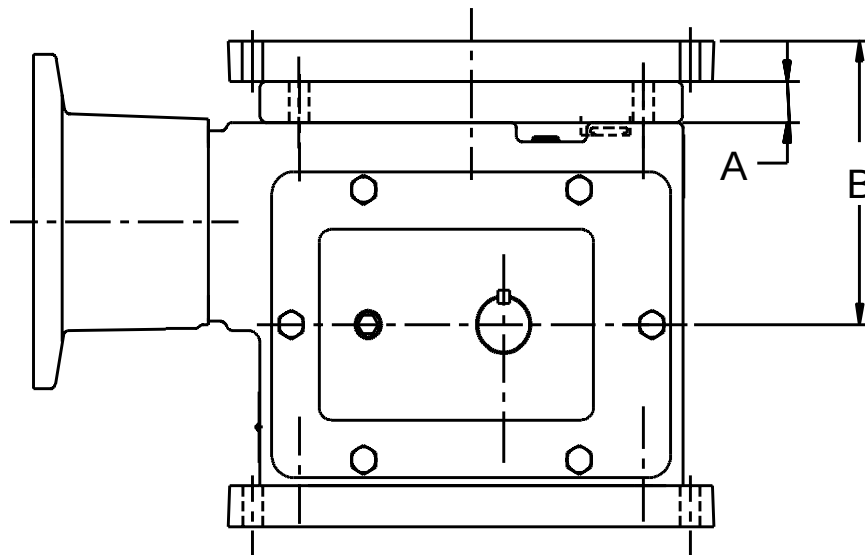


Riser blocks allow clearance over the motor eliminating the need to invert the reducer (worm under) when the application calls for a "ceiling" mount such as under a conveyor or other equipment. Riser blocks permit the reducer to be mounted in the most desirable position keeping the high speed shaft seal above the oil level. Experience shows that this results in increased seal life and durability. Each kit includes the riser block and required mounting hardware.

Case Size	Motor Frame Size	Kit Model Number	"B" (MM)	"B" (In) +.00/-.02 .02	"A" Riser Block (In)
C150	56/140	6011789	140	5.51	1.29
C200	56/140	6011796	140	5.51	0.77
	180	6011987	180	7.09	2.35
C262	56/140	6011802	160	6.30	0.58
	180	6011994	200	7.87	2.15
C350	56/140	6011819	200	7.87	0.57
	180/210	6012007	225	8.86	1.56

Note: Dimension B includes optional Bolt-On Foot

DODGE COMBINATION TIGEAR

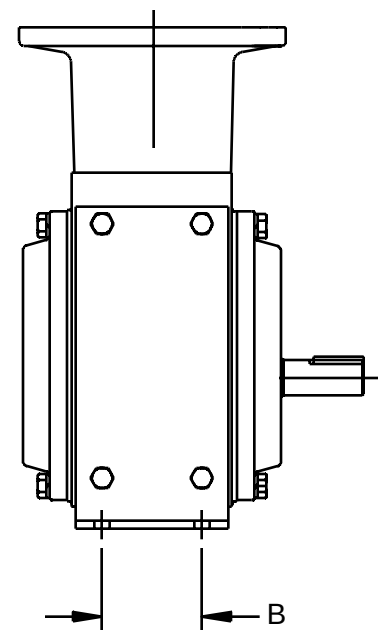
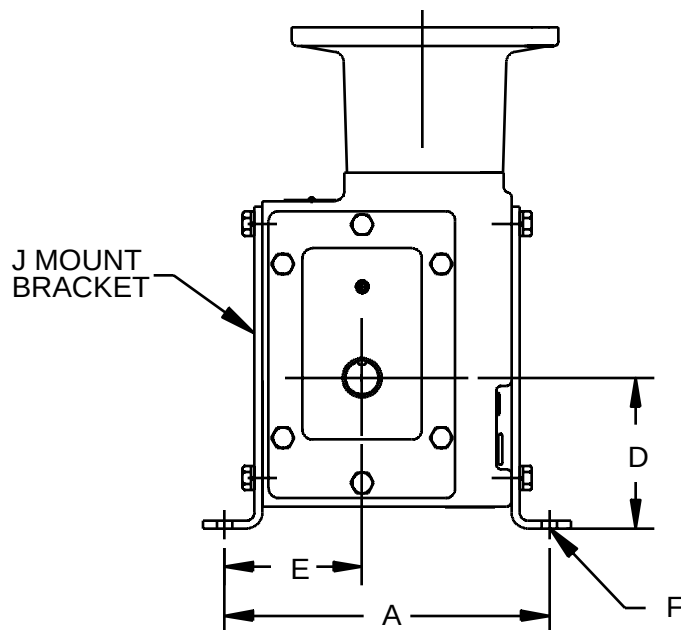


Combination TIGEAR J-MOUNT KITS



J-mount kits allow the reducer to be “floor” mounted with the motor in a vertical (up) position. In this configuration, the output shaft(s) is horizontal. Each kit includes two brackets and the required mounting hardware.

Case Size	Kit No.	A	B	D	E	F (Bolt)
C150	6011826	200MM 8	63MM 2	90MM 4	86.4MM 3	8MM 5/16"
C200	6011833	250MM 10	80MM 3	100MM 4	114.8MM 5	10MM 3/8"
C262	6011840	315MM 12	100MM 4	125MM 5	144MM 6	10MM 3/8"
C350	6011857	400MM 16	125MM 5	160MM 6	182.4MM 7	12MM 1/2"

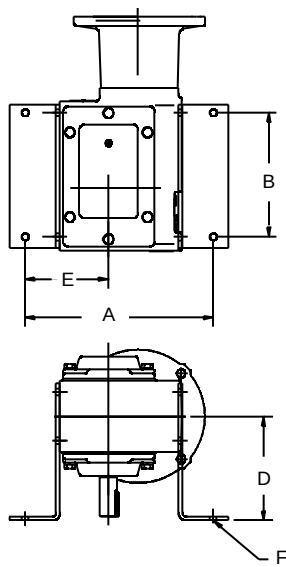


MODIFICATIONS / ACCESSORIES

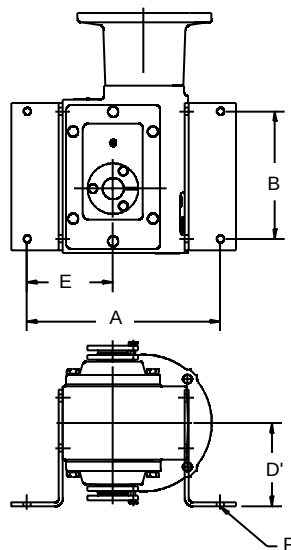
Combination TIGEAR HI-LOW BRACKET KITS

Case Size	Description	Kit Number	A	B	D	D'	D''	E	F (Bolt)
C150	"Hi" Mount Solid Shaft	6011864	200MM 7.87"	160MM 6.30"	140MM 5.51"	N/A	N/A	86.4MM 3.40"	8MM 5/16"
	"Hi" Mount Hollow Shaft	6011871			N/A	112MM 4.41"	N/A		
	"Low" Mount Hollow & Solid Shaft	6011888			N/A	N/A	90MM 3.54"		
C200	"Hi" Mount Solid Shaft	6011895	250MM 9.84"	180MM 7.09"	160MM 6.30"	N/A	N/A	114.8MM 4.52"	10MM 3/8"
	"Hi" Mount Hollow Shaft	6011901			N/A	125MM 4.92"	N/A		
	"Low" Mount Hollow & Solid Shaft	6011918			N/A	N/A	90MM 3.54"		
C262	"Hi" Mount Solid Shaft	6011925	315MM 12.40"	236MM 9.29"	200MM 7.87"	N/A	N/A	145MM 5.71"	10MM 3/8"
	"Hi" Mount Hollow Shaft	6011932			N/A	140MM 5.51"	N/A		
	"Low" Mount Hollow & Solid Shaft	6011949			N/A	N/A	112MM 4.41"		
C350	"Hi" Mount Solid Shaft	6011956	400MM 15.75"	300MM 11.81"	250MM 9.84"	N/A	N/A	182.4MM 7.18"	12MM 1/2"
	"Hi" Mount Hollow Shaft	6011963			N/A	180MM 7.09"	N/A		
	"Low" Mount Hollow & Solid Shaft	6011970			N/A	N/A	140MM 5.51"		

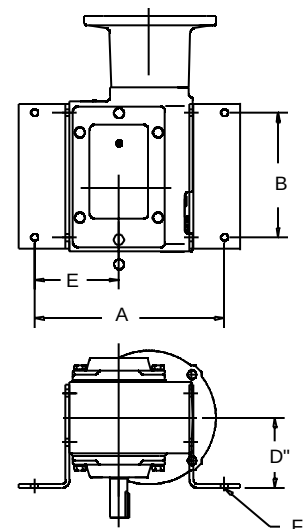
"Hi" Bracket - Solid Shaft



"Hi" Bracket - Hollow Shaft
(Straight & Tapered)



"Low" Bracket
Hollow & Solid Shaft



Combination TIGEAR STRAIGHT BORE BUSHING KITS



Bushing kits are not included with reducers. They must be ordered separately by indicating the bore size or the kit number from the table. Each kit includes two bushings and the required mounting hardware.

Straight Bore Bushing Kits

Reducer Size	Bore Size	Kit Number	Reducer Size	Bore Size	Kit Number
C150	1	6011475	C262	1 5/8	6011543
	1 1/16	6011772		1 11/16	6011550
	1 1/8	6011758		1 3/4	6011567
	1 3/16	*		1 15/16	*
C200	1	6002602	C350	1 5/16	6011574
	1 1/16	6002619		1 3/8	6011581
	1 1/8	6002626		1 7/16	6011598
	1 3/16	6002633		1 1/2	6011604
	1 1/4	6002640		1 5/8	6011611
	1 5/16	6002657		1 11/16	6011628
	1 7/16	*		1 3/4	6011635
C262	1 3/16	6011482		1 7/8	6011642
	1 1/4	6011499		1 15/16	6011659
	1 5/16	6011505		2	6011666
	1 3/8	6011512		2 3/16	*
	1 7/16	6011529			
	1 1/2	6011536			

* Reducers are shipped from the factory as maximum bore. For other bore sizes, order the appropriate kit from the above chart.

Combination TIGEAR TAPERED BUSHING KITS



Bushing kits are not included with reducers. They must be ordered separately by indicating the bore size or the kit number from the table. Each kit includes two bushings and the required mounting hardware. Optional Teflon Coated bushings are available for those applications requiring extra protection in corrosive and wet environments. For ease of ordering, refer to the table below.

TAPERED BUSHING KITS

Reducer Size	Bore Size	Kit Number	Reducer Size	Bore Size	Kit Number
C150	1	6011000	C262	1 11/16	6011031
	1 1/16	6011765		1 3/4	6011024
	1 1/8	6010997		1 15/16	6011017
	1 3/16	6011284		32 MM	6011352
	25 MM	6011291		35 MM	6011369
	30 MM	6011307		38 MM	6011376
C200	1	6002510	C350	40 MM	6011383
	1 1/16	6002527		42 MM	6011390
	1 1/8	6002534		45 MM	6011406
	1 3/16	6002541		1 5/16	6011222
	1 1/4	6002558		1 3/8	6011215
	1 5/16	6002565		1 7/16	6011208
	1 3/8	6002572		1 1/2	6011192
	1 7/16	6002589		1 5/8	6011185
	25 MM	6011314		1 11/16	6011178
	30 MM	6011321		1 3/4	6011161
C262	32 MM	6011338		1 7/8	6011154
	35 MM	6011345		1 15/16	6011147
	1 1/8	6011116		2	6011130
	1 3/16	6011109		2 3/16	6011123
	1 1/4	6011093		38 MM	6011413
	1 5/16	6011086		40 MM	6011420
	1 3/8	6011079		42 MM	6011437
	1 7/16	6011062		45 MM	6011444
	1 1/2	6011055		50 MM	6011451
	1 5/8	6011048		55 MM	6011468

TEFLON COATED TAPERED BUSHING KITS

Reducer Size	Bore Size	Kit Number	Reducer Size	Bore Size	Kit Number
C150	1	6031121	C262	1 11/16	6031381
	1 1/16	6031138		1 3/4	6031398
	1 1/8	6031145		1 15/16	6031404
	1 3/16	6031152		32 MM	6031411
	25 MM	6031169		35 MM	6031428
	30 MM	6031176		38 MM	6031435
C200	1	6031183	C350	40 MM	6031442
	1 1/16	6031190		42 MM	6031459
	1 1/8	6031206		45 MM	6031466
	1 3/16	6031213		1 5/16	6031473
	1 1/4	6031220		1 3/8	6031480
	1 5/16	6031237		1 7/16	6031497
	1 3/8	6031244		1 1/2	6031503
	1 7/16	6031251		1 5/8	6031510
	25 MM	6031268		1 11/16	6031527
	30 MM	6031275		1 3/4	6031534
C262	32 MM	6031282		1 7/8	---
	35 MM	6031299		1 15/16	6031541
	1 1/8	6031305		2	6031558
	1 3/16	6031312		2 3/16	6031565
	1 1/4	6031329		38 MM	6031572
	1 5/16	6031336		40 MM	6031589
	1 3/8	6031343		42 MM	6031596
	1 7/16	6031350		45 MM	6031602
	1 1/2	6031367		50 MM	6031619
	1 5/8	6031374		55 MM	6031626

Combination TIGEAR PLUG-IN OUTPUT SHAFT KITS



Plug-In Output Shaft Kits are available to easily convert tapered bored Combination TIGEAR reducers to a solid shaft reducer. Output shafts are available in both standard CRS and stainless steel materials. Kits include shaft and key.

Standard CRS Material

Case Size	Kit Number	*U Dimensions
C150	6031725	1-3/16
C200	6031732	1-7/16
C262	6031749	1-15/16
C350	6031756	2-3/16

* Maximum Bore Bushing

NOTE: Output shaft dimensions same as on solid output shaft reducers

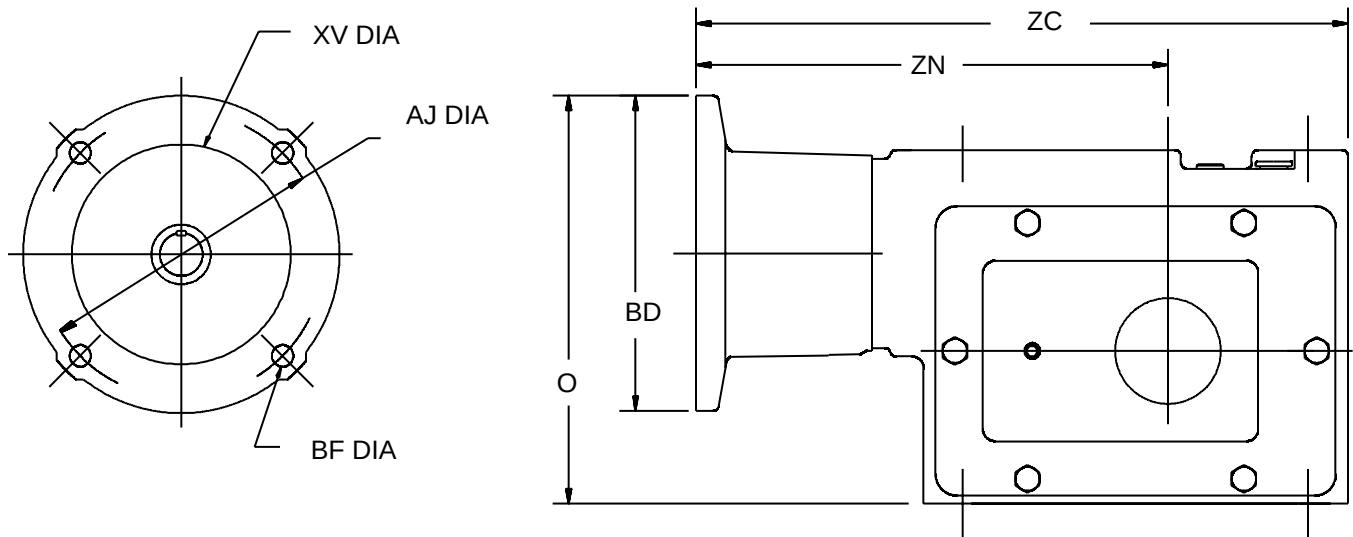
Stainless Steel Material

Case Size	Kit Number	*U Dimensions
C150	6031763	1-3/16
C200	6031770	1-7/16
C262	6031787	1-15/16
C350	6031794	2-3/16

Combination TIGEAR IEC METRIC MOTOR ADAPTERS

IEC Metric motor adapters are available with B5 flanges. To order reducer with metric motor adapter use same part number format found on selection pages and substitute the Nema frame size with a three position IEC frame size. Example: 071C200B030K1A. A flexible 3-piece coupling and motor mounting bolts are also included.

Reducer Size	IEC Frame
C150-C200	IEC71
C150-C200	IEC80
C150-C200	IEC90
C262-C350	IEC71
C262-C350	IEC80
C262-C350	IEC90
C262-C350	IEC100/112
C262-C350	IEC132



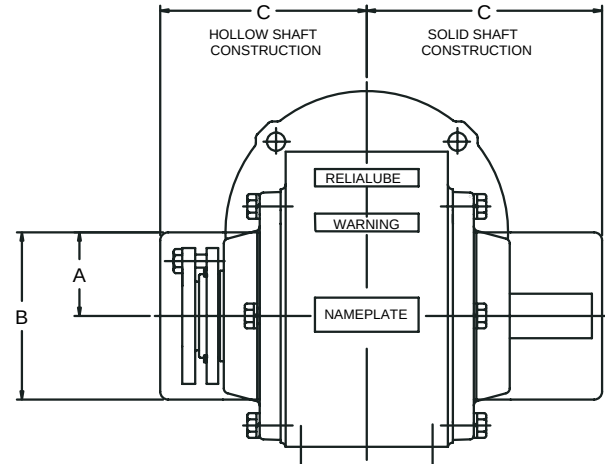
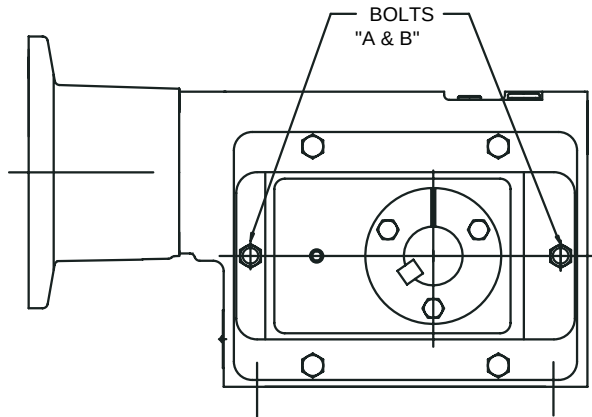
Size	Frame	ZN	ZC	BD	O	AJ	BF	XV
C150	71	7.86	11.07	6.30	7.13	130 MM	M8 TAP	110 MM
	80	8.25	11.46	7.87	7.92	165 MM	11 MM HOLE	130 MM
	90	8.64	11.85	7.87	7.92	165 MM	11 MM HOLE	130 MM
C200	71	8.85	12.54	6.30	7.13	130 MM	M8 TAP	110 MM
	80	9.24	12.93	7.87	7.92	165 MM	11 MM HOLE	130 MM
	90	9.63	13.32	7.87	7.92	165 MM	11 MM HOLE	130 MM
C262	71	10.63	14.94	6.30	7.13	130 MM	M8 TAP	110 MM
	80	11.03	15.34	7.87	7.92	165 MM	11 MM HOLE	130 MM
	90	11.42	15.73	7.87	7.92	165 MM	11 MM HOLE	130 MM
	100/112	13.50	17.81	9.85	8.91	215 MM	14 MM HOLE	180 MM
C350	71	12.63	18.00	6.30	7.13	130 MM	M8 TAP	110 MM
	80	13.03	18.40	7.87	7.92	165 MM	11 MM HOLE	130 MM
	90	13.42	18.79	7.87	7.92	165 MM	11 MM HOLE	130 MM
	110/112	15.50	20.87	9.85	8.91	215 MM	14 MM HOLE	180 MM

Combination TIGEAR STAINLESS STEEL SHAFT GUARDS

Shaft guards are available for both the solid and hollow shaft gear units and provide protection from the rotating solid output shaft and bushings on the hollow shaft reducers. They are installed by removing the two (2) existing bearing housing bolts (A & B) located on the horizontal centerline of the gearcase and placing the same (2) bolts through the shaft guard and

reinstalling to the proper tightening torque. (Bolt torques are listed in Installation Manual)

One (1) piece guards and a two (2) piece guards are available depending on output shaft configuration. **Each kit contains one shaft guard.**



Hollow Shaft Closed Shaft Guard Kits	
Case Size	Model No.
C150	6012052
C200	6012069
C262	6012076
C350	612083

Hollow Shaft			
Case Size	A	B	C
C150	1.44	2.88	4.48
C200	2.00	4.00	4.94
C262	2.22	4.44	5.49
C350	2.37	4.75	6.58

Hollow Shaft Open Shaft Guard Kits	
Case Size	Model No.
C150	6031046
C200	6031053
C262	6031060
C350	6031077

Solid Shaft Closed Shaft Guard Kits	
Case Size	Model No.
C150	6031633
C200	6031640
C262	6031657
C350	6031664

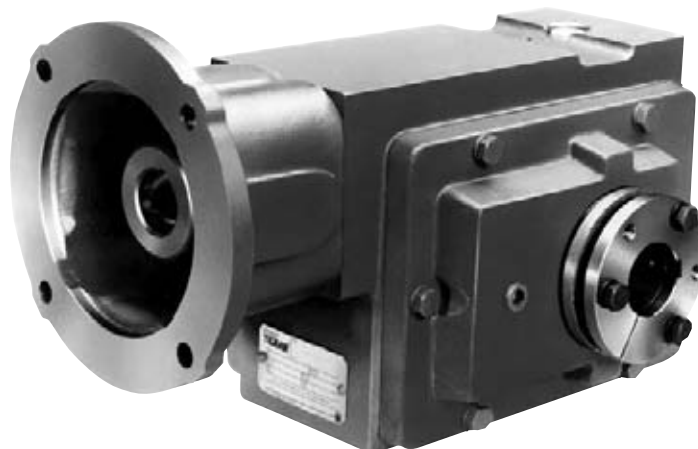
Solid Shaft			
Case Size	A	B	C
C150	1.44	2.88	5.23
C200	2.00	4.00	5.94
C262	2.22	4.44	7.24
C350	2.37	4.75	9.83

Combination TIGEAR

DODGE COMBINATION TIGEAR REBUILD KITS

Rebuild kits consist of all high wear internal components that are routinely replaced when servicing a reducer and provide several benefits when stocked as spare parts at a user location.

- Protection from excessive down time that can occur following unexpected equipment shut-down
- Parts on hand for routine scheduled maintenance
- Packaged kit may be dedicated to a specific machine
- No searching for service components



Note: Rebuild kits in following charts contain items to service both current and previous generations of Combination TIGear. Customer may discard those items in kit that are not in use.

Combination TIGEAR - Solid Shaft - Single Extension

Size	Rebuild Kit	Consists of :				Lube Qty
		Bearing Kit	Seal Kit	Shim Kit	Lubricant	
C150B	41164246EJ	41164250A	41164250AL	41164246CT	41170966AE	2
C200B	41164246EK	41164250B	41164250AM	41164246CU	41170966AF	1
C262B	41164246EL	41164250C	41164250AN	41164246CX	41170966AF	1
C350B	41164246EM	41164250D	41164250AP	41164246CW	41170966AF	2

Combination TIGEAR - Hollow Shaft - Straight Taper Bore

Size	Rebuild Kit	Consists of :				Lube Qty
		Bearing Kit	Seal Kit	Shim Kit	Lubricant	
C150S & T	41164246EN	41164250E	41164250AR	41164246CY	41170966AE	2
C200S & T	41164246EP	41164250F	41164250AS	41164246CZ	41170966AE	2
C262S & T	41164246ER	41164250G	41164250AT	41164246DA	41170966AF	1
C350S & T	41164246ES	41164250H	41164250AV	41164246DB	41170966AF	2

Combination TIGEAR

PAINT - AEROSOL TOUCH UP

To touch-up damaged paint following service you may order Dodge part number 810001 on PTPlace.com. This is a 12 oz aerosol spray can of factory original

Reliance Blue-Green Enamel which allows you to restore a reducer to factory new appearance. Also available in aerosol spray touch-up are epoxy white and stainless steel.



Part Number	Volume	Description/Color
810001	12 oz	Reliance Blue - Green Enamel
810002	12 oz	Epoxy White
810003	13 oz	Stain

C-FACE ADAPTER KITS

Kit includes c-face adapter, coupling set and mounting hardware. Use to replace damaged adapter or to change motor frame size/HP.

Reducer Case Size	Motor Frame Size	Kit Part Number
C150	56C	41164250J
	140TC	41164250K
C200	56C	41164250L
	140TC	41164250M
	180TC	41164250N
C262	56C	41164250P
	140TC	41164250R
	180TC	41164250S
C350	56C	41164250T
	140TC	41164250V
	180TC	41164250W
	210TC	41164250X



COUPLING KITS

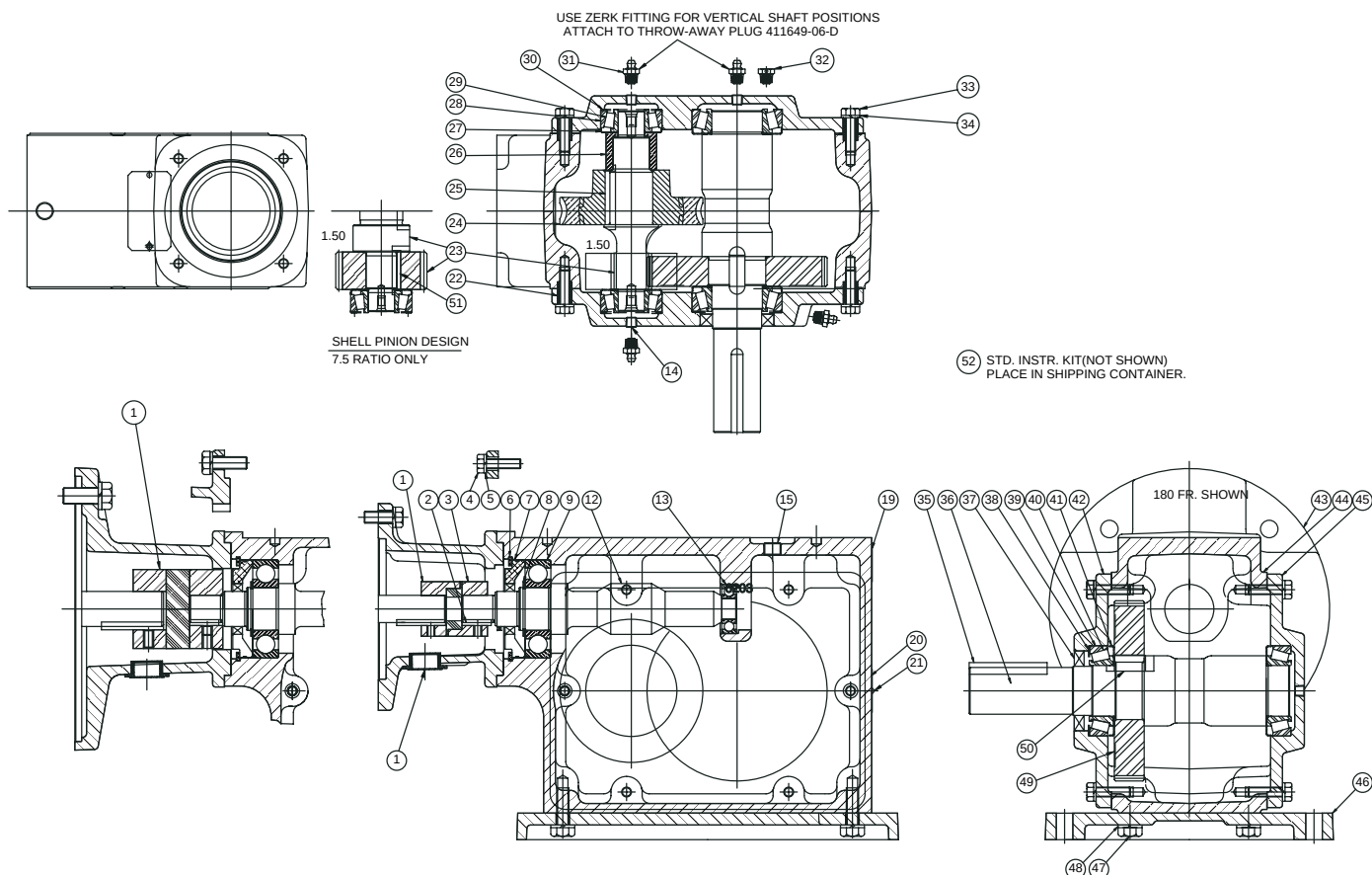
Coupling kit contains motor half, element and reducer coupling half. Kit will include both old and new reducer coupling halves and will service all generations of Combination TIGEAR.

Reducer Size	Motor Frame	Kit Part Number	Reducer Size	Motor Frame	Kit Part Number
C150	56C	41164250AW	C262	56C	41164250BB
	140TC	41164250AX		140TC	41164250BC
C200	56C	41164250AY		180TC	41164250BD
	140TC	41164250AZ	C350	56C	41164250BB
	180TC	41164250BA		140TC	41164250BC
				180TC	41164250BD
				210TC	41164250BE



RENEWAL PARTS

Combination TIGEAR SOLID SHAFT - SIZE C150-C350



Part Number Listing						
Item	Description	Qty	C150	C200	C262	C350
1	CPLNG HUB (56C MTR)	0 - 1	278900	278900	278900	278900
	CPLNG HUB (140TC MTR)	0 - 1	278901	278901	278901	278901
	CPLNG HUB (180TC)	0 - 1	-----	60222209W	278907	278907
	CPLNG HUB (210TC)	0 - 1	-----	-----	-----	60222209B
	CPLNG ELEMENT 56/140	0 - 1	278911	278911	278911	278911
	CPLNG ELEMENT 180TC	0 - 1	-----	60222220A	60222211A	60222211A
2	KEY, INPUT SHAFT	1	276138	276138	276140	276140
3	CPLNG HUB, REDUCER 56/140	0 - 1	278900	276143	278901	278901
	CPLNG HUB, REDUCER 180	0 - 1	-----	276145	275806	275806
	CPLNG HUB, REDUCER 210	0 - 1	-----	-----	-----	60222209C
4	HEX HEAD SCREW	4	53202	53202	51929 (4)	51929 (4)
5	LOCKWASHER	16	50253	50253	50253	304603
6	CIRCLIP	1	278702	278702	278716	278146
*7	OIL SEAL ASSM	1	41162024A	41162024B	41162024C	41162024D
8	CIRCLIP	1	278710	278712	278715	278718
*9	BEARING, SEALED (1)	1	7914703E	07914703G	07914703N	07914703AA
10	HEX HEAD SCREW (5)	12	60245207H	60245207H	60245207H	60245207K
12	WORM SHAFT	1	SEE GEAR CHART			
*13	BEARING	1	278883	07914702D	07914702K	07914702X
14	PIPE PLUG	1 - 3	41164738B	41164738B	41164738B	41164738B
15	PIPE PLUG	3 - 4	41164738A	41164738A	41164738A	41164738A
	SHIPPING PLUG (DRAINBACK)	0 - 1	41164906B	41164906B	41164906B	41164733E
16	PLASTIC RIVET	1	41171503A	41171503A	41171503A	41171503A

Combination TIGEAR

SOLID SHAFT - SIZE C150-C350

Part Number Listing						
Item	Description	Qty	C150	C200	C262	C350
19	WARNING PLATE	1	60241524C	60241524C	60241524C	60241524C
20	NAMEPLATE	1	60200503C	60200503C	60200503C	60200503C
21	DRIVE SCREW	2	41163603B	41163603B	41163603B	41163603B
22	DOWEL PIN SLEEVE	4	41171506A	41171506A	41171506A	41171506B
23	INT PINION SHAFT	1	SEE GEAR CHART			
24	WORM GEAR	1	SEE GEAR CHART			
25	KEY	1	41168812V	41168812K	055610	050999
26	SPACER	1	41162210AA	41162210AB	41162210AE	41162210AD
*27	GREASE RETAINER	2	41162401A	41162401D	41162401B	41162401W
*28/29	BEARING ASSEMBLY	2	41162601D	41162601E	41162601B	41162601AC
30	SHIM	1	41164246D	41164250Z	41164246F	41164250AB
31	ZERK FITTING	0 - 2	07901913AW	07901938AW	07901913AW	07901938AW
32	PLUG, THROW-AWAY	0 - 2	41164906D	41164906D	41164906D	41164906D
33	HEX HEAD SCREW (4)	12	60245207H	60245207H	60245207H	60245207K
34	LOCKWASHER (4)	12	050253	050253	050253	304603
35	KEY	1	055592	055025	055060	41168812D
36	OUTPUT SHAFT	1	60242112A	60242113A	60242114A	60242115A
*37	SEAL, OUTPUT"	1	41162701FR	41162701FX	41162701FS	41162701FT
38	SHIM	1	41164250AC	41164246B	41164246AB	41164246H
*39/40	BEARING ASSEMBLY	2	41162601C	41162601A	41162601R	41162601AB
41	GREASE RETAINER	2	41162401C	41162401E	41162401R	41162401X
42	BEARING HSG, OPEN (3)"	1	07920624A	07920618B	08692302A	08692308A
43	"C" FACE ADPT 56/140	0 - 1	278574	278574	278476	278476
	"C" FACE ADPT 180 (2)	0 - 1	-----	07906722AB	278478	278478
	"C" FACE ADPT 210 (5)	0 - 1	-----	-----	-----	07906722AD
44	GEARCASE	1	08693202B	08693204B	08693206B	08693208B
45	BEARING HSG, CLOSED	1	07920628A	07920622B	08692306A	08693312A
46	BOLT ON FOOT	0 - 1	07914022A	07914020A	07914024A	07914026A
47	HEX HEAD SCREW	0 - 4	60245207A	60245207J	60245207J	60245207L
48	LOCKWASHER	0 - 4	050253	050684	304603	050469
49	HELICAL GEAR	1	SEE GEAR CHART			
50	GEAR KEY	1	41168812E	055087	055154	41168812AE
51	KEY, SHELL PINION RATIO 6.2 & 7.5	0 - 1	-----	-----		

*RECOMMENDED SPARE PARTS FOR MINIMUM PROTECTION

(1) FOR A-5 MOUNTING ONLY USE SEALED BEARING 07914703F FOR C150, 07914703DD FOR C200, **07914703R** FOR C262, **07914703BV** FOR C350.

(2) BOLT ON PLATE ADAPTOR ON SIZE C200. MUST ALSO USE 56/140 ADAPTOR.

(3) SIZE C200 OUTPUT SHAFT UP USES 07920618C.

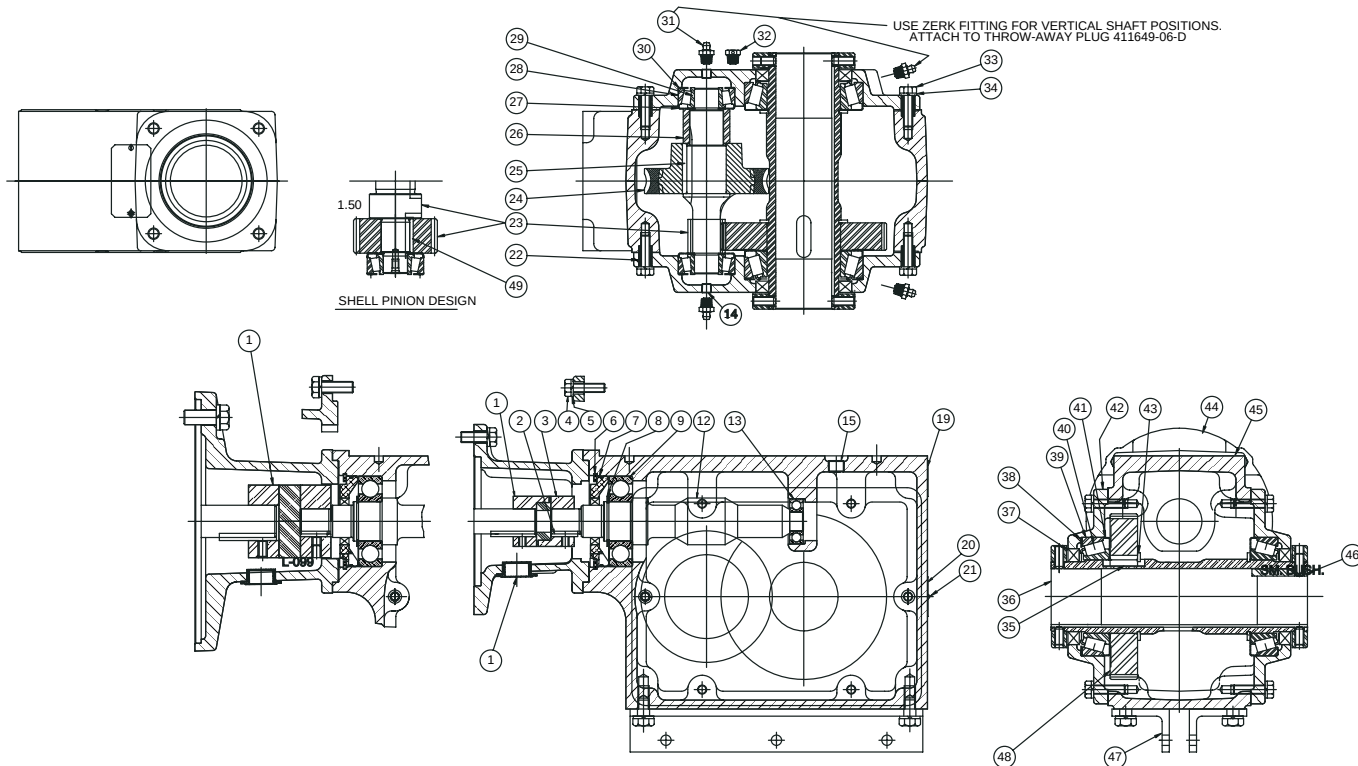
(4) SIZE C350 USES 16 EACH.

(5) ADD TO 180 C-ADPT FOR 210 MOTOR USE.

RENEWAL PARTS

Combination TIGEAR STRAIGHT BORE - SIZES C150TS - C350S

50 STD. INSTR. KIT(NOT SHOWN)
PLACE IN SHIPPING CONTAINER.



Part Number Listing						
Item	Description	Qty	C150	C200	C262	C350
1	CPLNG HUB (56C MTR)	0-1	278900	278900	278900	278900
	CPLNG HUB (140TC MTR)	0-1	278901	278901	278901	278901
	CPLNG HUB (180TC MOTOR	0-1	-----	60222209W	278907	278907
	CPLNG HUB (210TC)	0-1	-----	-----	-----	60222209B
	CPLNG ELEMENT 56/140	0-1	278911	278911	278911	278911
	CPLNG ELEMENT 180/210TC	0-1	-----	60222220A	60222211A	60222211A
2	KEY, INPUT SHAFT	1	276138	276138	276140	276140
3	CPLNG HUB, REDUCER W/ 56/140	0-1	278900	276143	278901	278901
	CPLNG HUB, REDUCER W/ 180TC	0-1	-----	276145	275806	275806
	CPLNG HUB, REDUCER W/210TC	0-1	-----	-----	-----	60222209C
4	HEX HEAD SCREW	4	53202	53202	51929	51929
5	LOCKWASHER	16	50253	50253	50253	304603
6	CIRCLIP	1	278702	278702	278716	278146
*7	OIL SEAL ASSM	1	41162024A	41162024B	41162024C	41162024D
8	CIRCLIP	1	278710	278712	278715	278718
*9	BEARING, SEALED (1)	1	7914703E	07914703G	07914703N	07914703AA
10	HEX HEAD SCREW (4)	12	60245207H	60245207H	60245207H	60245207K
12	WORM SHAFT	1	SEE GEAR CHART			
*13	BEARING	1	278883	07914702D	07914702K	07914702X
14	PIPE PLUG	1-3	41164738B	41164738B	41164738B	41164738B
15	PIPE PLUG	3-4	41164738A	41164738A	41164738A	41164738A
	SHIPPING PLUG (DRAINBACK)	0-1	41164906B	41164906B	41164906B	41164733E
16	PLASTIC RIVET	1	41171503A	41171503A	41171503A	41171503A

Combination TIGEAR

STRAIGHT BORE - SIZES C150TS - C350S

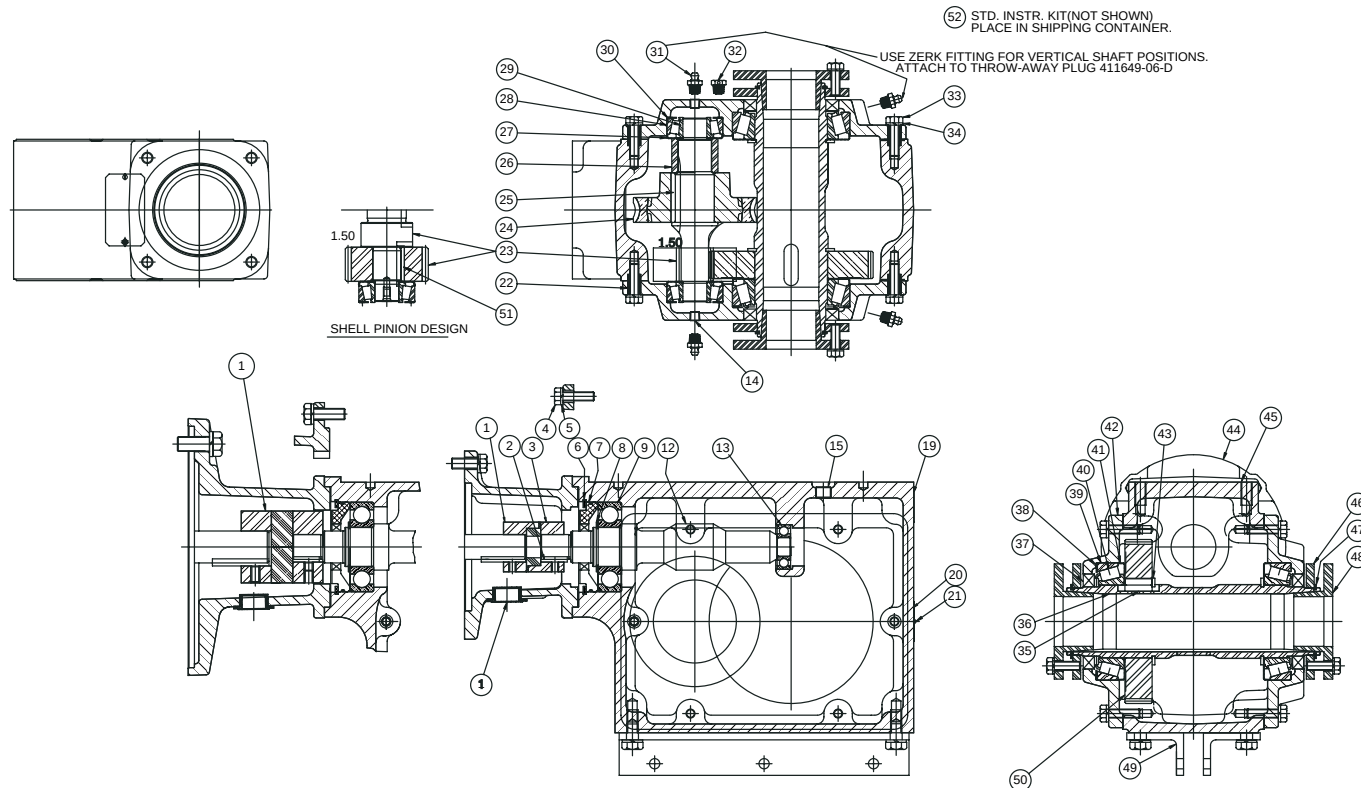
Part Number Listing						
Item	Description	Qty	C150	C200	C262	C350
17	COMPRESSION CHAMBER	1	07914206B	07914206A	07914206C	07914206D
	RETAINER BRACKET	0-1	-----	-----	60212836AM	60212836AC
18	PAINT MASK	1	41161402B	41161402B	41161402B	41161402B
19	WARNING PLATE	1	60241524C	60241524C	60241524C	60241524C
20	NAMEPLATE	1	60200503C	60200503C	60200503C	60200503C
21	NAMEPLATE PINS	2	41163603B	41163603B	41163603B	41163603B
22	DOWEL PIN	4	41171506A	41171506A	41171506A	41171506B
23	INT PINION SHAFT	1	SEE GEAR CHART			
24	WORM GEAR	1				
25	KEY	1	41168812V	41168812K	55610	50999
26	SPACER	1	41162210AA	41162210AB	41162210AE	41162210AD
27	GREASE RETAINER	2	41162401A	41162401D	41162401B	41162401W
*28/29	BEARING ASSEMBLY	2	41162601D	41162601	41162601B	41162601AC
30	SHIM	1	41164250Y	41164250Z	41164250AA	41164250AB
31	ZERK FITTING	0-2	07901913AW	07901938AW	07901938AW	07901938AW
32	PLUG, THROW-AWAY	0-2	41164906D	41164906D	41164906D	41164906D
33	KEY	1	41168812AA	41168812AB	41168812AC	41168812AD
34	OUTPUT SHAFT	1	07920702B	07920703B	07920704B	07920705B
*35	OUTPUT SEAL	2	41162701FS	41162701FT	41162701FV	41162701FW
36	SHIM	1	41164250AG	41164250AH	41164250AF	41164250AK
*37/38	BEARING ASSEMBLY	2	41162601GP	41162601BR	41162601GR	41162601GS
39	GREASE RETAINER	1-2	41162401AB	41162401M	41162401AC	41162401AD
	GREASE RETAINER (6.2 & 7.5 RATIO)	0-1	41162336A	41162401AG	41162336B	41162336C
40	BEARING HOUSING	2	07920626A	07920620B	08692304A	08693310A
	BRG HSG B1, B3 - H1, H3 MTG ONLY	0-1	-----	07920620C	-----	-----
41	RETAINING RING	2	41163708A	150182	41163702BH	41163708D
42	C-FACE ADAPTOR (56/140)	0-1	278574	278574	278476	278476
	C-FACE ADAPTOR (180)	0-1	-----	07906722AB	278478	278478
	ADAPTOR PLATE (210TC) (5)	0-1	-----	-----	-----	07906722AD
43	GEARCASE	1	08693202B	08693204B	08693206B	08693208B
44	BUSHING KIT	0-1	SEE GEAR CATALOG			
45	TORQUE ARM BRKT ASSM	0-1	60232807J	60232807C	60232807L	60232807R
	BRKT HARDWARE ASSM	0-1	60232807H	60232807S	60232807M	60232807P
46	HELICAL GEAR	1	SEE GEAR CHART			
47	KEY	1	55025	60232101L	242296	243250
48	SET SCREW (OVER KEY)	1	278935	278899	278937	278899
49	SET SCREW (OVER SHAFT)	3	278936	278899	278938	278936
50	COLLAR, OUTPUT HUB (NOT SHOWN)	2	41162235A	-----	41162235B	-----
50	OIL LEVEL PLUG (RED)	0-1	41163733D	41164733D	41164733D	41164733D
52	VENT PLUG	0-1	41164725C	41164725C	41164725C	41164725C

*RECOMMENDED SPARE PARTS FOR MINIMUM PROTECTION

- (1) FOR A-5 MOUNTING ONLY USE SEALED BEARING **07914703F** FOR C150, USE **07914703DD** FOR C200, USE **07914703R** FOR C262, USE **07914703BV** FOR C350.
- (2) USES QTY 12
- (3) USES QTY 4 LOCKWASHERS 50250.
- (4) SIZE C262 & C350 USE QTY 16.
- (5) TO CONVERT UNIT TO 210TC INPUT THE 180TC ADAPTOR MUST ALSO BE USED.

RENEWAL PARTS

Combination TIGEAR TWIN TAPER BUSHING - SIZES C150T - C350T



Part Number Listing						
Item	Description	Qty	C150	C200	C262	C350
1	CPLNG HUB (56C MTR)	0-1	278900	278900	278900	278900
	CPLNG HUB (140TC MTR)	0-1	278901	278901	278901	278901
	CPLNG HUB (180TC MOTOR)	0-1	-----	60222209W	278907	278907
	CPLNG HUB (210TC)	0-1	-----	-----	-----	60222209B
	CPLNG ELEMENT 56/140	0-1	278911	278911	278911	278911
	CPLNG ELEMENT 180/210TC	0-1	-----	60222220A	60222211A	60222211A
2	KEY, INPUT SHAFT	1	276138	276138	276140	276140
3	CPLNG HUB, REDUCER W/ 56/140	0-1	278900	276143	278901	278901
	CPLNG HUB, REDUCER W/ 180TC	0-1	-----	276145	275806	275806
	CPLNG HUB, REDUCER W/210TC	0-1	-----	-----	-----	60222209C
4	HEX HEAD SCREW	4	53202	53202	51929	51929
5	LOCKWASHER	16	50253	50253	50253	304603
6	CIRCLIP	1	278702	278702	278716	278146
*7	OIL SEAL ASSM	1	41162024A	41162024B	41162024C	41162024D
8	CIRCLIP	1	278710	278712	278715	278718
*9	BEARING, SEALED (1)	1	07914703E	07914703G	07914703N	07914703AA
10	HEX HEAD SCREW (4)	12	60245207H	60245207H	60245207H	60245207K
12	WORM SHAFT	1	SEE GEAR CHART			
*13	BEARING	1	278883	07914702D	07914702K	07914702X
14	PIPE PLUG	1-3	41164738B	41164738B	41164738B	41164738B
15	PIPE PLUG	3-4	41164738A	41164738A	41164738A	41164738A
	SHIPPING PLUG (DRAINBACK)	0-1	41164906B	41164906B	41164906B	41164733E
16	PLASTIC RIVET	1	41171503A	41171503A	41171503A	41171503A

Combination TIGEAR

TWIN TAPER BUSHING - SIZES C150T - C350T

Part Number Listing						
Item	Description	Qty	C150	C200	C262	C350
17	COMPRESSION CHAMBER	1	07914206B	07914206A	07914206C	07914206D
	RETAINER BRACKET	0-1	-----	-----	60212836AM	60212836AC
18	PAINT MASK	1	41161402B	41161402B	41161402B	41161402B
19	WARNING PLATE	1	60241524C	60241524C	60241524C	60241524C
20	NAMEPLATE	1	60200503C	60200503C	60200503C	60200503C
21	NAMEPLATE PINS	2	41163603B	41163603B	41163603B	41163603B
22	DOWEL PIN	4	41171506A	41171506A	41171506A	41171506B
23	INT PINION SHAFT	1	SEE GEAR CHART			
24	WORM GEAR	1				
25	KEY	1	41168812V	41168812K	55610	50999
26	SPACER	1	41162210AA	41162210AB	41162210AE	41162210AD
27	GREASE RETAINER	2	41162401A	41162401D	41162401B	41162401W
*28/29	BEARING ASSEMBLY	2	41162601D	41162601E	41162601B	41162601AC
30	SHIM	1	41164250Y	41164250Z	41164250AA	41164250AB
31	ZERK FITTING	0-2	07901913AW	07901938AW	07901938AW	07901938AW
32	PLUG, THROW-AWAY	0-2	41164906D	41164906D	41164906D	41164906D
33	KEY	1	41168812AA	41168812AB	41168812AC	41168812AD
34	OUTPUT SHAFT	1	07920702C	07920703B	07920704B	07920705B
*35	OUTPUT SEAL	2	41162701FS	41162701FT	41162701FV	41162701FW
36	SHIM	1	41164250AG	41164250AH	41164250AF	41164250AK
*37/38	BEARING ASSEMBLY	2	41162601GP	41162601BR	41162601GR	41162601GS
39	GREASE RETAINER	1-2	41162401AB	41162401M	41162401AC	41162401AD
	GREASE RETAINER (6.2 & 7.5 RATIO)	0-1	41162336A	41162401AG	41162336B	41162336C
40	BEARING HOUSING	2	07920626A	07920620B	08692304A	08693310A
	BRG HSG B1, B3 - H1, H3 MTG ONLY	0-1	-----	07920620C	-----	-----
41	RETAINING RING	2	41163708A	150182	41163702BH	41163708D
42	C-FACE ADAPTOR (56/140)	0-1	278574	278574	278476	278476
	C-FACE ADAPTOR (180)	0-1	-----	07906722AB	278478	248478
42	ADAPTOR PLATE (210TC) (5)	0-1	-----	-----	-----	07906722AD
43	GEARCASE	1	08693202B	08693204B	08693206B	08693208B
44	BACKING PLATE	2	41162518A	-----	-----	-----
45	SPIRAL LOCKRING	2	41163706F	-----	-----	-----
46	TWIN TAPER BUSHING KIT	1	SEE GEAR CATALOG			
47	TORQUE ARM BRKT ASSM	0-1	60232807J	60232807C	60232807L	60232807R
	BRKT HARDWARE ASSM	0-1	60232807H	60232807S	60232807M	60232807P
48	HELICAL GEAR	1	SEE GEAR CHART			
49	OIL LEVEL PLUG (RED)	0-1	41163733D	41164733D	41164733D	41164733D
51	VENT PLUG	0-1	41164725C	41164725C	41164725C	41164725C

*RECOMMENDED SPARE PARTS FOR MINIMUM PROTECTION

- (1) FOR A-5 MOUNTING ONLY USE SEALED BEARING **07914703F** FOR C150, USE **07914703DD** FOR C200, USE **07914703R** FOR C262, USE **07914703BV** FOR C350.
- (2) SIZE C350 USE QTY 16
- (3) TO CONVERT UNIT TO 210TC INPUT THE 180TC ADAPTOR MUST ALSO BE USED

RENEWAL PARTS

Combination TIGEAR SOLID AND HOLLOW SHAFT OUTPUT

SIZE C150

Total Ratio	1st Stage		2nd Stage		
	Worm Shaft	Worm Gear	Pinion	Solid Shaft Output Gear	Hollow Shaft Output Gear
7.5	276068	60241102	07915819B	07915613B	07915613K
9.4	276068	60241102	07915819C	07915613C	07915613L
10	276068	60241102	07915819D	07915613D	07915613M
15	276068	60241102	07915819E	07915613E	07915613N
18	276068	60241102	07915819F	07915613F	07915613P
20	276068	60241102	07915819G	07915613G	07915613R
25	276068	60241102	07915819H	07915613H	07915613S
30	276069	60240821	07915819G	07915613G	07915613R
33.3	276070	60241163	07915819F	07915613F	07915613P
38	276069	60240821	07915819H	07915613H	07915613S
40	276070	60241163	07915819G	07915613G	07915613R
50	276070	60241163	07915819H	07915613H	07915613S
60	276072	60240828	07915819G	07915613G	07915613R
75	276072	60240828	07915819H	07915613H	07915613S
80	276074	60241164	07915819G	07915613G	07915613R
90	276073	60241171	07915819H	07915613H	07915613S
100	276074	60241164	07915819H	07915613H	07915613S
125	276076	60241165	07915819G	07915613G	07915613R
150	276076	60241165	07915819H	07915613H	07915613S
160	276077	60241166	07915819G	07915613G	07915613R
200	276077	60241166	07915819H	07915613H	07915613S
240	276079	60241168	07915819G	07915613G	07915613R
300	276079	60241168	07915819H	07915613H	07915613S

SIZE C200

Total Ratio	1st Stage		2nd Stage		
	Worm Shaft	Worm Gear	Pinion	Solid Shaft Output Gear	Hollow Shaft Output Gear
9.42	276090	60241202	07915820C	07915614C	07915614L
10	276090	60241202	07915820D	07915614D	07915614M
15	276090	60241202	07915820E	07915614E	07915614N
16.96	276091	60241204	07915820D	07915614D	07915614M
18	276090	60241202	07915820F	07915614F	07915614P
18.85	276092	60241205	07915820C	07915614C	07915614L
20	276090	60241202	07915820G	07915614G	07915614R
25	276090	60241202	07915820H	07915614H	07915614S
30	276091	60241204	07915820G	07915614G	07915614R
38	276091	60241204	07915820H	07915614H	07915614S
40	276092	60241205	07915820G	07915614G	07915614R
50	276092	60241205	07915820H	07915614H	07915614S
60	276094	60241207	07915820H	07915614H	07915614S
75	276094	60241207	07915820H	07915614H	07915614S
80	276096	60241209	07915820G	07915614G	07915614R
90	276095	60241208	07915820H	07915614H	07915614S
100	276096	60241209	07915820H	07915614H	07915614S
125	276097	60241210	07915820H	07915614H	07915614S
150	276098	60241211	07915820H	07915614H	07915614S
160	276099	60241213	07915820G	07915614G	07915614R
200	276099	60241213	07915820H	07915614H	07915614S
240	276101	60241215	07915820G	07915614G	07915614R
300	276101	60241215	07915820H	07915614H	07915614S

SIZE C262

Total Ratio	1st Stage		2nd Stage		
	Worm Shaft	Worm Gear	Pinion	Solid Shaft Output Gear	Hollow Shaft Output Gear
7.5 (1)	276102	60241302	07U915821B	07915615B	07915615K
9.4	276102	60241302	07915821M	07915615C	07915615L
10	276102	60241302	07915821N	07915615D	07915615M
14.1	276103	60241304	07915821M	07915615C	07915615L
15	276102	60241302	07915821P	07915615E	07915615N
17.04	276103	60241304	07915821N	07915615D	07915615M
18	276102	60241302	07915821R	07915615F	07915615P
20	276102	60241302	07915821S	07915615G	07915615R
22.73	276104	60241305	07915821N	07915615D	07915615M
25	276102	60241302	07915821T	07915615H	07915615S
27.92	276104	60241305	07915821P	07915615E	07915615N
30	276103	60241304	07915821S	07915615G	07915615R
33.3	276104	60241305	07915821R	07915615F	07915615P
38	276103	60241304	07915821T	07915615H	07915615S
40	276104	60241305	07915821S	07915615G	07915615R
42.23	276106	60241307	07915821P	-----	07915615N
50	276104	60241305	07915821T	07915615H	07915615S
60	276106	60241307	07915821S	07915615G	07915615R
75	276106	60241307	07915821T	07915615H	07915615S
80	276109	60203712	07915821R	07915615F	07915615N
90	276111	60241313	07915821N	07915615D	07915615M
100	276110	60241311	07915821R	07915615F	07915615P
125	276110	60241311	07915821S	07915615G	079U15615R
150	376110	60241311	07915821T	07915615H	07915615S
160	276111	60241313	07915821S	"	07915615R
200	276111	60241313	07915821T	07915615H	07915615S
240	276113	60241315	07915821S	07915615G	07915615R
300	276113	60241315	07915821T	07915615H	07915615S

SIZE C350

Total Ratio	1st Stage		2nd Stage		
	Worm Shaft	Worm Gear	Pinion	Solid Shaft Output Gear	Hollow Shaft Output Gear
6.2 (1)	276114	60207767	07915822A	07915616A	07915616J
7.5 (1)	276114	60207767	07915822B	07915616B	07915616K
9.4	276114	60207767	07915822C	07915616C	07915616L
10	276114	60207767	07915822D	07915616D	07915616M
15	276114	60207767	07915822E	07915616E	07915616N
18	276114	60207767	07915822F	07915616F	07915616P
20	276114	60207767	07915822G	07915616G	07915616R
22.61	276116	60242403	07915822D	07915616D	07915616M
25	276114	60207767	07915822H	07915616H	07915616S
30	276115	60207763	07915822G	07915616G	07915616R
33.3	276116	60242403	07915822F	07915616F	07915616P
38	276115	60207763	07915822H	07915616H	07915616S
40	276115	60242403	07915822G	07915616G	07915616R
47.12	276121	275593	07915822C	07915616C	07915616L
50	276116	60242403	07915822H	07915616H	07915616S
60	276118	60242404	07915822G	07915616G	07915616R
64.19	276117	60207708	07915822H	07915616H	07915616S
75	276118	60242404	07915822H	07915616H	07915616S
80	276120	60242405	07915822G	07915616G	07915616R
86	276121	275593	07915822F	07915616F	07915616P
100	276120	60242405	07915822H	07915616H	07915616S
125	276121	275593	07915822H	07915616H	07915616S
150	276122	275594	07915822G	07915616G	07915616R
160	276123	60242407	07915822G	07915616G	07915616R
200	276123	60242407	07915822H	07915616H	07915616S
240	276125	275595	07915822G	07915616G	07915616R
300	276125	275595	07915822H	07915616H	07915616S

(1) SHELL PINION RATIO. ALSO ORDER PINION SHAFT 07915821U AND KEY 50994.

(1) SHELL PINION RATIO. ALSO ORDER PINION SHAFT 07915821J AND KEY 55089.

Combination TIGEAR

INSTALLATION

Combination TIGEAR reducers can be installed by either using the drilled and tapped holes in the bottom of the gearcase or by attaching a bolt-on foot kit. The mounting surface must be flat or breakage may result when mounting bolts are tightened. Use steel shims as required to assure that the gearbox is sitting solidly on all four bolting points and is properly aligned.

On hollow shaft units the ideal position of the tie rod arm is at right angles to a line between the point of attachment of the torque arm to the reducer and the centerline of the output shaft. This angle may vary up to 30- in either direction. CAUTION: Exceeding the 30- variance of the tie rod could result in excessive reaction load and equipment damage. It is good practice to position the rod assembly such that it will be loaded in tension during operation of the reducer. Viewing the output shaft from the K-1 mounting position, a clockwise rotation of the input shaft will cause a clockwise rotation of the reducer about the output shaft. Proper positioning of the tie rod assembly will prevent the components from being loaded in compression.

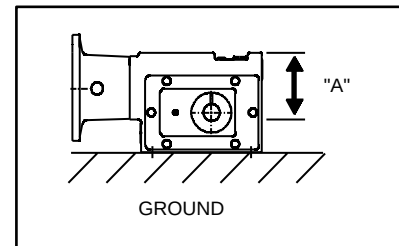
LUBRICATION

The DODGE Combination TIGEAR reducer incorporates the unique RELIALUBE system which eliminates the lengthy preparation normally required to put a reducer into service. TIGEAR Combination reducers are factory filled with Mobil SHC634 for S-1, K-1, and L-1 mounting positions. Any approved mounting position may be specified upon order entry and additional lube, if required, will be added at no additional charge. S2, S4, K2, K4, L2 and L4 mounting positions also require the addition of grease fittings for upper bearing lubrication and will be included at no additional charge if ordered through factory. **Note:** Failure to follow these instructions will void warranty.

The chart below provides two methods for verifying the reducer has the correct amount of oil. The oil can be measured by volume or by checking dimension "A". Dimension "A" is measured with a dipstick inserted into the tapped fill hole from the machined top of the gearcase to the oil level with the gearbox set level on the ground.

Hollow (Tapered Or Straight Bore) Output Shaft								
Size	Assm.							
	S1 H4 B2	Dist. "A" Inches	S2 H1 B3	"A"	S4 H3 B1	A	S5 H5 B5	"A"
C150	21 oz.	3-1/4"	27 oz.	2-1/4"	27 oz.	2-1/4"	43 oz.	1-1/2"
C200	32 oz.	4-1/4"	44 oz.	3-1/4"	44 oz.	3-1/4"	60 oz.	2-1/8"
C262	52 oz.	6-1/8"	112 oz.	2-3/4"	112 oz.	2-3/4"	112 oz.	2-3/4"
C350	136 oz.	7-1/2"	235 oz.	4"	235 oz.	4"	256 oz.	3-3/8"

Solid Output Shaft								
Size	Assm.							
	L1 K1 B2 H4	Dist. "A" Inches	L4 K2 B1 H1	"A"	K4 L2 B3 H3	"A"	L5 K5 B5 H5	"A"
C150	21 oz.	3-1/4"	32 oz.	1-3/4"	44 oz.	3/4"-1/2"	44 oz.	3/4"
C200	32 oz.	4-1/4"	44 oz.	3"	68 oz.	1-3/4"	68 oz.	1-1/2"
C262	52 oz.	6-1/8"	96 oz.	3-3/8"	128 oz.	1-1/2"	128 oz.	1-3/4"
C350	136 oz.	7-1/2"	235 oz.	4-1/2"	312 oz.		256 oz.	4"



Combination TIGEAR LUBRICATION OPTIONS

FOOD GRADE LUBRICANT

Chevron FM460X lubricant serves the needs of food processing applications which need a non-contaminating gear oil. Chevron FM460X carries USDA Class AA and H1 approvals. Use of this lubricant can reduce the potential damage to food caused by oil seeping through worn-out shaft seals.

LOW TEMPERATURE LUBRICANT

The standard lubricant provided with TIGEAR reducers covers an operating ambient temperature range from -10°F to +100°F. For ambient operating conditions above +100° F contact DODGE Application Engineering. To apply TIGEAR reducers in applications from -10°F to -30°F, specify Mobil SHC-629 lubricant.

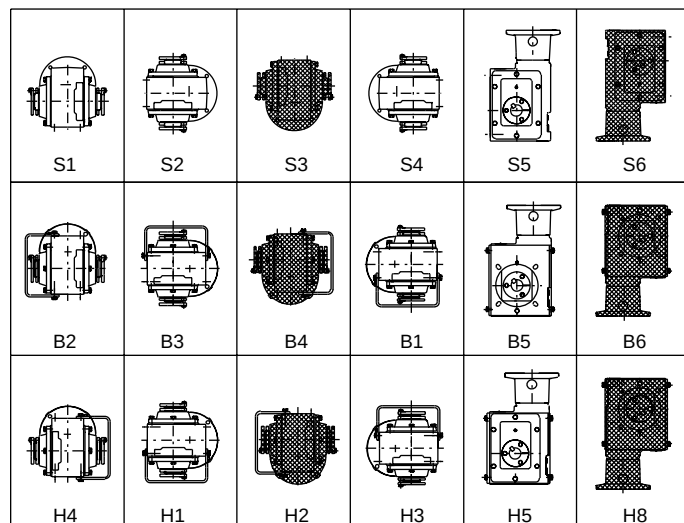


Low Temperature	
Volume	Part Number (SHC-629)
1 qt.	41170966AG
1 gal.	41170966AH

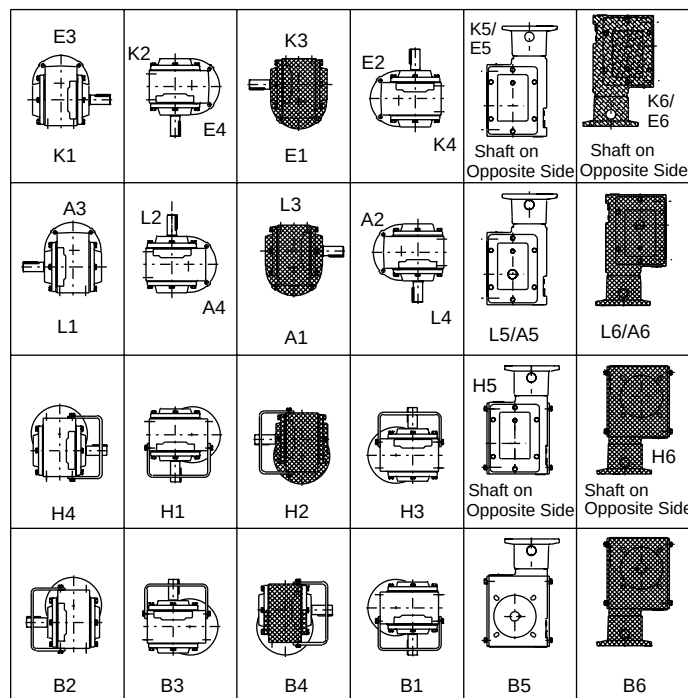
Standard	
Volume	Part Number (SHC-634)
12 oz.	41170966AB
1 qt.	41170966AE
1 gal.	41170966AF

Combination TIGEAR

MOUNTING POSITIONS - HOLLOW OUTPUT SHAFT



Mounting Positions - Solid Output Shaft



For applications requiring the addition of lubricant, Mobil SHC 634 is available. See G5-54.

MAINTENANCE

The Combination TIGEAR reducer requires no periodic maintenance. However, DODGE recommends occasional visual inspections to check for hardware security, leakage, and general overall condition. In extremely dirty environments, heavy accumulation of dirt can cause overheating. An occasional wash down or wipe-off will assure the long life of the equipment.

APPLICATION

The Combination TIGEAR reducer is designed to operate within the following temperature limits:

Ambient -10° to 165°F
Oil Sump -10° to 200°F

When ambient temperatures exceed 100°F, care should be taken not to exceed a 200°F sump temperature during unit operation. These conditions could require the application of a larger reducer. Units which operate in ambient temperatures below -10°F may be accommodated on factory orders by lower viscosity Mobil SHC 600 series products.

The continuous rated input horsepower shown on the reducer nameplate is for a service factor of 1.0 at an input speed of 1750 rpm. Before placing the reducer into service, check the nameplate to confirm that its horsepower rating is consistent with the motor horsepower and desired service factor.

On hollow shaft units, consideration should be given to the design of the driven shaft on which the reducer is mounted. Shafting material and size should be capable of carrying loads from the reducer weight, transmitted torque, and tie rod reaction force.

Combination TIGEAR

EXACT RATIOS SOLID SHAFT REDUCERS

Nominal Ratio	Gearcase Size			
	C150	C200	C262	C350
6.1	-	-	-	6.030
7.5	7.335	-	7.414	7.500
9.4	9.231	9.423	9.400	9.423
10	11.087	11.304	11.304	11.304
15	13.958	13.958	13.958	13.958
18	16.667	16.667	16.667	16.667
20	20.278	20.278	20.278	20.278
25	25.333	25.333	25.333	25.333
30	30.417	30.417	30.417	30.417
38	38.000	38.000	38.000	38.000
40	40.556	40.556	40.556	40.556
50	50.667	50.667	50.667	50.667
60	60.833	60.833	60.833	60.833
75	76.000	76.000	76.000	76.000
80	81.111	81.111	81.111	81.111
86	-	-	-	83.333
90	91.200	91.200	91.200	-
100	101.333	101.333	101.333	101.333
125	121.667	126.667	126.667	126.667
150	152.000	152.000	152.000	152.000
160	162.222	162.222	162.222	162.222
200	202.667	202.667	202.667	202.667
240	243.333	243.333	243.333	243.333
300	304.000	304.000	304.000	304.000

EXACT RATIO HOLLOW SHAFT REDUCERS

Nominal Ratio	Gearcase Size			
	C150	C200	C262	C350
6.1	-	-	-	6.030
7.5	7.335	-	7.414	7.500
9.4	9.231	9.423	9.400	9.423
10	11.087	11.304	11.364	11.304
15	13.958	13.958	13.958	13.958
18	16.667	16.667	16.667	16.667
20	20.278	20.278	20.278	20.278
25	25.333	25.333	25.333	25.333
30	30.417	30.417	30.417	30.417
38	38.000	38.000	38.000	38.000
40	40.556	40.556	40.556	40.556
50	50.667	50.667	50.667	50.667
60	60.833	60.833	60.833	60.833
75	76.000	76.000	76.000	76.000
80	81.111	81.111	83.751	81.111
86	-	-	-	83.333
90	91.200	91.200	90.908	-
100	101.333	101.333	99.999	101.333
125	121.667	126.667	121.667	126.667
150	152.000	152.000	152.000	152.000
160	162.222	162.222	162.222	162.222
200	202.667	202.667	202.667	202.667
240	243.333	243.333	243.333	243.333
300	304.000	304.000	304.000	304.000

Combination TIGEAR

ROTATIONAL INERTIA SUMMARY

All values are lb-in² referred to input shaft

Solid Output Units

Nominal Ratio	C150	C200		C262		C350	
	56/140 Fr.	56/140 Fr.	180 Fr.	56/140 Fr.	180 Fr.	56/140 Fr.	180 Fr.
10	0.605	0.953	1.460	2.510	4.170	10.190	11.850
15	0.599	0.938	1.440	2.460	4.120	10.040	11.700
18	0.598	0.928	1.430	2.440	4.100	9.960	11.620
20	0.591	0.920	1.420	2.410	4.070	9.880	11.540
25	0.588	0.912	1.410	2.390	4.050	9.810	11.470
30	0.529	0.761	1.260	1.960	3.620	7.170	8.830
38	0.528	0.757	1.260	1.950	3.610	7.140	8.800
40	0.520	0.740	1.240	1.870	3.530	6.630	8.290
50	0.520	0.739	1.240	1.870	3.530	6.610	8.270
60	0.512	0.718	1.220	1.770	3.430	5.300	6.960
75	0.512	0.718	1.220	1.770	3.430	5.370	7.030
80	0.512	0.720	1.220	1.610	3.270	5.270	6.930
90	0.501	0.795	1.300	1.610	3.270	5.360	7.020
100	0.511	0.719	1.220	1.600	3.260	5.270	6.930
125	0.518	0.705	1.210	1.600	3.260	5.040	6.700
150	0.518	0.744	1.250	1.680	3.340	4.910	6.570
160	0.509	0.713	1.220	1.740	3.400	5.130	6.790
200	0.509	0.713	1.220	1.740	3.400	5.130	6.790
240	0.505	0.694	1.200	1.670	3.330	4.850	6.510
300	0.505	0.694	1.200	1.670	3.330	4.850	6.510

Hollow Output Units

Nominal Ratio	C150	C200		C262		C350	
	56/140 Fr.	56/140 Fr.	180 Fr.	56/140 Fr.	180 Fr.	56/140 Fr.	180 Fr.
10	0.611	0.984	1.490	2.540	4.200	10.220	11.880
15	0.602	0.958	1.460	2.480	4.140	10.060	11.720
18	0.600	0.942	1.440	2.450	4.110	9.970	11.630
20	0.593	0.929	1.430	2.420	4.080	9.890	11.550
25	0.590	0.918	1.420	2.400	4.060	9.820	11.480
30	0.530	0.765	1.270	1.960	3.620	7.180	8.840
38	0.528	0.760	1.260	1.950	3.610	7.140	8.800
40	0.521	0.743	1.240	1.870	3.530	6.630	8.290
50	0.520	0.740	1.240	1.870	3.530	6.610	8.270
60	0.512	0.720	1.220	1.770	3.430	5.300	6.960
75	0.512	0.718	1.220	1.770	3.430	5.370	7.030
80	0.512	0.720	1.220	1.610	3.270	5.270	6.930
90	0.501	0.795	1.300	1.610	3.270	5.360	7.020
100	0.511	0.720	1.220	1.600	3.260	5.270	6.930
125	0.518	0.706	1.210	1.600	3.260	5.040	6.700
150	0.518	0.744	1.250	1.680	3.340	4.910	6.570
160	0.509	0.713	1.220	1.740	3.400	5.130	6.790
200	0.509	0.713	1.220	1.740	3.400	5.130	6.790
240	0.505	0.694	1.200	1.670	3.330	4.850	6.510
300	0.505	0.694	1.200	1.670	3.330	4.850	6.510

NOTES

Introduction

DODGE APG

Master XL

DODGE Combination TIGEAR

REEVES MOTODRIVE

REEVES ULTIMA

MOTODRIVE®

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MOTODRIVE



RIGHT ANGLE



PARALLEL



REEVES MOTODRIVE

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

REEVES E-Z KLEEN® MOTODRIVE

REEVES E-Z KLEEN MOTODRIVE units withstand corrosive chemicals, severe environments, and frequent washdowns. All external parts are cast iron and coated with USDA approved white epoxy paint. E-Z KLEEN MOTODRIVE 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 MOTODRIVE unit output speed from a remote location. A drivemounted shifting motor is controlled by a push button station (supplied).

For closed loop electronic speed control, select the REEVES Automatic Control (RAC), an extremely versatile device that combines precise electronic speed control with reliable mechanical simplicity. The MOTODRIVE unit output speed is varied in response to either a local speed control pot or a remote process control signal. Also available as a retrofit. For hazardous locations, the REEVES AIRTROL® control is a pneumatic speed control device that follows a 3-15 psi signal.

MOTODRIVE

- 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 MOTODRIVE 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. And ductile iron has a higher surface hardness than steel, which means more resistance to grooving of the disc face.

SCREW SHIFTER

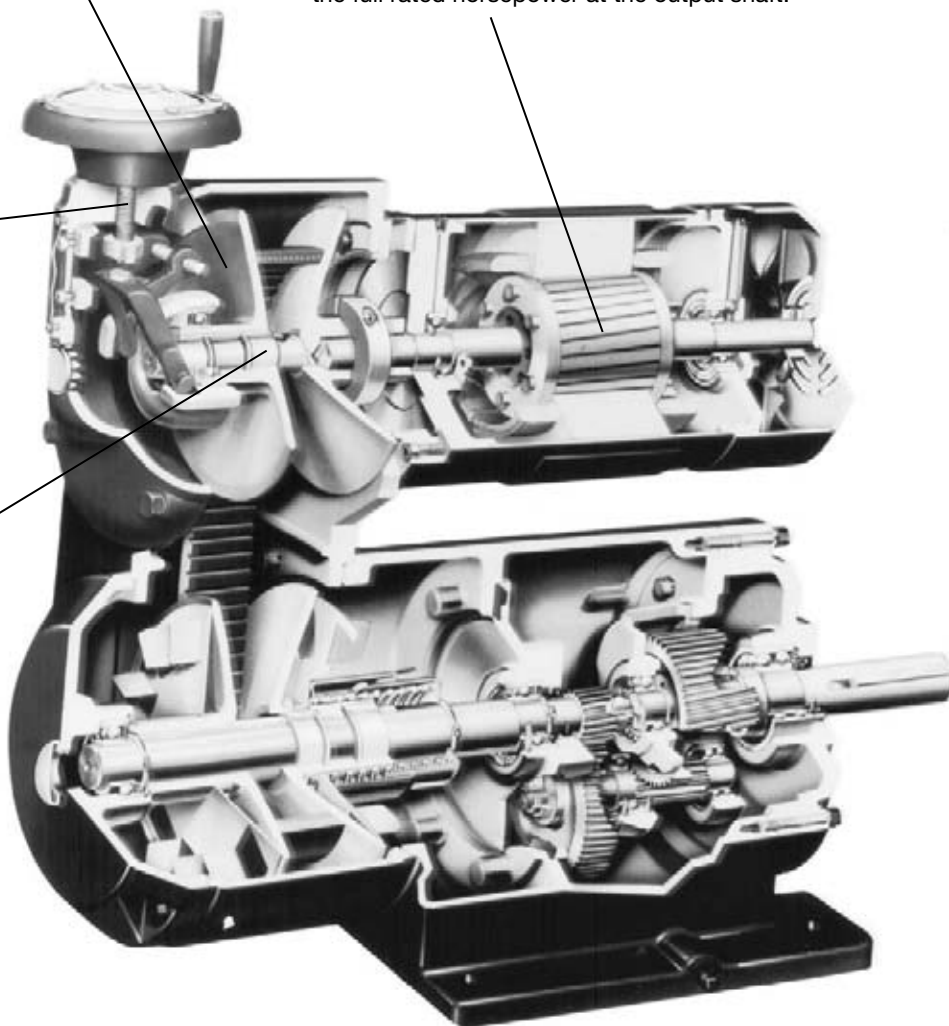
The improved MOTODRIVE unit, in sizes 100 and 200, features a screw type shifter with a round handwheel for more positive control.

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 nylatron key. The result is improved shock handling capacity and less wear.

NEMA C-FACE MOTOR

The improved REEVES MOTODRIVE 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. Note, however, that if you use a motor other than REEVES, you may not get the full horsepower rating of the drive. That's because REEVES C-face motors have been service factored, in some cases, to make sure you get the full rated horsepower at the output shaft.



MOTODRIVE

REEVES MOTODRIVE 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 MOTODRIVE units are available in many mounting configurations including:

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

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

Standard REEVES MOTODRIVE 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), RAC (Reeves Automatic Control), and AIRTROL (Pneumatic Remote Control) are available options. Programmable electronic digital tachometers are also available.

HOW TO ORDER

When ordering a REEVES MOTODRIVE 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)	E-Z KLEEN Package

NOTE: All stocked MOTODRIVE units have a part number that is listed in the selection tables. If one of these units are selected, reference the part number when ordering. Also include the assembly number selected and any options.

NOMENCLATURE

Parallel Units

Belt Case Size _____ 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 _____ XX
 Reducer Type _____
 W = MASTER XL Single
 Worm
 C = MASTER XL Combina-
 tion
 Reducer Size _____

EXAMPLES

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

MOTODRIVE - PARALLEL

0.25 Horsepower
10:1 Speed Range

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

* Made to Order

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

* Made to Order

MOTODRIVE - Parallel

0.50 Horsepower
10:1 Speed Range

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

* Made to Order

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

* Made to Order

MOTODRIVE - PARALLEL

0.75 Horsepower
10:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
4660	900	466	M10C1246	100	0		10	53	53	7000003
3983	900	466	*	100	0		12	53	53	7000003
3236	625	324	*	111	1.4	III	15	76	76	7000010
2648	511	265	M10C1255	111	1.8	III	18	92	92	7000027
2157	417	216	*	111	2.2	III	22	113	113	7000034
1942	375	194	M10C1247	111	2.4	III	24	126	126	7000034
1713	331	171	M10C1201	111	2.7	III	28	143	143	7000041
1465	283	147	*	111	3.2	III	32	167	167	7000058
1186	229	119	M10C1215	111	3.9	II	40	206	206	7000065
1045	202	104	*	111	4.5	II	45	234	234	7000072
884	190	88.4	M10C1244	111	5.2	II	53	249	249	7000089
764	180	76.4	M10C1256	111	6.1	II	62	262	262	7000089
676	174	67.6	*	111	6.9	II	70	271	271	7000096
559	108	55.9	M10C1248	112	8.4	III	85	438	438	7000102
485	93.8	48.5	*	112	9.7	III	97	504	504	7000119
428	82.6	42.8	M10C1249	112	11.0	II	110	572	572	7000119
366	70.8	36.6	*	112	12.7	II	129	668	668	7000126
323	65.8	32.3	M10C1207	112	14.4	II	146	718	718	7000133
261	67.2	26.1	*	112	17.8	II	181	703	703	7000140
221	61.6	22.1	M10C1209	112	21.2	I	214	767	767	7000140
197	59.2	19.7	M10C1212	112	23.4	I	240	799	799	7000157
167	59.0	16.7	M10C1213	112	27.8	I	284	801	801	7000164
151	61.7	15.1	M10C1210	112	30.7	I	312	766	766	7000164
128	60.4	12.8	*	112	36.3	III	370	783	783	7000171
106	60.2	10.6	M10C1214	113	44.0	III	446	785	785	7000188
80.8	15.6	8.0	*	123	57.7	III	585	3030	3030	7000195
65.7	15.5	6.5	*	123	70.6	III	719	3047	3047	7000201
53.9	15.6	5.3	*	123	86.5	III	876	3025	3025	7000218
43.1	16.7	4.3	*	123	106	II	1095	2836	2836	7000225
35.6	17.1	3.5	M10C1257	123	130	II	1329	2752	2752	7000232
28.9	8.0	2.8	*	133	159	III	1633	5854	5854	7000249
24.1	9.5	2.4	*	133	195	II	1958	4931	4931	-

* Made to Order

5:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
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	-

* Made to Order

Note: When substituting an ULTIMA drive for a MOTODRIVE unit, there may be a slight difference in output horsepower and speed range. There will be dimensional differences.

MOTODRIVE - Parallel

1.0 Horsepower
9:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
4200	1150	466	M10C1539	100	0		15	55	55	7000508
2917	799	324	*	111	1.4	III	22	79	79	7000515
2386	653	265	M10C1546	111	1.8	III	26	96	96	7000522
1944	532	216	*	111	2.2	III	32	118	118	7000539
1750	479	194	M10C1540	111	2.4	III	36	132	132	7000546
1544	423	171	*	111	2.7	III	41	149	149	7000546
1321	362	147	*	111	3.2	III	48	174	174	7000553
1069	293	119	M10C1541	111	3.9	II	59	215	215	7000560
942	280	104	*	111	4.5	II	67	225	225	7000577
797	294	88.4	M10C1501	111	5.2	II	79	214	214	7000584
689	279	76.4	M10C1547	111	6.1	II	92	226	226	7000591
610	276	67.6	*	111	6.9	II	103	229	229	7000591
504	138	55.9	*	112	8.4	III	125	457	457	7000607
438	120	48.5	M10C1513	112	9.7	III	144	526	526	7000614
330	98	36.6	M10C1503	112	12.7	II	191	641	641	7000621
291	100	32.3	M10C1548	112	14.4	II	217	627	627	7000638
235	101	26.1	M10C1504	112	17.8	II	268	625	625	7000645
199	100	22.1	M10C1515	112	21.2	I	317	633	633	7000652
178	101	19.7	M10C1542	112	23.4	I	355	621	621	7000652
151	100	16.7	*	112	27.8	I	419	628	628	7000669
136	97.3	15.1	M10C1516	112	30.7	I	462	647	647	7000676
110	30.2	12.2	M10C1250	123	38.4	III	572	2090	2090	7000683
88.6	24.3	9.8	*	123	47.1	III	711	2598	2598	7000690
72.8	20.8	8.0	M10C1507	123	57.7	III	866	3030	3030	7000706
59.2	21.2	6.5	*	123	70.6	II	1064	2979	2979	7000713
48.6	20.8	5.3	*	123	86.5	II	1297	3025	3025	7000720
38.9	22.7	4.3	*	123	106	II	1621	2778	2778	7000737
32.3	11.2	3.5	M10C1549	133	130	III	1951	5651	5651	7000744
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	-

* Made to Order

(1) 1200 RPM Motor

5:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
3220	875	644	M10E1300	100	0		20	72	72	7000751
2630	875	526	*	100	0		24	72	72	7000768
2150	608	430	*	111	1.4	III	29	104	104	7000775
1750	497	350	M10E1301	111	1.8	III	36	127	127	7000782
1430	405	286	*	111	2.2	III	44	156	156	7000799
1170	322	234	*	111	2.7	III	54	196	196	7000805
950	298	190	*	111	3.2	II	66	212	212	7000812
780	280	156	M10E1302	111	3.9	II	81	225	225	7000829
640	285	128	*	111	5.2	II	98	221	221	7000836
520	279	104	M10E1303	111	6.1	II	121	226	226	7000843
420	275	84	M10E1304	111	6.1	I	150	226	226	7000850
335	91	67	*	112	9.7	III	188	691	691	7000867
253	102	51	*	112	12.7	II	249	617	617	7000874
230	100	46	M10E1305	112	14.4	II	274	627	627	7000881
180	101	36	*	112	17.8	I	349	625	625	7000898
153	100	31	*	112	21.2	I	413	633	633	7000904
125	100	25	M10E1306	112	21.2	I	504	633	633	7000911
105	99	21	*	112	30.7	I	603	636	636	7000928
84	26	17	*	123	38.4	III	747	2404	2404	7000935
68	26	14	M10E1307	123	38.4	III	927	2404	2404	7000942
56	21	11	*	123	57.7	III	1129	3030	3030	7000959
45	21	9.1	*	123	70.6	II	1388	2979	2979	7000966
37	20	7.4	*	123	86.5	II	1693	3115	3115	7000973
30	22	6.0	*	123	106	I	2114	2836	2836	7000980
25	23	4.9	M10E1308	123	130	I	2564	2799	2799	7000997
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	-

* Made to Order

Note: When substituting an ULTIMA drive for a MOTODRIVE unit, there may be a slight difference in output horsepower and speed range. There will be dimensional differences.

MOTODRIVE - Parallel

1.50 Horsepower
9:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
4200	1750	466	M10C1550	100	0		23	54	54	7001000
2917	1215	324	*	111	1.4	III	32	78	78	7001017
2386	994	265	*	111	1.8	III	40	95	95	7001024
1944	810	216	M10C1543	111	2.2	III	49	117	117	7001031
1750	729	194	M10C1551	111	2.4	III	54	130	130	7001048
1544	643	171	*	111	2.7	III	61	147	147	7001048
1321	613	147	*	111	3.2	III	72	154	154	7001055
1069	585	119	M10C1554	111	3.9	II	88	162	162	7001062
942	594	104	*	111	4.5	II	100	159	159	7001079
840	350	93.2	M10C1810	121	5.1	II	113	270	270	7001086
672	280	74.6	M10C1555	121	6.2	II	141	338	338	7001086
559	233	62.0	*	122	7.6	III	169	406	406	7001093
453	189	50.2	M10C1805	122	9.3	III	209	501	501	7001109
365	152	40.5	M10C1806	122	11.4	II	259	621	621	7001116
300	125	33.3	M10C1809	122	14.0	II	315	756	756	7001123
247	103	27.4	*	122	17.1	II	383	918	918	7001130
198	82.5	22.0	M10C1801	122	20.9	III	477	1145	1145	7001147
162	67.3	17.9	*	122	25.6	III	585	1405	1405	7001154
134	55.7	14.8	*	122	31.4	III	707	1696	1696	7001161
110	45.6	12.2	M10C1807	123	38.4	III	858	2073	2073	7001178
88.6	36.1	9.8	*	123	47.1	III	1067	2619	2619	7001185
72.8	33.4	8.0	*	123	57.7	III	1299	2830	2830	7001192
59.2	34.0	6.5	M10C1808	123	70.6	II	1596	2781	2781	7001208
48.6	20.2	5.3	*	133	86.5	II	1945	4680	4680	7001215
39.6	17.0	4.4	*	133	106	II	2386	5561	5561	7001222
32.3	16.9	3.5	M10C1556	133	130	III	2926	5594	5594	7001239
26.4	8.8	2.6	*	243	159	III	3579	10737	10737	7001246
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	-

* Made to Order

(1) 1200 RPM Motor

5:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
3220	1325	644	M10E1500	100	0		29	71	71	7001253
2630	1325	526	*	111	0		36	71	71	7001260
2150	920	430	*	111	1.4	III	44	103	103	7001277
1750	753	350	M10E1501	111	1.8	II	54	126	126	7001284
1430	613	286	*	111	2.2	II	66	154	154	7001291
1170	625	234	*	111	2.7	II	81	151	151	7001307
950	723	190	*	111	3.2	I	100	131	131	7001314
780	674	156	M10E1502	111	3.9	I	121	140	140	7001321
644	265	129	*	121	5.1	III	147	357	357	7001338
520	212	104	M10E1503	121	6.2	III	182	446	446	7001345
420	212	84	M10E1504	121	6.2	III	225	446	446	7001352
350	208	70	*	112	9.7	II	270	454	454	7001369
265	213	53	*	112	12.7	I	357	445	445	7001376
230	215	46	M10E1505	112	14.4	I	411	439	439	7001383
189	78	38	*	122	17.1	III	499	1213	1213	7001390
152	63	30	*	122	20.9	III	622	1513	1513	7001406
125	63	25	M10E1506	122	20.9	III	756	1513	1513	7001413
103	42	21	*	122	31.4	II	922	2240	2240	7001420
84.4	35	17	*	123	38.4	II	1120	2671	2671	7001437
68.0	35	14	M10E1507	123	38.4	II	1390	2671	2671	7001444
55.8	34	11	*	123	57.7	I	1694	2797	2797	7001451
45.4	34	9.1	*	123	70.6	I	2082	2793	2793	7001468
37.2	15	7.4	*	133	86.5	III	2540	6172	6172	7001475
30.4	17	6.1	*	133	106	II	3112	5567	5567	7001482
24.8	17	5.0	M10E1508	133	130	II	3817	5586	5586	7001499
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	-

* Made to Order

Note: When substituting an ULTIMA drive for a MOTODRIVE unit, there may be a slight difference in output horsepower and speed range. There will be dimensional differences.

MOTODRIVE - Parallel

2.0 Horsepower
10:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
4200		420	M20C1000	200	0		30	110	110	7001505
3415	1150	420	*	200	0		37	110	110	7001505
2800	767	280	*	221	1.5	III	45	164	164	7001512
2283	625	228	M20C1023	221	1.8	III	55	202	202	7001536
1858	509	186	M20C1001	221	2.2	III	68	248	248	7001543
1527	418	153	M20C1024	221	2.8	III	83	301	301	7001550
1235	338	124	*	221	3.4	III	102	373	373	7001567
1019	279	102	M20C1002	221	4.1	III	124	452	452	7001574
840	230	84.0	M20C1013	221	5.1	III	150	548	548	7001581
672	232	67.2	M20C1003	221	6.2	III	188	543	543	7001598
559	153	55.9	*	222	7.6	III	226	824	824	7001604
453	124	45.3	M20C1010	222	9.3	III	279	1017	1017	7001611
365	100	36.5	*	222	11.4	III	345	1261	1261	7001628
300	82.1	30.0	M20C1004	222	14.0	III	420	1535	1535	7001635
247	67.6	24.7	M20C1005	222	17.1	III	510	1863	1863	7001642
198	54.2	19.8	M20C1011	222	20.9	II	636	2324	2324	7001659
162	53.8	16.2	M20C1008	222	25.6	II	780	2341	2341	7001666
134	57.3	13.4	M20C1009	222	31.4	II	942	2199	2199	7001673
109	29.9	10.9	M20C1022	233	38.4	III	1155	4220	4220	7001680
89.4	24.5	8.9	M20C1012	233	47.1	III	1411	5152	5152	7001697
72.5	20.7	7.2	*	233	57.7	III	1738	6082	6082	7001703
59.5	20.5	5.9	*	233	70.6	II	2119	6137	6137	7001710
48.6	20.8	4.8	*	233	86.5	II	2593	6050	6050	7001727
39.6	22.6	3.9	*	233	106	II	3181	5567	5567	7001734
32.1	11.5	3.2	*	243	130	III	3932	11008	11008	7001741
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	-

* Made to Order

5:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
3220	1750	644	M10E1700	100	0		39	72	72	7001758
2630	1750	526	*	100	0		48	72	72	7001765
2150	1215	430	*	111	1.4	II	59	104	104	7001772
1750	1080	350	M10E1701	111	1.8	I	72	117	117	7001789
1430	972	286	*	111	2.2	I	88	130	130	7001796
1170	1066	234	*	111	2.7	I	108	118	118	7001802
947	515	189	*	121	3.4	III	133	245	245	7001819
782	425	156	M10E1702	121	4.1	III	161	297	297	7001826
644	350	129	*	121	5.1	III	196	360	360	7001833
520	280	104	M10E1703	121	6.2	II	242	450	450	7001840
420	280	84	M10E1704	121	7.6	II	300	450	450	7001857
346	188	69	*	122	9.3	III	364	670	670	7001864
281	153	56	*	122	11.4	III	449	826	826	7001871
230	125	46	M10E1705	122	14.0	III	548	1008	1008	7001888
189	103	38	*	122	17.1	III	665	1224	1224	7001895
152	83	30	*	122	20.9	II	830	1527	1527	7001901
125	83	25	M10E1706	122	20.9	II	1008	1527	1527	7001918
103	56	21	*	122	31.4	II	1229	2262	2262	7001925
84	57	17	*	123	38.4	I	1503	2200	2200	7001932
68	57	14	M10E1707	123	38.4	I	1854	2200	2200	7001949
56	54	11	*	123	57.7	I	2259	2346	2346	7001956
46	25	9.1	*	133	70.6	II	2764	5085	5085	7001963
37	21	7.5	*	133	86.5	II	3382	6050	6050	7001970
30	23	6.1	*	133	106	I	4149	5567	5567	7001987
25	23	5.0	M10E1708	133	130	I	5089	5555	5555	7001994
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	-

* Made to Order

Note: When substituting an ULTIMA drive for a MOTODRIVE unit there may be a slight difference in output horsepower and speed range. There will be dimensional differences.

MOTODRIVE - Parallel

3.0 Horsepower
10:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
4200	1750	420	M20C1500	200	0		45	108	108	7002007
2800	1167	280	*	221	1.5	III	68	162	162	7002014
2283	951	228	M20C1520	221	1.8	III	83	199	199	7002038
1858	774	186	M20C1514	221	2.2	III	102	244	244	7002045
1527	636	153	M20C1508	221	2.8	III	124	297	297	7002052
1235	515	124	*	221	3.4	II	153	367	367	7002069
1019	425	102	*	221	4.1	II	185	445	445	7002076
840	350	84.0	M20C1509	221	5.1	II	225	540	540	7002083
672	360	67.2	M20C1515	221	6.2	II	281	525	525	7002090
559	233	55.9	*	222	7.6	III	339	812	812	7002106
453	189	45.3	M20C1510	222	9.3	III	418	1003	1003	7002113
365	152	36.5	*	222	11.4	II	518	1242	1242	7002120
300	125	30.0	M20C1511	222	14.0	III	630	1513	1513	7002137
247	112	24.7	*	222	17.1	II	765	1692	1692	7002144
198	108	19.8	M20C1505	222	20.9	II	954	1743	1743	7002151
162	67.3	16.2	*	232	25.6	II	1170	2809	2809	7002168
132	55.2	13.2	M20C1517	232	31.4	III	1427	3425	3425	7002175
109	45.5	10.9	M20C1518	233	38.4	II	1733	4160	4160	7002182
89.4	37.2	8.9	M20C1512	233	47.1	II	2116	5078	5078	7002199
72.5	34.5	7.2	M20C1513	233	57.7	II	2607	5474	5474	7002205
59.5	34.0	5.9	*	233	70.6	I	3178	5562	5562	7002212
48.3	20.1	4.8	M20C1519	243	86.5	III	3912	9389	9389	7002229
39.3	16.4	3.9	*	243	106	II	4817	11561	11561	7002236
32.1	17.6	3.2	*	243	130	II	5897	10769	10769	7002243
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	-

* Made to Order

(1) 1200 RPM Motor

5:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
3220	1050	644	M20E1300	200	0		59	180	180	7002250
2630	1050	526	*	200	0		72	180	180	7002267
2147	700	429	*	221	1.5	III	88	270	270	7002274
1750	571	350	M20E1301	221	1.8	III	108	331	331	7002281
1425	465	285	*	221	2.2	III	133	407	407	7002298
1171	382	234	*	221	2.8	II	161	495	495	7002304
950	382	190	M20E1302	221	2.8	II	199	495	495	7002311
780	339	156	*	221	4.1	II	243	558	558	7002328
644	320	129	*	221	5.1	II	294	591	591	7002335
515	360	103	*	221	6.2	I	367	525	525	7002342
420	360	84	M20E1303	222	7.6	I	450	525	525	7002359
346	113	69	*	222	9.3	II	546	1675	1675	7002366
280	117	56	M20E1304	222	11.4	II	675	1611	1611	7002373
230	114	46	*	222	14.0	II	822	1654	1654	7002380
188	111	38	*	222	17.1	I	1004	1702	1702	7002397
152	108	30	*	222	20.9	II	1245	1743	1743	7002403
125	108	25	M20E1305	222	20.9	I	1513	1743	1743	7002410
103	103	21	*	222	31.4	I	1844	1844	1844	7002427
84	36	17	*	233	38.4	I	2261	5200	5200	7002734
68	36	14	M20E1306	233	38.4	II	2781	5200	5200	7002441
56	35	11	*	233	57.7	I	3400	5474	5474	7002458
46	34	9.1	*	233	70.6	I	4146	5562	5562	7002465
37	33	7.4	*	233	86.5	I	5091	5752	5752	7002472
30	16	6.0	*	243	106.0	II	6283	11561	11561	7002489
25	17	4.9	M20E1307	243	130.0	II	7692	11008	11008	7002496
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	-

* Made to Order

Note: When substituting an ULTIMA drive for a MOTODRIVE unit there may be a slight difference in output horsepower and speed range. There will be dimensional differences.

MOTODRIVE - Parallel

5.0 Horsepower
10:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
4200	1200	420	M30C1000	300	0		75	263	263	7002502
2800	800	280	*	331	1.5	III	113	394	394	7002519
2283	652	228	M30C1003	331	1.8	III	138	483	483	7002526
1875	536	188	M30C1009	331	2.2	III	168	588	588	7002540
1522	435	152	M30C1004	331	2.8	III	207	725	725	7002557
1250	357	125	*	331	3.4	III	252	882	882	7002564
1014	290	101	M30C1018	331	4.1	III	311	1087	1087	7002571
830	257	83.0	*	331	5.1	III	380	1227	1227	7002588
677	290	67.7	M30C1005	331	6.2	II	465	1085	1085	7002595
550	157	55.0	*	332	7.6	III	573	2006	2006	7002601
452	129	45.2	M30C1006	332	9.3	III	697	2440	2440	7002618
372	106	37.2	M30C1007	332	11.4	III	848	2967	2967	7002625
300	85.7	30.0	M30C1001	332	14.0	II	1050	3676	3676	7002632
246	81.9	24.6	*	332	17.1	II	1283	3849	3849	7002649
200	78.6	20.0	*	332	20.9	II	1576	4011	4011	7002656
162	79.2	16.2	M30C1008	332	25.6	II	1943	3981	3981	7002663
132	77.3	13.2	M30C1002	332	31.4	I	2378	4077	4077	7002670
108	30.9	10.8	*	343	38.4	III	2911	10189	10189	7002687
88.8	25.4	8.8	*	343	47.1	III	3549	12421	12421	7002694
72.4	26.7	7.2	M30C1019	343	57.7	II	4352	11792	11792	7002700
59.4	26.9	5.9	*	343	70.6	II	5305	11726	11726	7002717
47.8	13.7	4.7	*	353	86.5	III	6595	23083	23083	7002724
39.3	13.6	3.9	M30C1011	353	106	III	8028	23254	23254	7002731
32.3	13.5	3.2	*	353	130	III	9754	23409	23409	7002748
26.6	13.6	2.7	*	353	159	II	11836	23109	23109	-
21.5	14.3	2.1	*	353	195	I	14657	22036	22036	-

* Made to Order

5:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
3220	1750	644	M20E1500	200	0		98	180	180	7002755
2630	1750	526	*	200	0		120	180	180	7002762
2147	1167	429	*	221	1.5	II	147	270	270	7002779
1750	951	350	M20E1501	221	1.8	II	180	331	331	7002786
1431	867	286	*	221	2.2	I	220	364	364	7002793
1167	851	233	*	221	2.8	I	270	370	370	7002809
950	851	190	M20E1502	221	2.8	I	332	370	370	7002816
780	424	156	*	231	4.1	III	404	744	744	7002823
631	343	126	*	231	5.1	III	499	918	918	7002830
519	282	104	*	231	6.2	II	607	1116	1116	7002847
420	282	84	M20E1503	231	6.2	II	750	1116	1116	7002854
346	280	69	*	222	9.3	I	910	1127	1127	7002861
280	280	56	M20E1504	222	9.3	I	1125	1127	1127	7002878
230	125	46	*	232	14.0	II	1370	2521	2521	7002885
188	102	38	*	232	17.1	II	1673	3079	3079	7002892
153	83	31	*	232	20.9	II	2055	3782	3782	7002908
125	83	25	M20E1505	232	20.9	I	2521	3782	3782	7002915
102	77	20	*	232	31.4	I	3102	4077	4077	7002922
83	45	17	*	243	38.4	III	3797	6987	6987	7002939
68	45	14	M20E1506	243	38.4	II	4634	6987	6987	7002946
56	30	11	*	243	57.7	II	5676	10444	10444	7002953
46	26	9.1	*	243	70.6	II	6909	12026	12026	7002960
37	26	7.4	*	243	86.5	I	8504	11906	11906	7002977
30	26	6.0	M20E1507	243	86.5	I	10504	11906	11906	7002724
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	-

* Made to Order

Note: When substituting an ULTIMA drive for a MOTODRIVE unit there may be a slight difference in output horsepower and speed range. There will be dimensional differences.

MOTODRIVE - Parallel

7.50 Horsepower
10:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
4200	1750	420	M30C1012	300	0		113	270	270	7002984
2800	1167	280	*	331	1.5	III	169	405	405	7003004
2283	951	228	M30C1020	331	1.8	III	207	497	497	7003011
1875	781	188	*	331	2.2	III	252	605	605	7003028
1522	634	152	M30C1013	331	2.8	III	311	745	745	7003035
1250	521	125	*	331	3.4	II	378	908	908	7003042
1014	423	101	M30C1021	331	4.1	II	466	1118	1118	7003059
830	385	83.0	M30C1014	331	5.1	II	569	1227	1227	7003066
683	285	68.3	M30C1022	341	6.2	III	692	1661	1661	7003073
550	229	55.0	*	332	7.6	II	860	2064	2064	7003080
452	188	45.2	M30C1016	332	9.3	II	1046	2509	2509	7003097
372	173	37.2	*	332	11.4	II	1272	2739	2739	7003103
300	168	30.0	*	332	14.0	I	1576	2816	2816	7003110
244	102	24.4	*	342	17.1	III	1936	4646	4646	7003127
199	82.9	19.9	M30C1015	342	20.9	III	2375	5699	5699	7003134
163	68.1	16.3	*	342	25.6	III	2892	6942	6942	7003141
134	55.7	13.4	M30C1017	342	31.4	II	3534	8481	8481	7003158
108	45.1	10.8	*	343	38.4	II	4367	10480	10480	7003165
88.8	43.3	8.8	*	343	47.1	II	5323	10906	10906	7003172
73.0	30.4	7.3	M30C1023	353	57.7	III	6471	15531	15531	7003189
58.5	24.4	5.8	*	353	70.6	III	8081	19394	19394	7003196
47.8	19.9	4.7	*	353	86.5	III	9893	23742	23742	7003202
39.3	20.1	3.9	*	353	106	II	12042	23524	23524	7003219
32.3	19.6	3.2	*	353	130	I	14631	24098	24098	7003226
27.3	18.8	2.7	*	35.3	159	I	1732	25101	25101	-

* Made to Order

5:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
3220	1325	644	M30E1300	300	0		147	357	357	7003233
2630	1325	526	*	300	0		180	357	357	7003240
2147	883	429	*	331	1.5	III	220	535	535	7003257
1750	720	350	*	331	1.8	III	270	656	656	7003264
1430	720	286	M30E1301	331	1.8	III	331	656	656	7003271
1167	480	233	*	331	2.8	II	405	985	985	7003288
953	392	191	*	331	3.4	II	496	1206	1206	7003295
780	363	156	M30E1302	331	4.1	II	606	1301	1301	7003301
631	382	126	*	331	5.1	I	749	1236	1236	7003318
519	214	104	*	341	6.2	III	910	2212	2212	7003325
420	214	84	M30E1303	341	6.2	II	1125	2212	2212	7003332
346	172	69	*	332	9.3	II	1365	2747	2747	7003349
282	171	56	*	332	11.4	I	1673	2763	2763	7003356
230	168	46	*	332	14.0	I	2055	2816	2816	7003363
190	168	38	*	332	14.0	I	2488	2816	2816	7003370
153	63	31	*	342	20.9	III	3097	7527	7527	7003387
126	52	25	*	342	25.6	II	3758	9133	9133	7003394
103	54	21	M30E1305	342	31.4	II	4609	8731	8731	7003400
83	44	17	*	343	38.4	II	5696	10788	10788	7003417
68	43	14	*	343	47.1	I	6944	10906	10906	7003424
56	42	11	*	343	57.7	I	8514	11190	11190	7003431
45	42	9.0	M30E1306	343	57.7	I	10504	11190	11190	7003448
37	20	7.3	*	353	86.5	II	12903	23083	23083	7003455
30	21	6.0	*	353	106	II	15707	22990	22990	7003462
25	20	5.0	*	353	130	I	19084	23634	23634	7003479
21	20	4.2	*	353	159	I	22607	23482	23482	-

* Made to Order

Note: When substituting an ULTIMA drive for a MOTODRIVE unit there may be a slight difference in output horsepower and speed range. There will be dimensional differences.

MOTODRIVE - Parallel

10.0 Horsepower
8:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
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	-

* Made to Order

5:1 Speed Range

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In - Lbs)			ULTIMA Substitute
Max	Int	Min					Max Spd	Int Spd	Min Spd	
3220	1750	644	M30E1500	300	0		196	360	360	7003486
2630	1750	526	*	300	0		240	360	360	7003493
2147	1167	429	*	331	1.5	II	294	540	540	7003509
1750	951	350	*	331	1.8	II	360	663	663	7003516
1430	951	286	M30E1501	331	1.8	II	441	663	663	7003523
1167	634	233	*	331	2.8	II	540	994	994	7003530
953	592	191	*	331	3.4	I	662	1065	1065	7003547
780	581	156	M30E1502	331	4.1	I	808	1085	1085	7003554
631	578	126	*	331	5.1	I	998	1090	1090	7003561
524	285	105	*	341	6.2	II	1204	2215	2215	7003578
420	285	84	M30E1503	341	6.2	I	1501	2215	2215	7003585
346	285	69	*	332	9.3	I	1820	2212	2212	7003592
282	282	56	*	332	11.4	I	2231	2231	2231	7003608
230	125	46	*	342	14.0	III	2740	5042	5042	7003615
190	125	38	M30E1504	342	14.0	II	3317	5042	5042	7003622
153	83	31	*	342	20.9	II	4130	7599	7599	7003639
126	68	25	*	342	25.6	II	5011	9220	9220	7003646
103	73	21	M30E1505	342	31.4	I	6146	8604	8604	7003653
83	71	17	*	343	38.4	I	7594	8892	8892	7003660
67	36	13	*	353	47.1	III	9415	17323	17323	7003677
56	30	11	*	353	57.7	II	11294	20780	20780	7003684
45	30	9.0	M30E1506	353	57.7	II	14006	20780	20780	7003691
37	27	7.3	*	353	86.5	I	17205	23574	23574	7003707
30	27	6.0	*	353	106	I	20943	23254	23254	-

* Made to Order

Note: When substituting an ULTIMA drive for a MOTODRIVE unit there may be a slight difference in output horsepower and speed range. There will be dimensional differences.

MOTODRIVE - 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
127	57.9	16.1	M40C1510	452	31.4	II	7462	16334	16334
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

* Made to Order

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

* Made to Order

MOTODRIVE - 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

* Made to Order

NOTE: All sections above use 1200 RPM motors

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
190	125	38	M40E1304	452	17.1	III	6634	10084	10084
154	84	31	*	452	20.9	III	8182	15054	15054
129	70	26	*	452	25.6	II	9747	17935	17935
104	79	21	M40E1305	452	31.4	I	12174	16001	16001
84	53	17	*	453	38.4	II	15032	23611	23611
6—7	53	13	*	453	47.1	I	18829	23776	23776
57	57	11	*	453	57.7	I	22301	22301	22301

* Made to Order

MOTODRIVE - 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

* Made to Order

NOTE: All selections above use 1200 RPM motors

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

* Made to Order

MOTODRIVE - 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

* Made to Order

NOTE: All selections above use 1200 RPM motors

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

* Made to Order

MOTODRIVE - 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	lii	1438	1759	1759
1427	1167	357	*	661	1.8	li	1767	2161	2161
1171	957	293	*	661	2.2	li	2153	2634	2634
956	782	239	*	661	2.8	li	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	lii	7109	8696	8696
279	228	70	*	652	9.3	lii	9044	11063	11063
223	182	56	*	652	11.4	li	11302	13826	13826
187	187	47	*	652	14	I	13491	16503	16503
153	153	38	*	652	17.1	I	16528	19320	19320

* Made To Order

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	li	1719	2701	2701
1492	950	466	*	661k	1.8	li	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	li	5799	9113	9113
448	285	140	*	652k	6.2	li	7039	11062	11062
371	236	116	*	652k	7.6	li	8498	13354	13354
291	185	91	*	652k	9.3	li	10812	16990	16990
233	151	73	*	652k	11.4	li	13511	20933	20933
195	167	61	*	652k	14	I	16128	18873	18873

* Made To Order

MOTODRIVE - 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

* Made to Order

(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

* Made to Order

(1) 1200 RPM Motor

MOTODRIVE - 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

* Made to Order

(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

* Made to Order

(1) 1200 RPM Motor

MOTODRIVE - Right Angle

0.75 Horsepower
10:0 Speed Range

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs	Output HP @ Max RPM	ULTIMA Substitute
Max	Min							
466	47	M10C1531	1W16	10	III	80	0.59	7003738
367	37	M10C1232	1W16	12.7	III	100	0.58	7003745
311	31	*	1W16	15	III	118	0.58	7003752
259	26	*	1W16	18	II	139	0.57	7003769
233	23	M10C1251	1W16	20	II	154	0.57	7003776
186	19	M10C1238	1W16	25	II	186	0.55	7003783
155	16	M10C1227	1W16	30	I	207	0.51	7003790
117	12	M10C1254	1W21	40	II	270	0.50	7003806
93	9.3	M10C1235	1W21	50	II	325	0.48	7003813
78	7.8	M10C1236	1W21	60	I	390	0.48	7003820
67	6.7	*	1C16	70	III	540	0.57	7003837
54	5.4	*	1C16	86	II	651	0.56	7003844
46	4.6	M10C1237	1C16	101	II	738	0.54	7003851
39	3.9	*	1C16	121	I	818	0.50	7003868
32	3.2	*	1C16	144	I	974	0.50	7003875
29	2.9	M10C1231	1C21	162	II	1074	0.49	7003882
24	2.4	*	1C16	192	I	1272	0.49	7003899
19	1.9	*	1C16	240	I	1526	0.47	7003905
16	1.6	*	1C21	288	I	1831	0.47	7003912
11	1.1	*	1C21(1)	288	I	2685	0.46	7003929

* Made to Order

(1) 1200 RPM Motor

5:1 Speed Range

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs	Output HP @ Max RPM	ULTIMA Substitute
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	7004049
45	9.0	*	1W21	60	III	672	0.48	7004056
37	7.4	*	1C16	86	II	920	0.54	7004063
30	6.0	*	1C16	101	II	1113	0.53	7004070
25	5.0	*	1C16	121	I	1235	0.49	7004087
20	4.0	*	1C16	144	I	1544	0.49	7004100
16	3.3	*	1C16	162	I	1836	0.48	7004117
13	2.7	*	1C16	192	I	2196	0.47	7004124
10	2.1	*	1C21	240	I	2890	0.47	7004131
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	-

* Made to Order

NOTE: When substituting an ULTIMA drive for a MOTODRIVE unit there may be a slight difference in output horsepower and speed range. There will be dimensional differences.

MOTODRIVE - Right Angle

1.0 Horsepower
9:1 Speed Range

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs	Output HP @ Max RPM	ULTIMA Substitute
Max	Min							
420	47	M10C1532	1W16	10	III	123	0.82	7004162
331	37	M10C1552	1W16	12.7	II	152	0.80	7004179
280	31	*	1W16	15	II	180	0.80	7004186
233	26	M10C1519	1W16	18	I	211	0.78	7004193
210	23	M10C1523	1W16	20	I	234	0.78	7004209
168	19	M10C1242	1W16	25	I	285	0.76	7004216
140	16	M10C1252	1W21	30	II	338	0.75	7004223
105	12	M10C1520	1W21	40	I	426	0.71	7004230
84	9.3	M10C1521	1C16	50	II	593	0.79	7004247
70	7.8	*	1C16	60	II	711	0.79	7004254
60	6.7	M10C1536	1C16	70	II	819	0.78	7004261
49	5.4	*	1C16	86	I	981	0.76	7004278
42	4.6	*	1C16	101	I	1122	0.74	7004285
35	3.9	*	1C21	121	II	1325	0.73	7004292
29	3.2	*	1C21	144	II	1513	0.70	7004308
26	2.9	*	1C21	162	I	1702	0.70	7004315
22	2.4	*	1C21	192	I	2017	0.70	7004322
18	1.9	*	1C28	240	III	2413	0.67	7004339
15	1.6	*	1C21	288	I	2809	0.65	-

* Made to Order

5:1 Speed Range

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs	Output HP @ Max RPM	ULTIMA Substitute
Max	Min							
280	56	*	1W16	10	II	194	0.86	7004377
230	46	M10E1200	1W16	12.7	II	222	0.81	7004384
190	38	*	1W16	15	II	265	0.80	7004391
156	31	*	1W16	18	I	320	0.79	7004407
125	25	*	1W16	20	I	388	0.77	7004414
100	20	M10E1201	1W21	30	I	473	0.75	7004421
84	17	*	1W21	30	II	555	0.74	7004438
68	14	M10E1202	1W21	40	I	649	0.70	7004445
56	11	*	1W21	50	I	754	0.67	7004452
45	9.0	M10E1203	1C16	70	II	1120	0.80	7004469
37	7.4	*	1C16	86	I	1312	0.77	7004476
30	6.0	*	1C16	101	I	1597	0.76	7004483
25	5.0	*	1C21	121	II	1815	0.72	7004490
20	4.0	*	1C21	144	II	2269	0.72	7004513
16	3.3	*	1C21	162	I	2600	0.68	7004520
13	2.7	*	1C21	192	I	3177	0.68	7004537
10	2.1	*	1C21	240	I	3935	0.64	-

* Made to Order

NOTE: When substituting an ULTIMA drive for a MOTODRIVE unit there may be a slight difference in output horsepower and speed range. There will be dimensional differences.

MOTODRIVE - Right Angle

1.50 Horsepower
9:1 Speed Range

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs	Output HP @ Max RPM	ULTIMA Substitute
Max	Min							
420	47	*	1W16	10	II	192	1.28	7004568
331	37	M10C1553	1W16	12.7	I	238	1.25	7004575
280	31	*	1W16	15	I	281	1.25	7004582
233	26	M10C1253	1W21	18	II	338	1.25	7004599
210	23	M10C1534	1W21	20	II	372	1.24	7004605
168	19	M10C1537	1W21	25	I	454	1.21	7004612
140	16	M10C1545	1C16	30	II	563	1.25	7004629
117	13	*	1C16	36	II	675	1.25	7004636
105	12	M10C1544	1C16	40	II	750	1.25	7004643
84	9.3	M10C1535	1C16	50	I	923	1.23	7004650
70	7.8	*	1C16	60	I	1107	1.23	7004667
60	6.7	M10C1538	1C16	70	I	1292	1.23	7004674
49	5.4	*	1C16	86	I	1536	1.19	7004681
42	4.6	*	1C21	101	I	1804	1.19	7004698
35	3.9	*	1C21	121	I	2070	1.14	7004704
29	3.2	M10C1529	1C21	144	I	2463	1.14	7004711
26	2.9	*	1C28	162	II	2601	1.07	7004728
22	2.4	*	1C28	192	II	3083	1.07	7004735
18	1.9	*	1C28	240	II	3709	1.03	7004742

* Made to Order

5:1 Speed Range

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs	Output HP @ Max RPM	ULTIMA Substitute
Max	Min							
350	70	*	1W16	10	I	225	1.25	7004773
280	56	*	1W16	10	I	288	1.28	7004780
230	46	M10E1400	1W16	12.7	I	345	1.26	7004797
190	38	*	1W16	12.7	I	418	1.26	7004803
156	31	*	1W21	18	II	511	1.26	7004810
125	25	*	1W21	20	II	635	1.26	7004827
100	20	M10E1401	1C16	30	I	769	1.22	7004841
84	17	*	1C16	30	II	960	1.28	7004858
68	14	M10E1402	1C16	40	II	1186	1.28	7004865
56	11	*	1C16	50	I	1396	1.24	7004872
45	9.0	M10E1403	1C16	70	I	1737	1.24	7004889
37	7.4	*	1C16	70	I	2070	1.22	7004896
30	6.0	*	1C21	86	II	2605	1.24	7004902
25	5.0	*	1C21	101	I	3000	1.19	7004919
20	4.0	*	1C21	144	I	3561	1.13	7004933
16	3.3	*	1C28	144	III	4318	1.13	7004940
13	2.7	*	1C28	192	II	5139	1.10	7004957
11	2.2	*	1C28	240	II	5844	1.02	-

* Made to Order

NOTE: When substituting an ULTIMA drive for a MOTODRIVE unit there may be a slight difference in output horsepower and speed range. There will be dimensional differences.

MOTODRIVE - Right Angle

2.0 Horsepower
10:1 Speed Range

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs	Output HP @ Max RPM	ULTIMA Substitute
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	-

* Made to Order

5:1 Speed Range

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs	Output HP @ Max RPM	ULTIMA Substitute
Max	Min							
350	70	*	1W21	10	II	310	1.72	7004988
280	56	*	1W21	10	II	394	1.75	7004995
230	46	M10E1600	1W21	12.7	II	477	1.74	7005008
190	38	*	1W21	15	I	567	1.71	7005015
156	31	*	1W21	18	I	689	1.70	7005022
125	25	*	1W21	25	I	827	1.64	7005039
100	20	M10E1601	1C16	30	I	1078	1.71	7005046
84	17	*	1C16	40	I	1276	1.70	7005060
68	14	M10E1602	1C16	40	I	1576	1.70	7005077
56	11	*	1C21	50	II	1913	1.70	7005084
45	9.0	M10E1603	1C21	60	II	2381	1.70	7005191
37	7.4	*	1C21	70	I	2851	1.68	7005107
30	6.0	*	1C21	86	I	3529	1.68	7005114
25	5.0	*	1C21	101	I	4059	1.61	7005121
20	4.0	*	1C28	144	II	4853	1.54	7005145
17	3.3	*	1C28	162	I	5305	1.39	7005152
13	2.7	*	1C28	192	I	6494	1.39	7005169
11	2.2	*	1C28	192	I	7972	1.39	-
9	1.8	*	1C28	240	I	9454	1.35	-

* Made to Order

NOTE: When substituting an ULTIMA drive for a MOTODRIVE unit there may be a slight difference in output horsepower and speed range. There will be dimensional differences.

MOTODRIVE - Right Angle

3.0 Horsepower
10:1 Speed Range

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	*	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

* Made to Order

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

* Made to Order

MOTODRIVE - Right Angle

5.0 Horsepower
10:1 Speed Range

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

* Made to Order

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

* Made to Order

MOTODRIVE - Right Angle

7.50 Horsepower
10:1 Speed Range

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

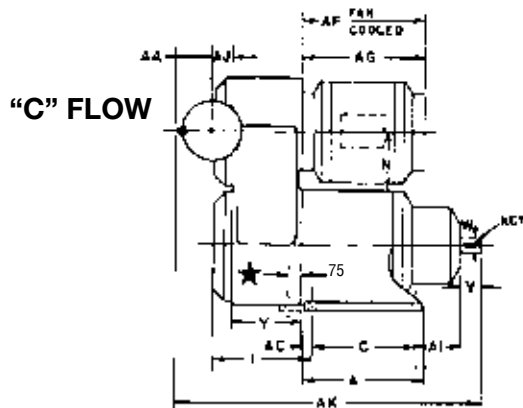
* Made to Order

5:1 Speed Range

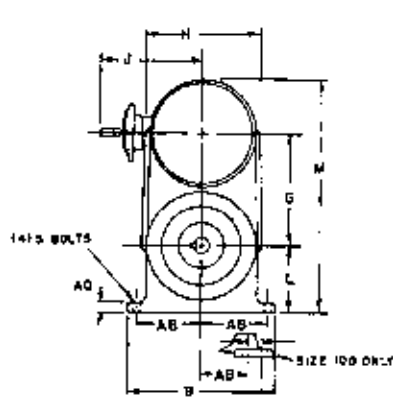
Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs	Output HP @ Max RPM
Max	Min						
350	70	*	3C28	10	II	1203	6.68
280	56	*	3C28	10	II	1537	6.83
230	46	*	3C28	12.7	II	1850	6.75
190	38	*	3C28	20	II	2216	6.68
155	31	*	3C28	20	II	2745	6.75
125	25	*	3C28	20	II	3429	6.80
100	20	*	3C28	25	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

* Made to Order

MOTODRIVE - Parallel VERTICAL NO REDUCER

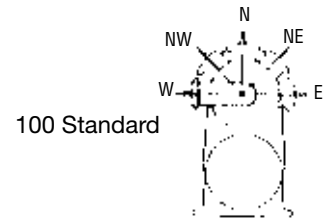


"C" FLOW

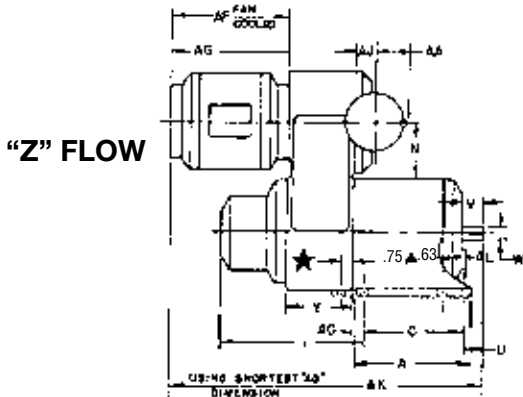


Assembly 100 Standard

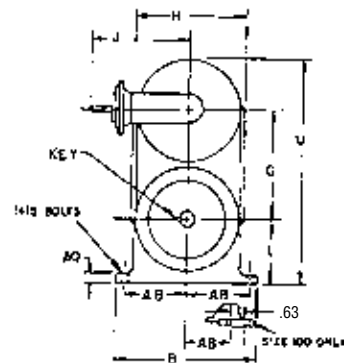
"C" FLOW ASSEMBLY



100 Standard

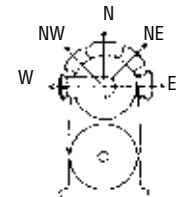


"Z" FLOW



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

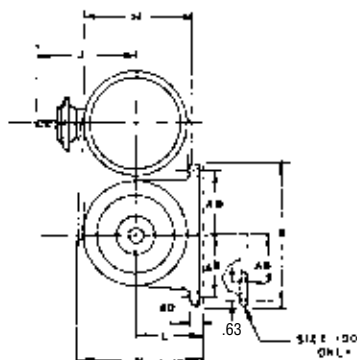
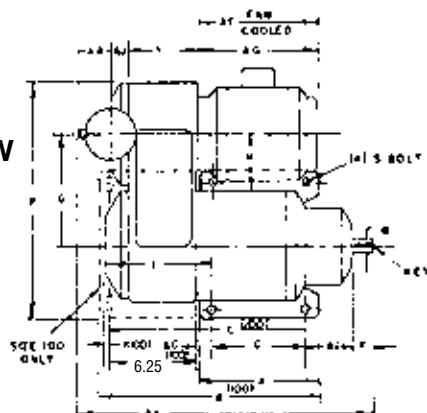
Size	N	S	V	W*	Y	AA	AB	AC	AI
050	3.75	.37	1.56	.625	4.25	1.56	3.25	3.56	2.31
100	4.03	.50	2.31	.750	5.25	2.00	3.75	-	2.81
200	4.94	.50	2.88	1.000	6.25	3.13	5.69	1.31	3.25
300	6.38	.63	3.63	1.250	7.75	4.19	6.81	1.19	3.13
400	7.88	.75	4.37	1.500	9.25	5.00	8.38	1.19	3.56
500	40.63	.88	5.88	2.000	11.00	6.00	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: +.00/-.005" through 1.125" dia., +.000/-.001" others

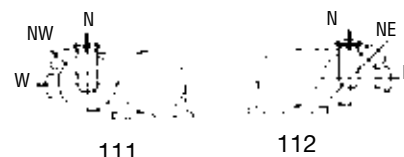
Size	AJ	AK	AQ	Key	Z-Flow Only		
					I	U	AK
050	.81	17.63	.44	3/16 sq X 1.00	8.13	1.69	23.13
100	.88	21.50	.50	3/16 sq X 1.75	8.56	2.94	26.31
200	1.56	26.88	.88	1/4 sq X 2.06	13.56	2.38	30.69
300	1.75	32.94	1.25	1/4 sq X 2.19	16.56	2.44	35.25
400	2.44	41.69	1.25	3/8 sq X 3.44	19.88	2.69	43.56
500	3.44	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

MOTODRIVE - Parallel HORIZONTAL NO REDUCER

"C" FLOW

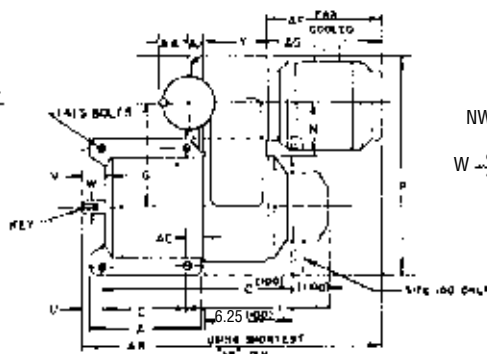
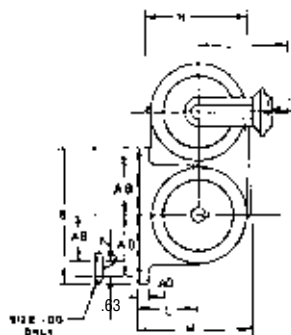


"C" FLOW ASSEMBLY



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: +.00/-.005" through 1.125" dia., +.000/-.001" others

Size	Z-Flow Only				I	U	AK
	AJ	AK	AQ	Key			
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

MOTODRIVE - Parallel VERTICAL TRUNNION NO REDUCER

Introduction

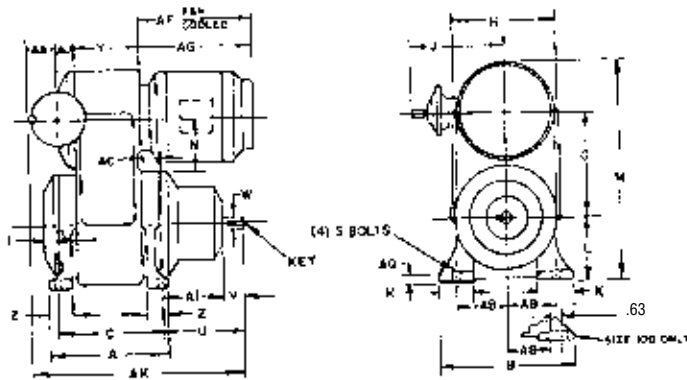
DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

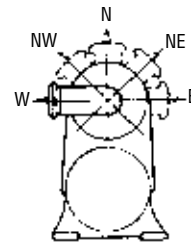
REEVES ULTIMA



Assembly 106

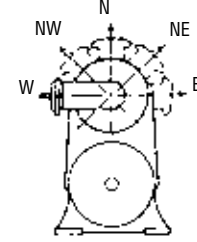
"C" FLOW

"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: +.00/-.005" through 1.125" dia., +.000/-.001" others

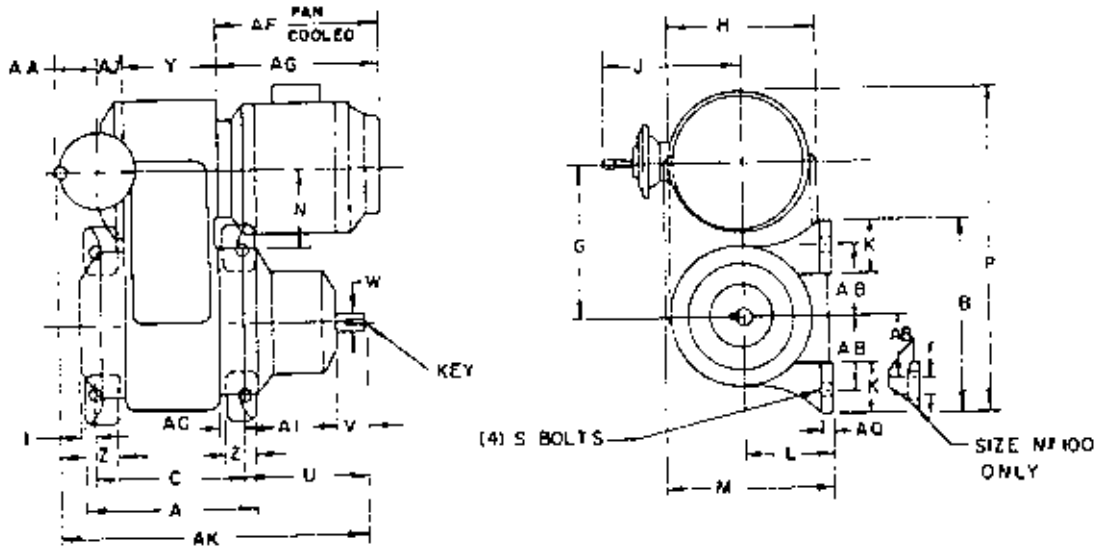
Size	AJ	AK	AQ	Z	Key	Z-Flow Only		
						I	U	AK
050	.81	12.25	.44	1.94	3/16 sq X 1.00	2.69	2.06	17.75
100	.88	15.00	.50	2.13	3/16 sq X 1.75	2.88	3.00	19.81
200	1.56	21.31	.88	2.50	1/4 sq X 2.06	5.81	4.19	24.38
300	1.75	26.81	1.25	3.25	1/4 sq X 2.81	7.31	5.13	27.88
400	2.44	32.75	1.25	3.75	3/8 sq X 3.44	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

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

(1) 45° Assemblies available on sizes 100 thru 600K

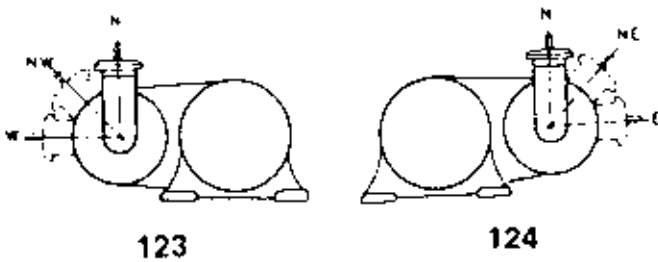
All dimensions are in inches

MOTODRIVE - Parallel
HORIZONTAL TRUNNION NO REDUCER

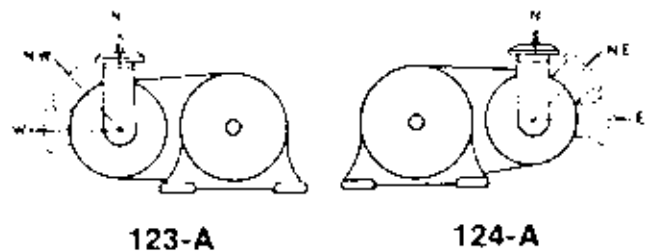


"C" FLOW

"C" FLOW ASSEMBLIES



"Z" FLOW ASSEMBLIES



MOTODRIVE - 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: $+.00/-0.005$ " 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

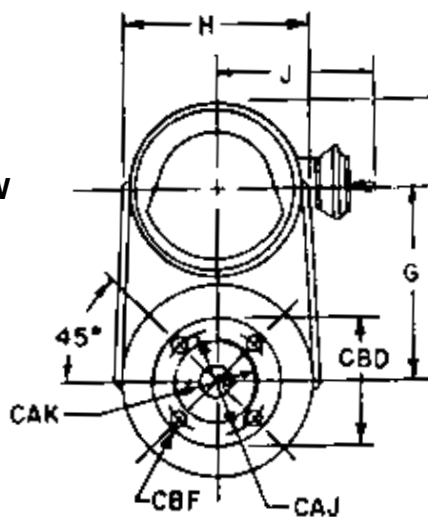
All dimensions are in inches

MOTODRIVE - Parallel

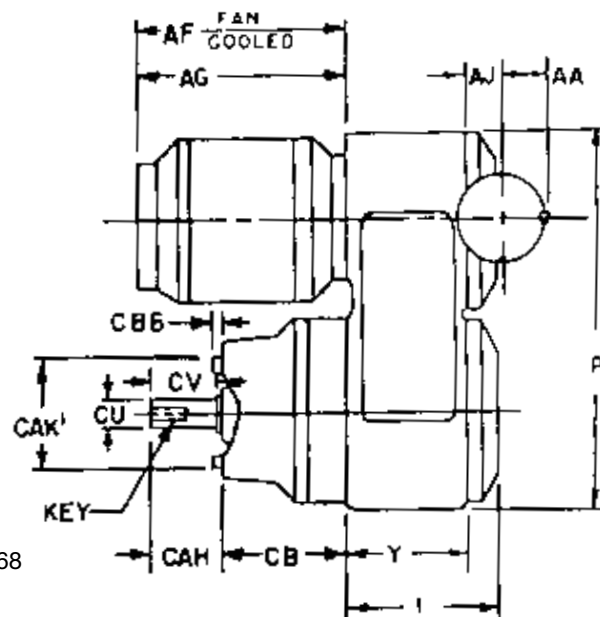
NEMA "C" FACE

OUTPUT SHAFT DOWN - NO REDUCER

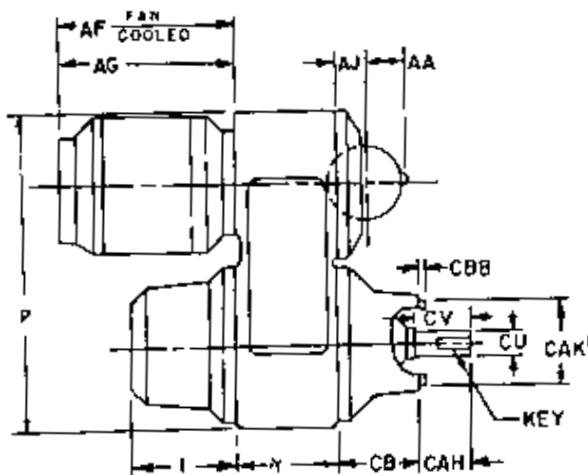
"C" FLOW



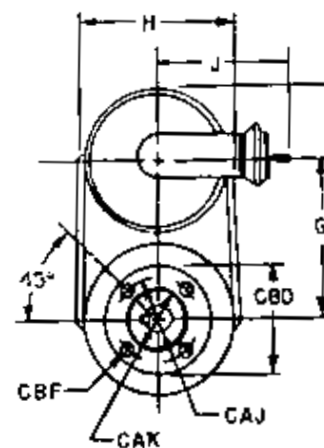
ASSEMBLY 168



"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: +.00/-.005" through 1.125" dia., +.000/-.001" others

Size	CAH	CAJ	CAK	CAK	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), gV2 (200) or 11 (300) to CB Dimension.

(2) Extended Assembly - Add 1.88 (200) or 29/s (300) to CB Dimension.

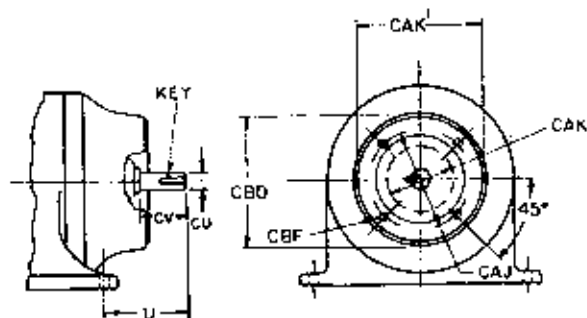
(3) Not available in Extended Assembly.

(4) Not available in Assembly 168-EA.

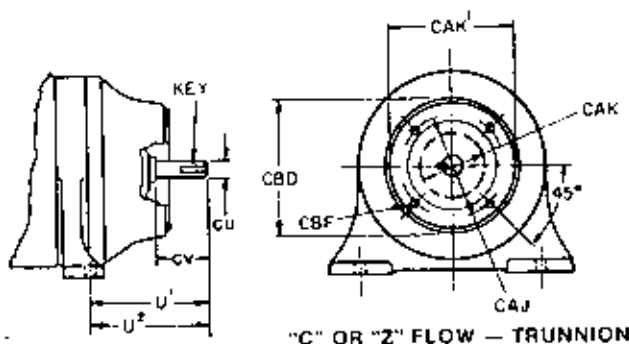
All dimensions are in inches

MOTODRIVE - Parallel

FOOT MOUNTING WITH NEMA C-FACE OUTPUT



"C" OR "Z" FLOW — STANDARD



"C" OR "Z" FLOW — TRUNNION

Add prefix "c" to assembly number for C-Face output mounting

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

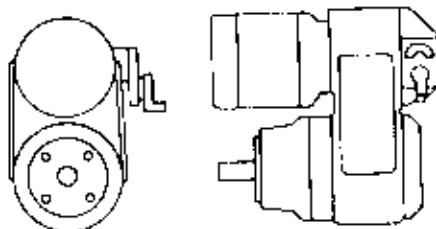
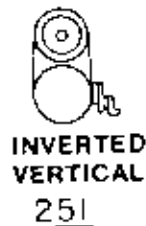
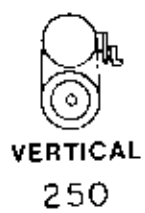
Size	Output Mtg.	U	U1 "Z"	2 "C"
050	56C	3.32	3.69	3.69
100	140TDC	6.06	6.06	6.06
200	180TC	3.78	5.59	7.06
300	210TC	4.50	7.19	9.06

All dimensions are in inches.

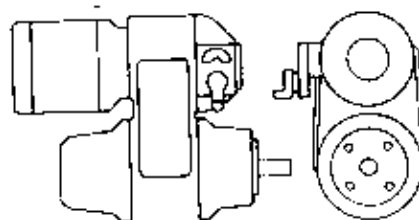
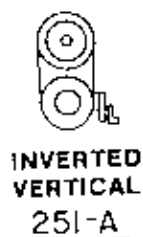
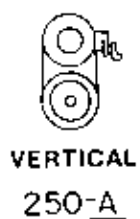
ASSEMBLIES - HORIZONTAL SHAFT TYPE

NEMA C-FACE -NO REDUCER

"C" FLOW

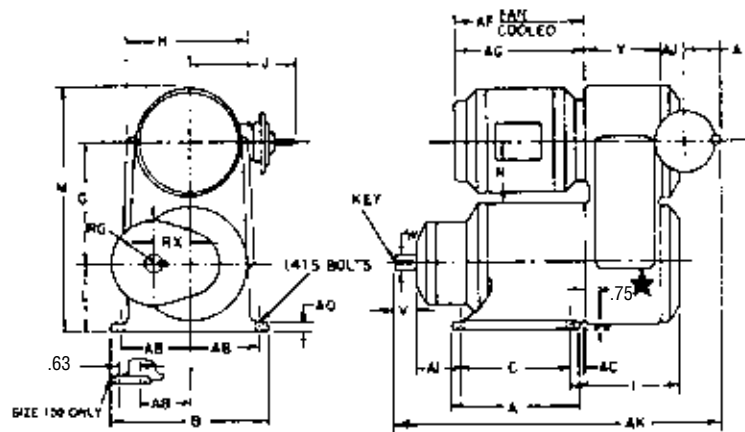


"Z" FLOW



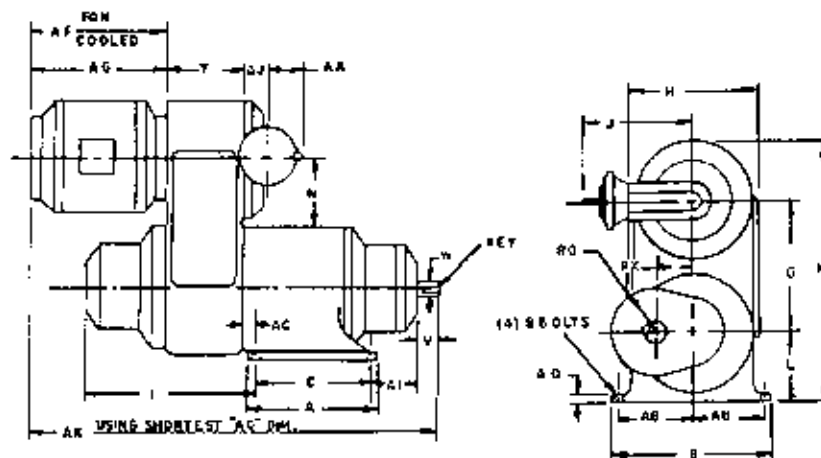
MOTODRIVE - Parallel VERTICAL SINGLE REDUCER

"C" FLOW



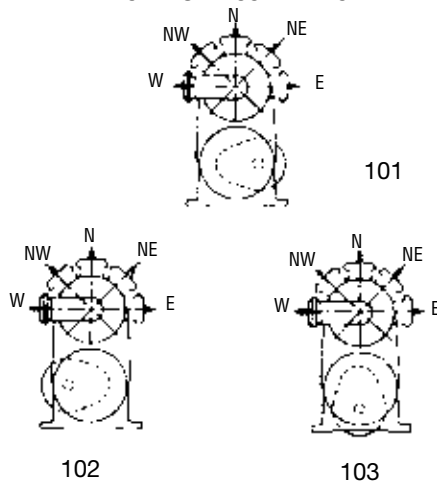
Assembly 101

"Z" FLOW

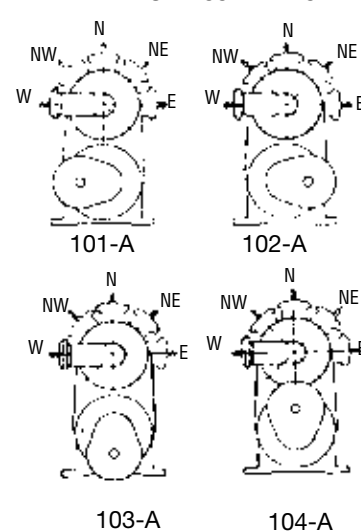


Assembly 101-A

"C" FLOW ASSEMBLIES



"Z" FLOW ASSEMBLIES



MOTODRIVE - 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/-.005" 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

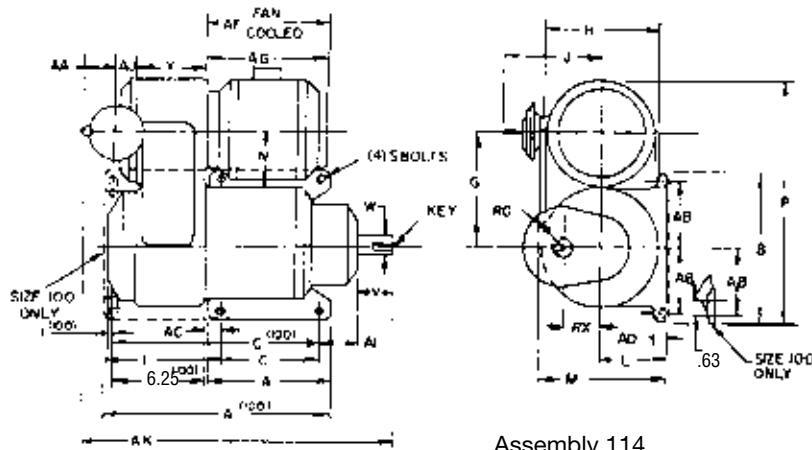
NOTE: 050 available in handwheel locations W, N, E only.

(1) 45° Assemblies available on sizes 100 thru 600K

All dimensions are in inches.

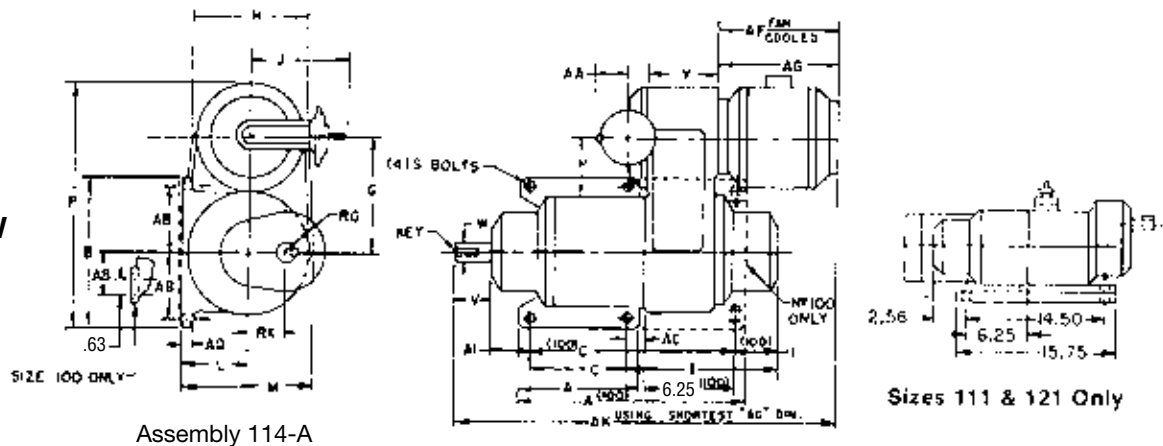
MOTODRIVE - Parallel HORIZONTAL SINGLE REDUCER

"C" FLOW



Assembly 114

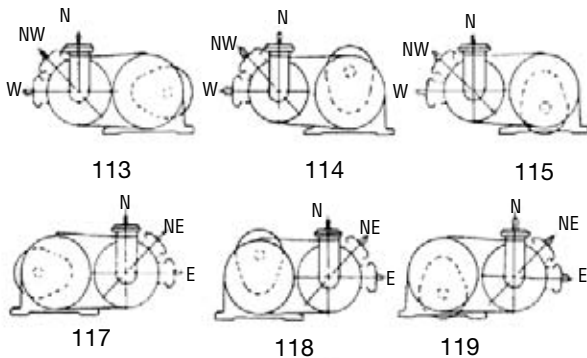
"Z" FLOW



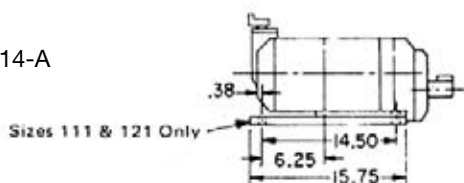
Assembly 114-A

Sizes 111 & 121 Only

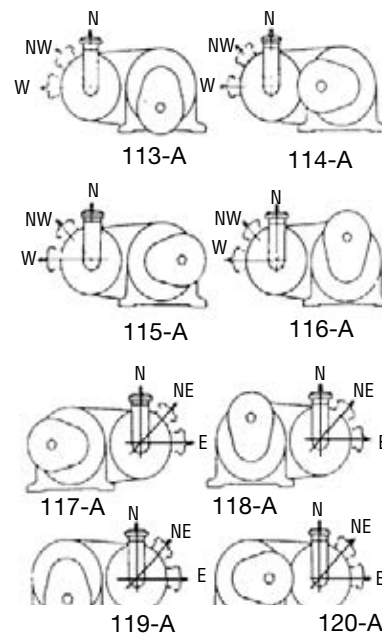
"C" FLOW ASSEMBLIES



Assembly 114-A



"Z" FLOW ASSEMBLIES



All dimensions are in inches

MOTODRIVE - Parallel

HORIZONTAL SINGLE REDUCER

"C" And "Z" Flow - Sizes 050 Thru 600K

Size	A	B	C	G	H	I	J	L	M	N
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/-.005" through 1.125" dia., +.000/-.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

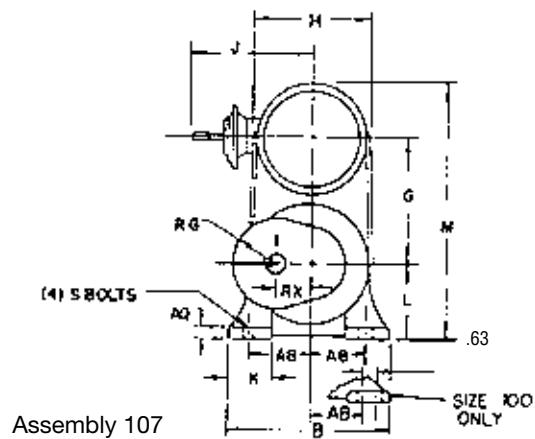
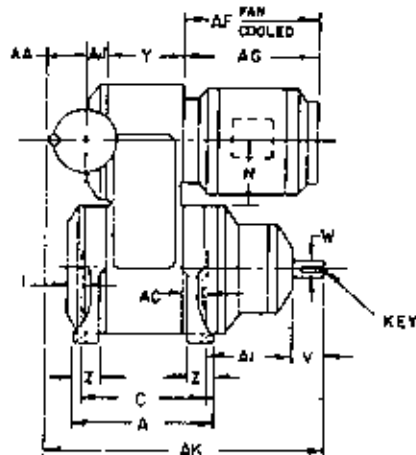
NOTE: 050 available in handwheel locations W, N, E only.

(1) 45° Assemblies available on sizes 100 thru 600K

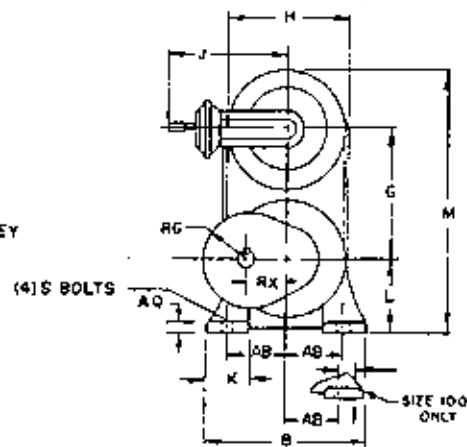
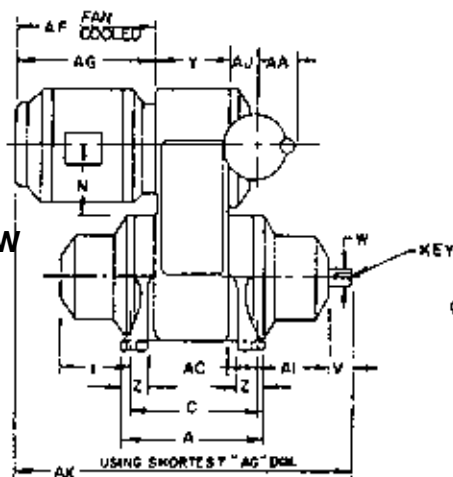
All dimensions are in inches.

MOTODRIVE - Parallel VERTICAL TRUNNION SINGLE REDUCER

"C" FLOW



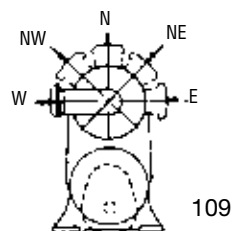
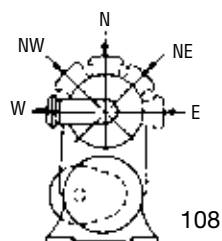
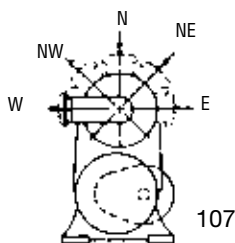
"Z" FLOW



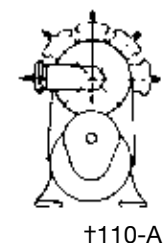
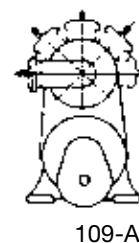
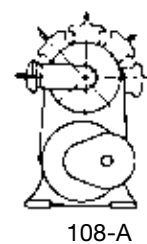
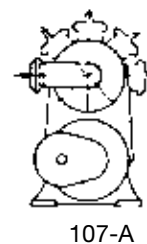
† Add 1 inch to AI and AK dimension for assembly 110-A

Assembly 107-A

"C" FLOW ASSEMBLIES



"Z" FLOW ASSEMBLIES



MOTODRIVE - 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/-.005" through 1.125" dia., +.000/-.001" others.

Size	AJ	AK	AQ	RG	RX	Key	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.

(1) 45° Assemblies available on sizes 100 thru 600K

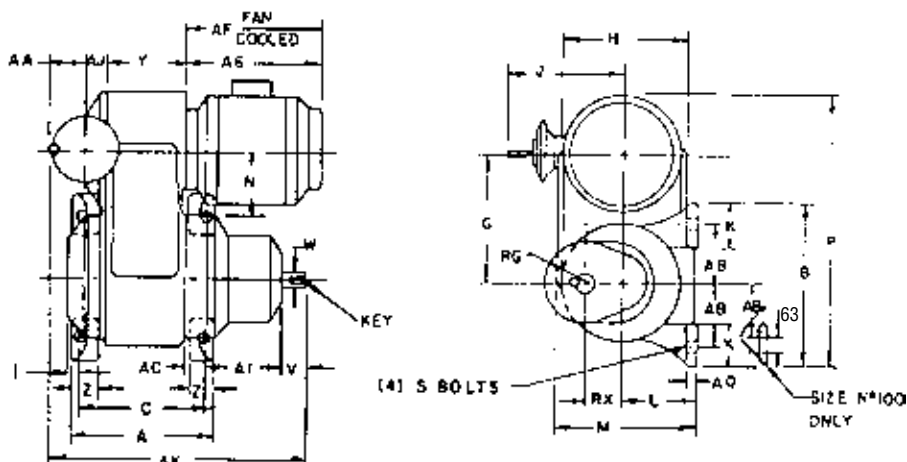
† Add 1 inch to AI and AK dimension for assemblies 128-A and 132-A

All dimensions are in inches.

MOTODRIVE - Parallel

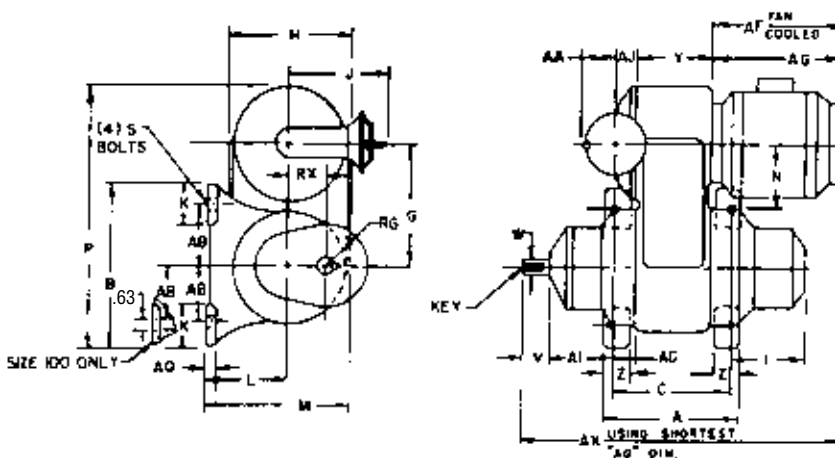
HORIZONTAL TRUNNION SINGLE REDUCER

"C" FLOW



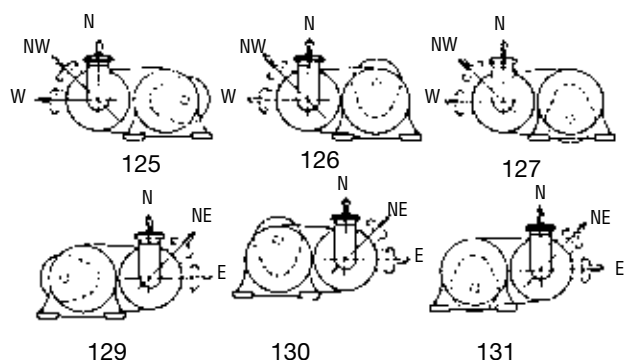
Assembly 126

"Z" FLOW

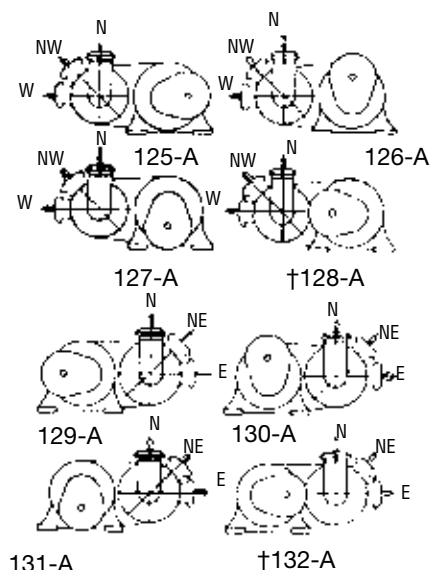


Assembly 126-A

"C" FLOW ASSEMBLIES



"Z" FLOW ASSEMBLIES



MOTODRIVE - 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		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/-.005" through 1.125" dia., +.000/-.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.

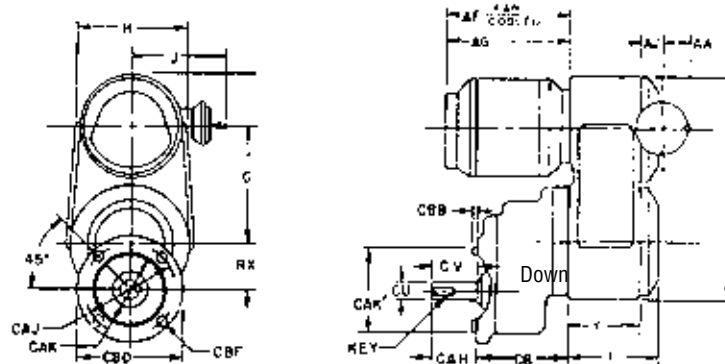
All dimensions are in inches.

MOTODRIVE - Parallel

NEMA "C" FACE

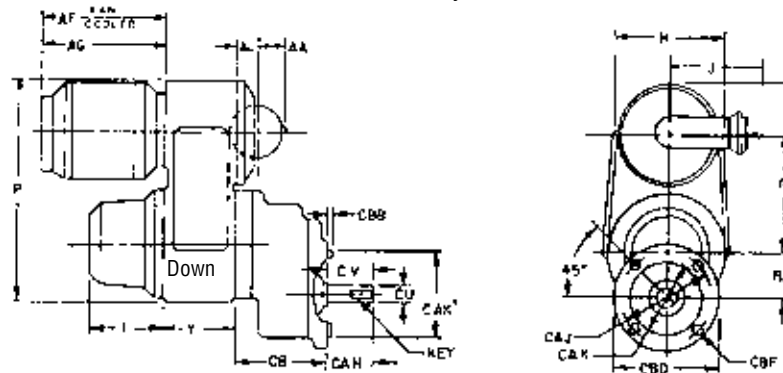
OUTPUT SHAFT DOWN - SINGLE REDUCER

"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/-.005" through 1.125" dia., +.000/-.001" others.

Size	CAH	CAJ	CAK	CAK	CBB	CBD	CBF	RX	Key	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.

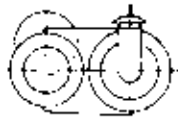
All dimensions are in inches.

MOTODRIVE - Parallel

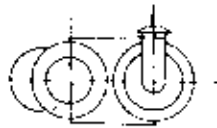
SPECIAL ASSEMBLIES

OUTPUT SHAFT DOWN TYPE - NEMA C-FACE

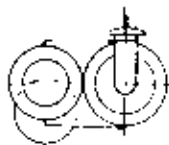
"C" FLOW



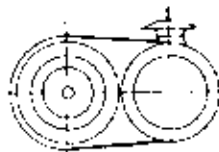
164-164E



167-167E

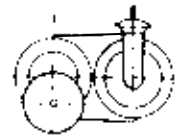


165-165E

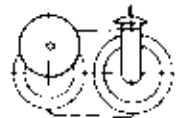


168-168E

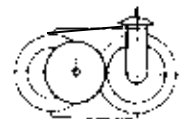
"Z" FLOW



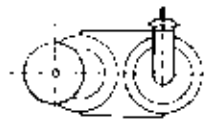
164-A



165-A



166-A



167-A

Introduction

DODGE APG

MASTER XL

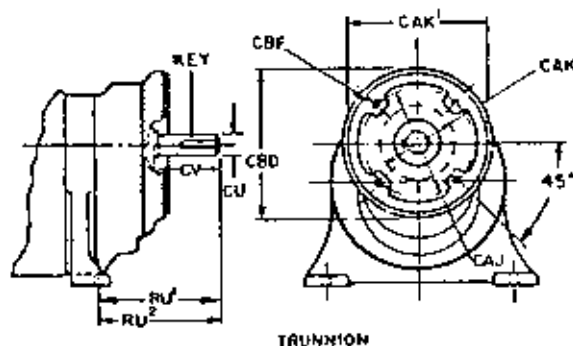
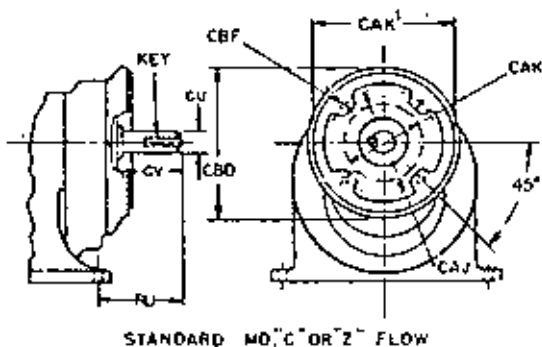
DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

MOTODRIVE - Parallel

FOOT MOUNTING MOTODRIVE 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

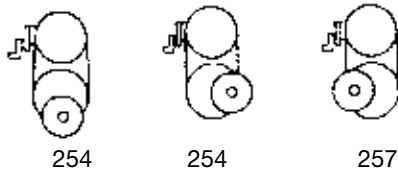
All dimensions are in inches.

See D5-45 for unlisted dimensions.

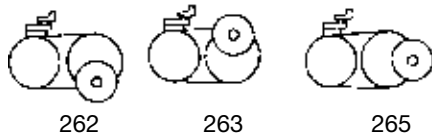
MOTODRIVE - Parallel NEMA C-FACE SINGLE REDUCER

C-FLOW

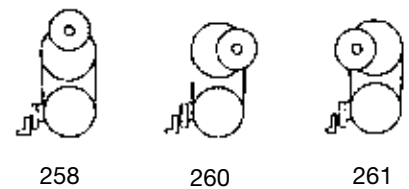
VERTICAL



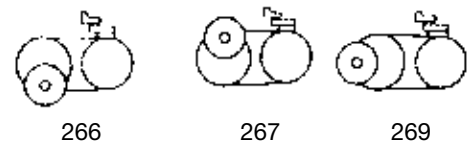
HORIZONTAL



INVERTED VERTICAL

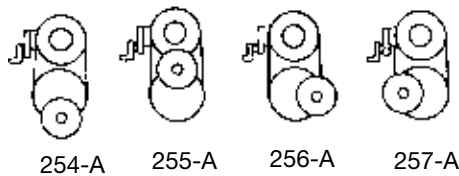


HORIZONTAL

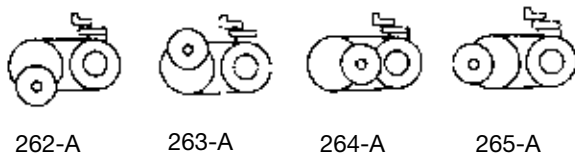


Z-FLOW

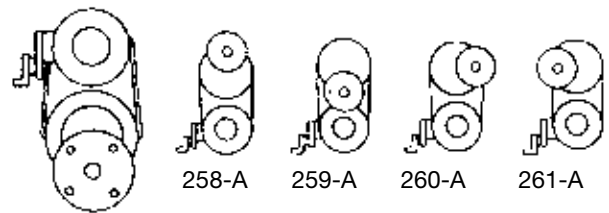
VERTICAL



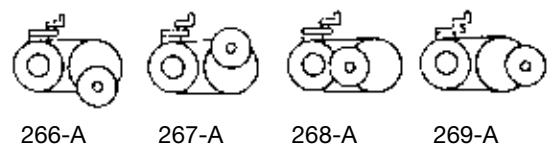
HORIZONTAL



INVERTED VERTICAL

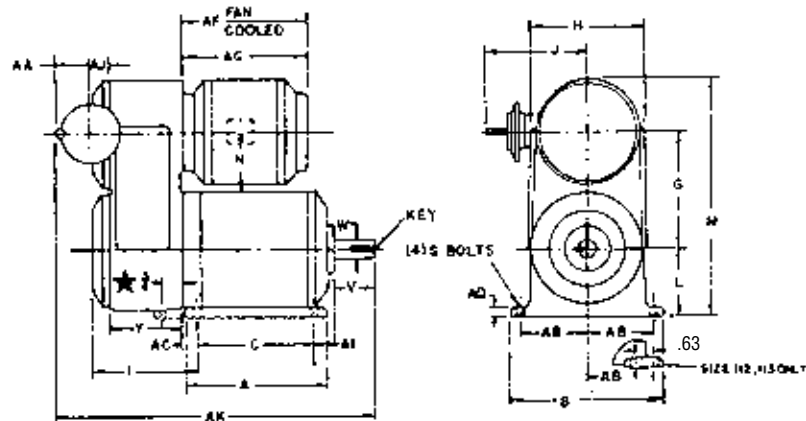


HORIZONTAL



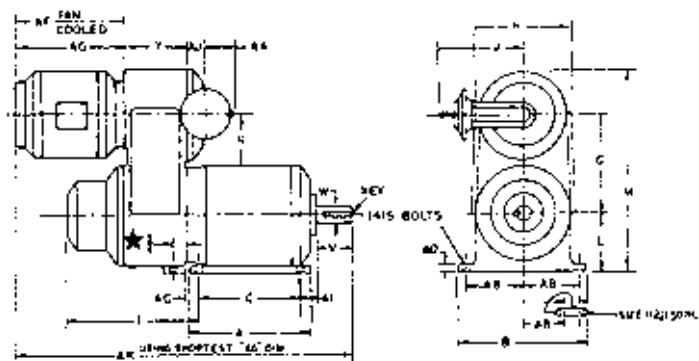
MOTODRIVE - Parallel VERTICAL DOUBLE AND TRIPLE REDUCER

"C" FLOW



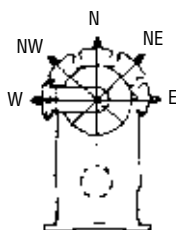
Assembly 105

"Z" FLOW



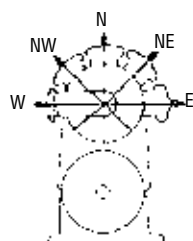
Assembly 105-A

"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, 353 and 463 requires belt case No. 2

MOTODRIVE - 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	10.50	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/-0.0005" through 1.125" dia., +.000/-0.001" 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 133, 243 and "Z" flow, see table 1, page D5-48

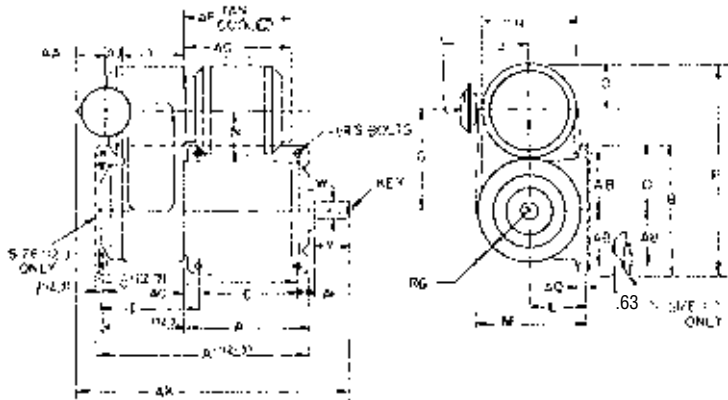
(1) 45° Assemblies available on sizes 100 thru 600K.

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

All dimensions are in inches.

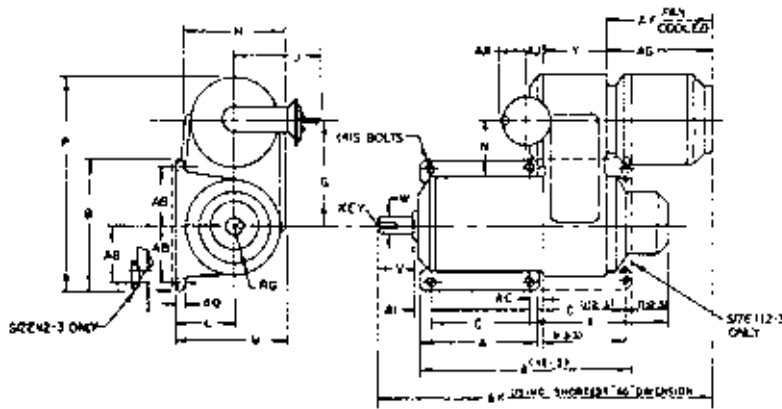
MOTODRIVE - Parallel HORIZONTAL DOUBLE AND TRIPLE REDUCER

"C" FLOW



Assembly 121

"Z" FLOW



Assembly 121-A

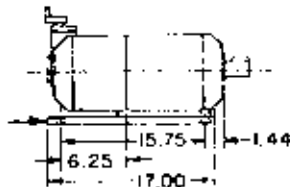
"C" FLOW ASSEMBLIES



121

122

Sizes 112 &
113 Only



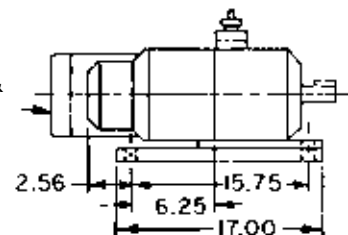
"Z" FLOW ASSEMBLIES



121-A

122-A

Sizes 112 &
113 Only



All dimensions are in inches

MOTODRIVE - 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 553, 553H	21.31	23.00	18.50	19.63	17.25	16.69	14.88	10.63	20.50	9.13
652, 652H 652K	21.31	23.00	18.50	20.75	18.50	22.19	14.88	10.63	20.94	10.25

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 553, 553H	39.31	.88	6.13	3.000	11.00	6.00	10.25	2.75	2.19	3.44
652, 652H 652K	41.00	.88	6.13	3.000	11.50	7.00	10.25	7.63(1)	2.19	4.75

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

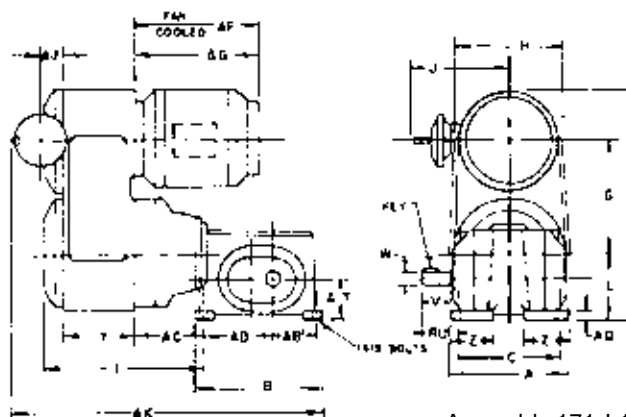
Size	AK	AQ	RG	Key	Z-Flow Only					
					G	I	M	AK	N	P
052, 053	18.00	.56	2.75	3/16 sq. X 1.38	6.50	8.13	13.13	25.69	3.75	13.19
112, 113	21.44	.50	3.38	1/4 sq. X 1.56	7.75	8.06	16.31	28.44	4.38	16.50
122, 123	27.56	.88	4.88	3/8 sq. X 2.69	7.75	10.81	19.44	34.56	2.81	20.94
133	28.75	1.25	6.50	1/2 sq. X 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 553, 553H	50.00	1.50	10.50	3/4 sq X 4.94	19.63	25.13	38.44	59.25	9.13	39.31
652, 652H 652K	57.69	1.50	10.50	3/4 sq X 4.94	20.75	27.13	40.13	60.63	10.25	41.00

(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, 453 and 563 requires beltcase No. 2: sizes 353 and 463 requires beltcase No. 3.
All dimensions are in inches.

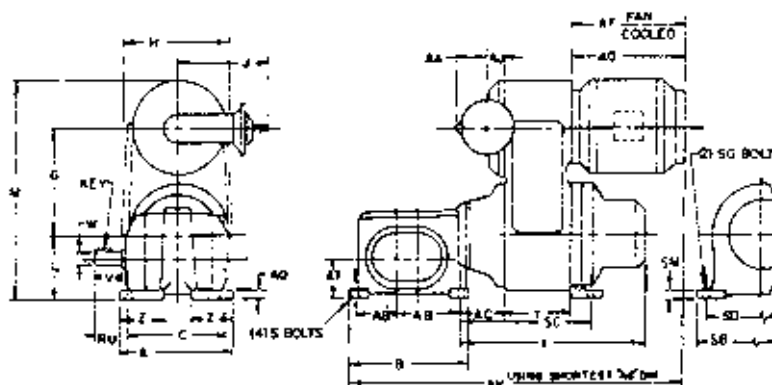
MOTODRIVE - Parallel VERTICAL RIGHT ANGLE REDUCER

"C" FLOW



Assembly 171-L1

"Z" FLOW



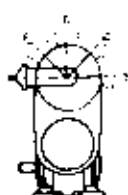
Assembly 171-A-L1

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

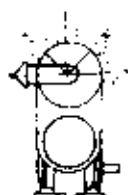
- (2) 2W21: SC = 15.63, SM = 1.13
- 2W28: SC = 16.38, SM = 2.63
- (3) 3W28: SC = 20.19, SM = 2.13

All dimensions are in inches

"C" FLOW ASSEMBLY

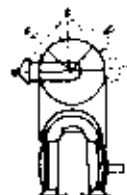


170-K1

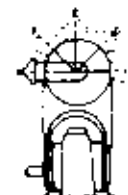


171-L1

"Z" FLOW ASSEMBLY



170-A-K1



171-A-L1

MOTODRIVE - Parallel

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	AB'	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	7.00	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

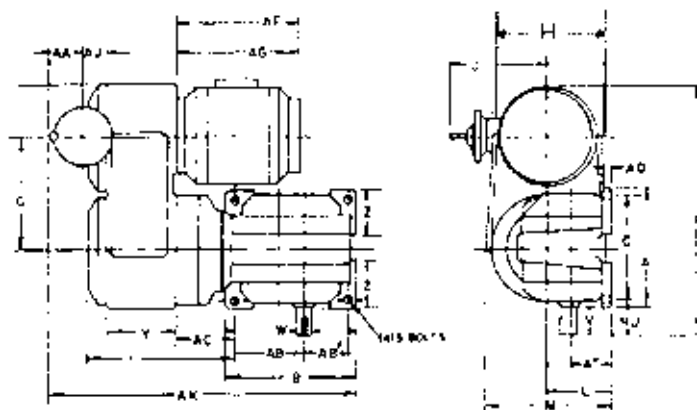
NOTE: 05W12, 05C12, 05W16 available in handwheel locations W, N, E only.

(1) 45° Assemblies available on sizes 100 thru 400.

All dimensions are in inches

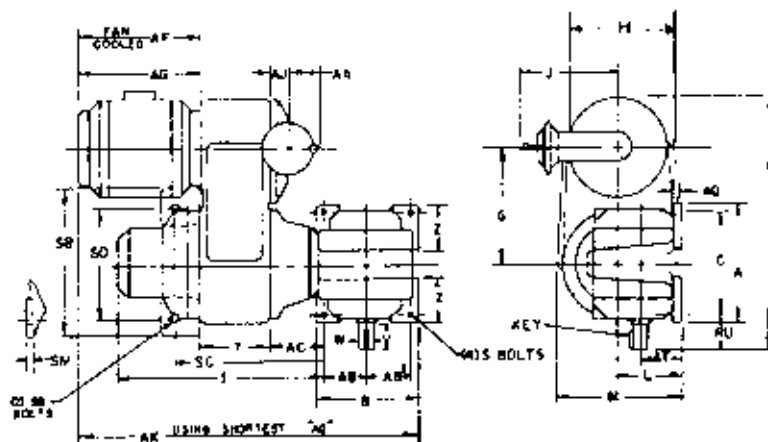
MOTODRIVE - Parallel HORIZONTAL RIGHT ANGLE REDUCER

"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)

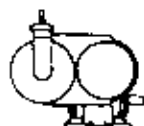
All dimensions
are in inches

(3) 2W21: SC = 15.63, SM = 1.13

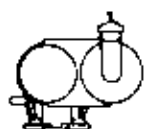
2W28: SC = 16.38, SM = 2.63

(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

MOTODRIVE - Parallel

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 ¹	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/-0.0005" 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

MOTODRIVE MODIFICATIONS

AIRTROL

The REEVES AIRTROL unit is a pneumatic shifting actuator for remote manual control and automatic process control. When used in open or closed loop control systems, the AIRTROL unit automatically and continuously corrects operating speeds of the MOTODRIVE unit to compensate for variations in materials or processes such as temperature, liquid level, pressure, weight, peripheral speed and proportional flow.

CHECK THESE FEATURES:

AIRTROL unit operates on standard 3 to 15 psi air signal from any process instrument. Exclusive "Span Adjustment" makes it possible to use the full signal... locking the 3 psi signal exactly to minimum speed and 15 psi signal exactly to maximum speed of the MOTODRIVE units. This applies to units of 2:1 speed range, as well as 10:1 (maximum) speed range.

Exclusive contoured cam design results in output speed in linear (straight line) relationship with instrument air signal over entire speed range of the drive. This cam also permits the control to be very sensitive yet stable throughout the speed range of the drive.

REEVES AIRTROL units are useable in hazardous and explosive environments by specifying the air supply solenoid shut-off valve to be explosion-proof.

An electric solenoid air valve, which is normally supplied in same voltage as the drive motor, shuts off the plant air supply of the AIRTROL unit when the MOTODRIVE unit is stopped, preventing the Airtrol from operating.

The MOTODRIVE AIRTROL package includes the AIRTROL unit itself; the electric solenoid shut-off valve; and the plant air supply line filter-regulator and gauge.

For dimensions refer to page D5-59.

ULTIMA RETROFIT KITS

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

The kit replaces a MOTODRIVE 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 MOTODRIVE unit can continue to be used.

These retrofit kits are only available for and usable on a standard C-flow MOTODRIVE 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 MOTODRIVE 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	7005367
200, 221, 222, 223, 231, 232, 233 MD	7005374
200 W/XL 21, 28, 40	7005374
300, 331, 332, 333, 341, 342, 343 MD	7005381
300 W/XL 21, 28, 40	7005381

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 MOTODRIVE belt absorbs the motor inertia only. DODGE D-Series brakes will be used where ever possible.

Available Enclosures: Standard
Dust-Tight, Water Tight
E-Z Kleen
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.

For dimensions refer to pages D5-60 - D5-61.

MOTODRIVE MODIFICATIONS

CHROMALIFE® DISCS

Chromalife is a hard chromium plating applied to the disc faces of the MOTODRIVE 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 MOTODRIVE 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. For dimensions refer to pages D5-62 - D5-64.

E-Z KLEEN) PACKAGE

(Available for sizes 050-200 only)

This option includes a Reliance 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. For dimensions refer to page D5-65.

MECHANICAL AUTOMATIC CONTROL

The MAC is a lever-type shifter designed to be connected either directly or by cable to follower rolls, pneumatic or steam actuated regulators, etc. A breakover mechanism protects the control against shock. Available for sizes 100 and 200 only. For dimensions see page D5-66.

MOTODRIVE MODIFICATIONS

MOTOR OPTIONS

A variety of Reliance C-face motors are available off the shelf for use on

MOTODRIVE 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 MOTODRIVE 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. A digital readout indicator is included with a choice of a battery powered LCD display, or a 115 Volt AC

powered LED display. Both displays are 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.

For dimensions refer to page D5-69.

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.

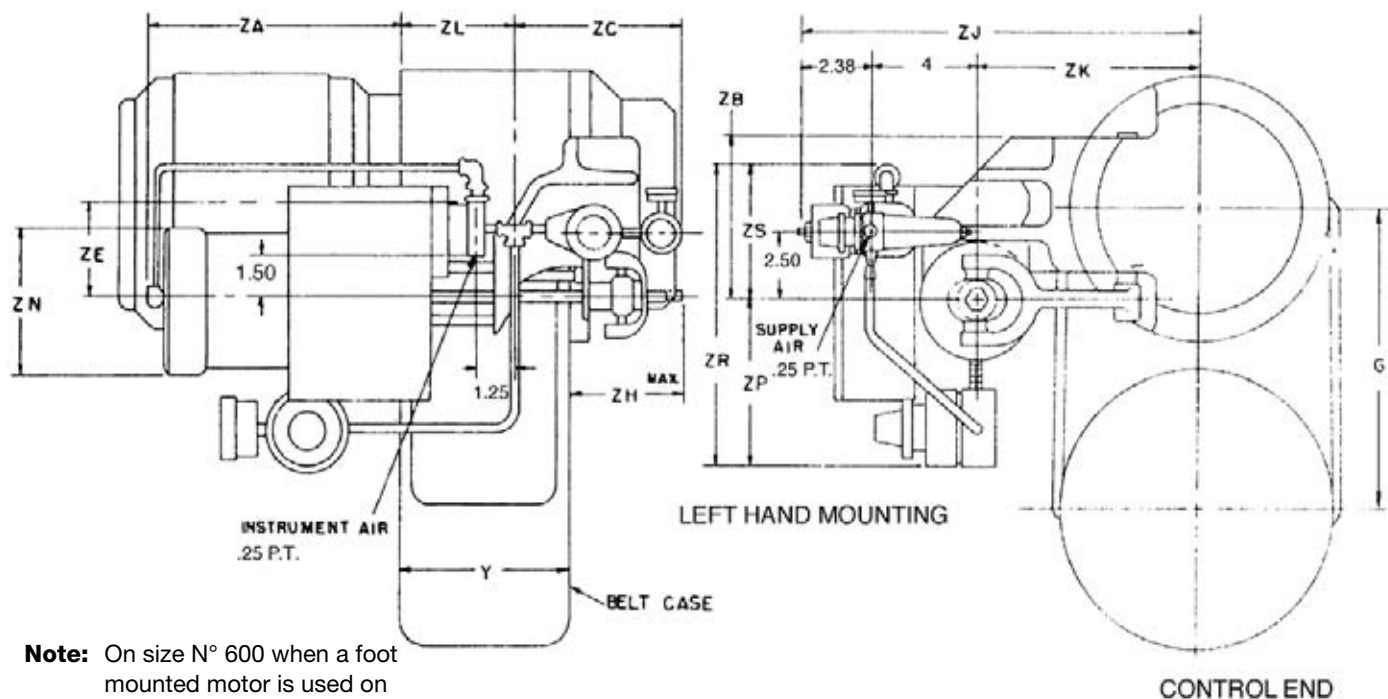
XT-EXTRA TOUGH PACKAGE

For sizes 300-600, this option includes a Reliance 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.

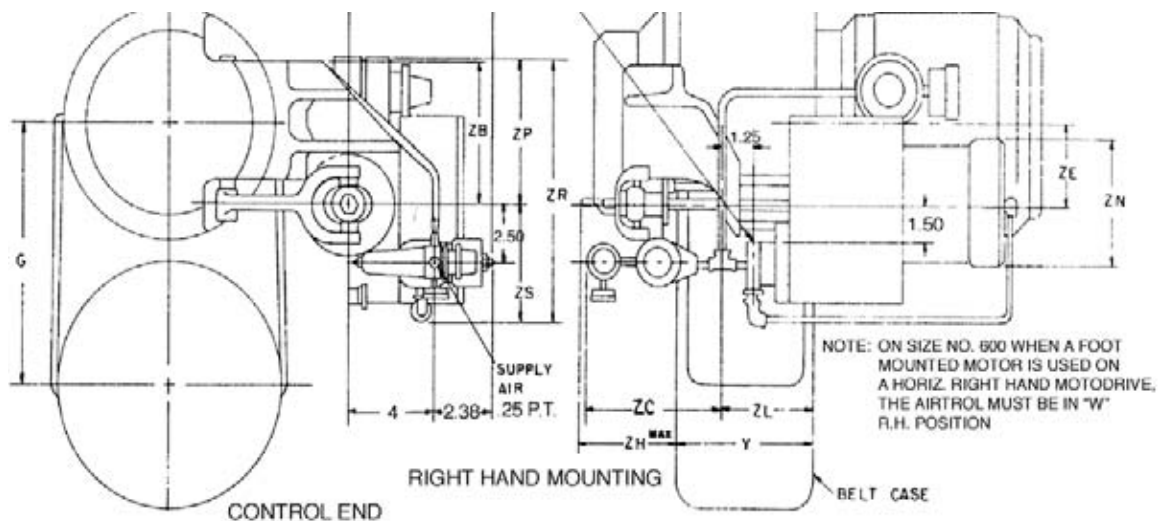
MOTODRIVE - Options

AIRTROL®



Note: On size N° 600 when a foot mounted motor is used on a horiz. right hand MOTODRIVE, the AIRTROL must be in "E" L.H. position

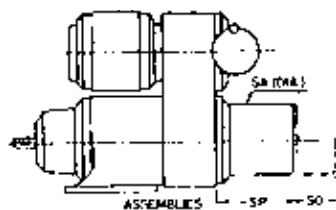
Unit	ZA	ZB	ZC	ZE	ZH	ZJ	ZK	ZL	ZN	ZP	ZR	ZS	"G" Dim. When Using Belt Case No.			
													Y	1	2	3
100	11.50	5.50	6.75	3.19	4.06	13.38	7.00	3.13	5.13	4.75	10.13	5.38	5.25	7.75	10.50	-
200	10.38	5.50	6.75	3.19	4.50	14.25	7.88	4.31	5.13	4.75	10.13	5.38	6.25	9.88	11.50	13.00
300	8.88	5.50	6.75	3.19	4.63	15.00	8.63	5.81	5.13	4.75	10.13	5.38	7.75	12.38	13.75	16.25
400	11.50	7.13	6.75	4.13	5.38	17.00	10.63	6.94	7.00	5.88	11.50	5.38	9.25	15.25	17.75	20.13
500	9.81	8.50	6.75	4.88	5.75	19.13	12.75	8.63	7.00	5.88	11.50	5.38	11.00	19.63	22.13	-
600	7.94	8.50	6.75	4.88	7.25	19.13	12.75	10.44	7.00	5.88	11.50	5.38	11.50	20.75	23.50	-



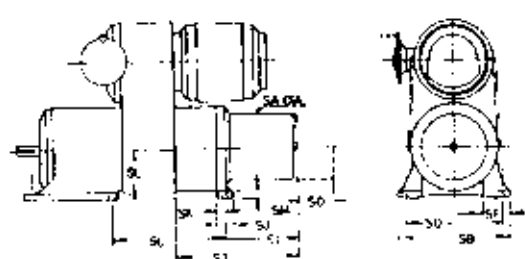
MOTODRIVE - Options

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

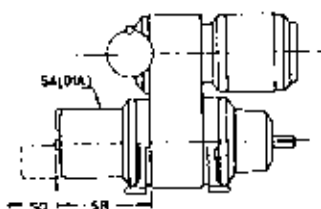
Control Side
"C" Flow



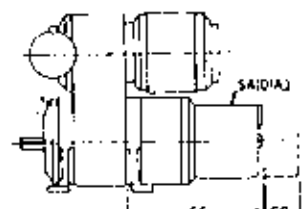
Motor Side
"Z" Flow



Control Side
"C" Flow - Trunnion



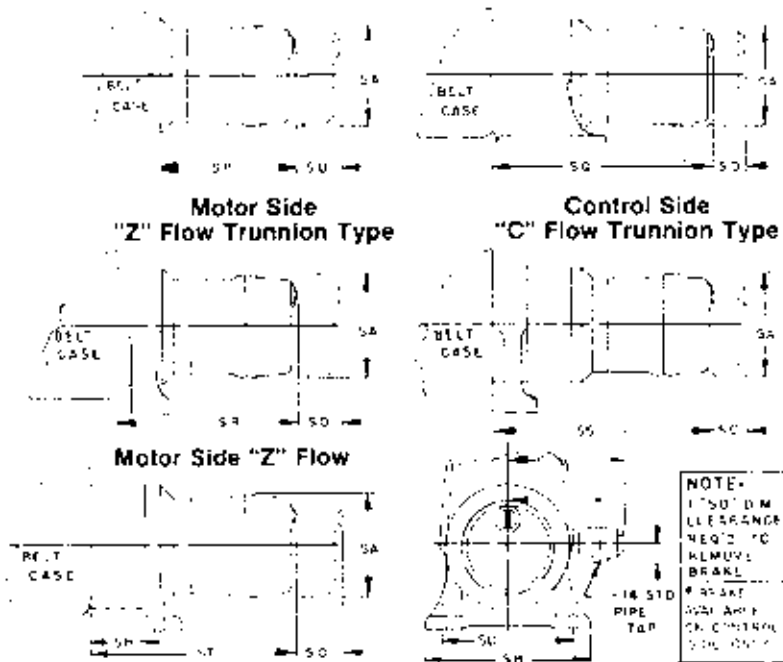
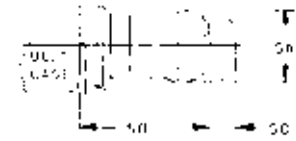
Motor Side
"Z" Flow - Trunnion



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								

MOTODRIVE - Options

BRAKE LOCATION - Size 200 - 600 MOTODRIVES
Control Side "C" Flow Motor Side "Z" FlowBRAKE LOCATION -
Size 100 MOTODRIVESControl Side
"C" Flow Trunnion Type

Control Side "C" Flow

EXPLOSION PROOF BRAKES
CLASS I GROUP C & D

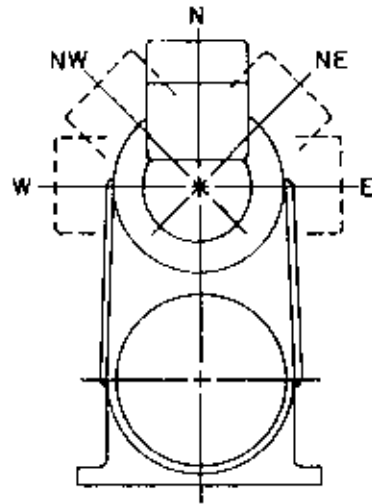
Units	100				200		300			400			500		600
Lb/Ft.	3	6	9	10	10	25	10	25	50	25	50	75	50	75	75
Brake	52A	54	56	56	72	72B	72	72B	74	72B	74	76	74	76	76
SA	7.13				9.25		9.25			9.25			9.25		9.25
SB	-				13.00		15.25			18.88			23.00		23.50
SD	-				11.38		13.88			16.75			20.50		17.75
SH	-				5.56		6.94			8.75			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

MOTODRIVE - Control Position Options

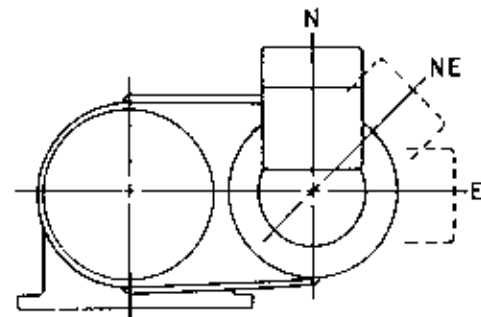
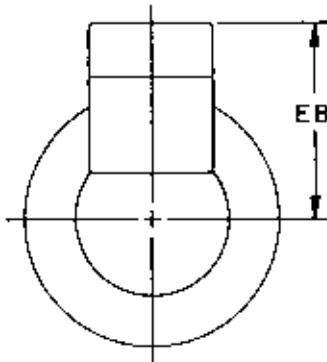
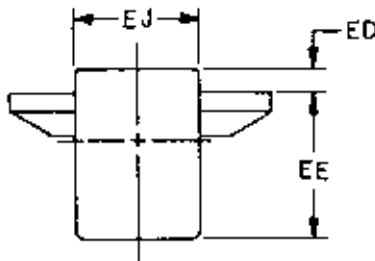
STANDARD POSITIONS AND DIMENSIONS OF HEAVY DUTY ERC 050 - 300



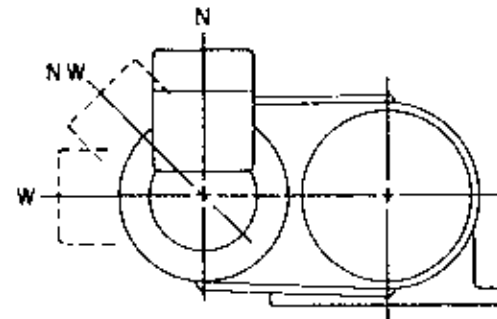
ERC will be furnished in standard position (N) unless otherwise specified.

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

Vertical "C" and "Z" Flow



Horizontal "C" and "Z" Flow



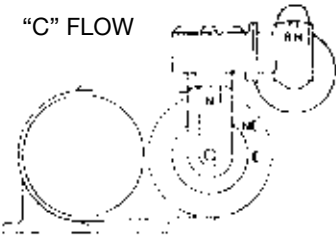
Horizontal "C" and "Z" Flow

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

MOTODRIVE - Control Position Options**STANDARD POSITIONS AND DIMENSIONS OF HEAVY DUTY ERC 400 - 600**

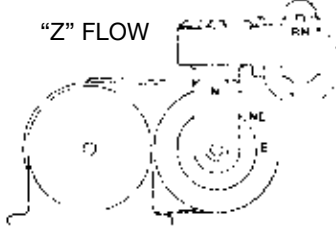
LH HORIZONTAL UNITS - POSITION N-RH STANDARD
OPTIONAL POSITIONS: NE-RH & E-LH

"C" FLOW



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

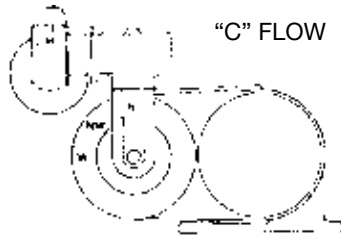
"Z" FLOW



ASSEMBLIES:
112-EA, 117-A, 118-A, 112-A, 125-A, 129-A
130-A, 131-A, 132-A

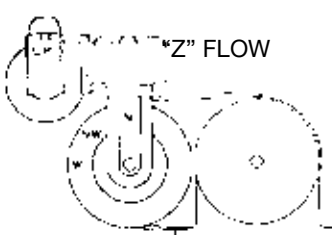
RH HORIZONTAL UNITS - POSITION N-LH STANDARD
OPTIONAL POSITIONS: NE-LH & W-RH

"C" FLOW



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

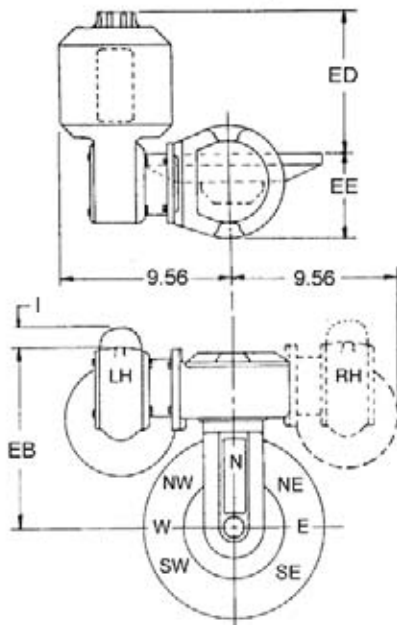
"Z" FLOW



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

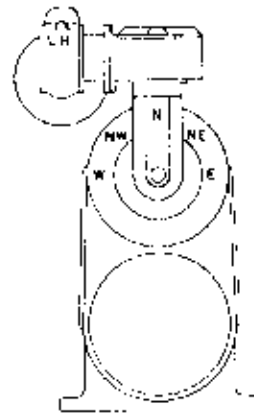
Size	EB	EE	ED
400	12.38	5.19	8.69
500	13.63	6.25	7.69
600	16.13	7.50	6.38

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



VERTICAL "C" FLOW UNITS
N-LH STANDARD POSITION
OPTIONAL POSITIONS:

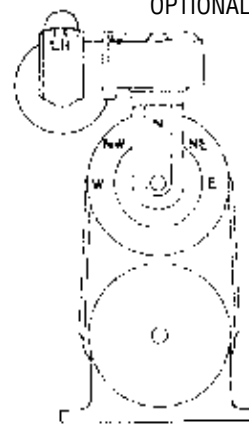
NW - LH
E - LH
N - RH
NE - RH
W - RH



ASSEMBLIES:
100, 1100-A, 101,
102, 103, 105, 106,
107, 108, 109

VERTICAL "Z" FLOW UNITS
N-LH STANDARD POSITION
OPTIONAL POSITIONS:

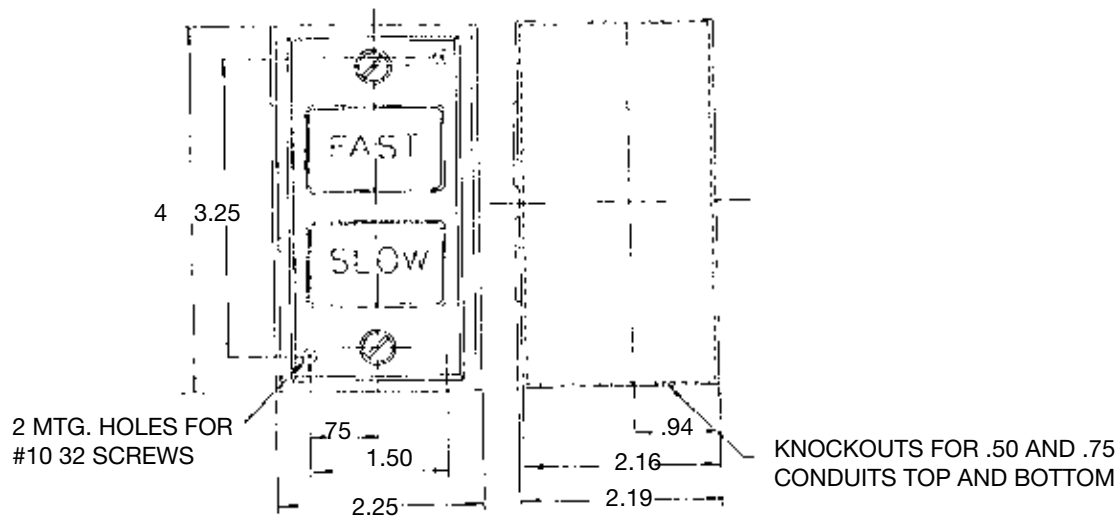
NW - LH
E - LH
N - RH
NE - RH
W - RH



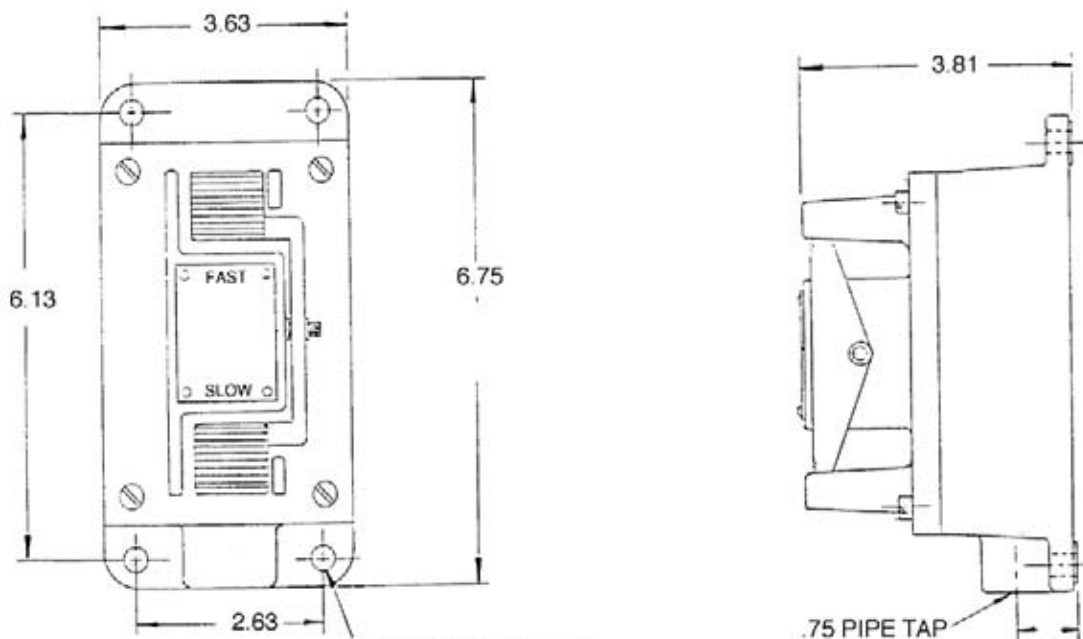
ASSEMBLIES:
100-EA, 101-A, 102-A, 103-A,
105-A, 106-A, 107-A, 108-A,
109-A, 110-A

MOTODRIVE - Options

STANDARD NEMA-1 E.R.C. PUSHBUTTON



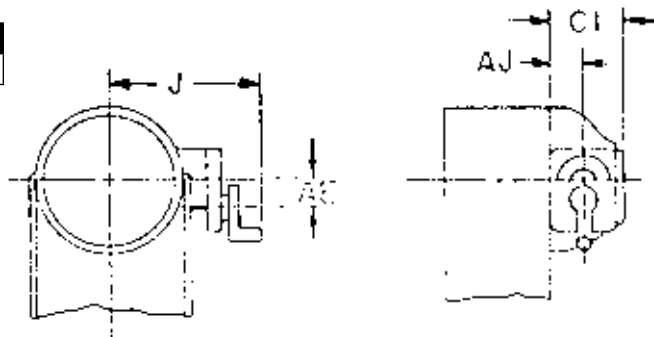
NEMA - 7-9 E.R.C. EXPLOSION-PROOF PUSH BUTTON



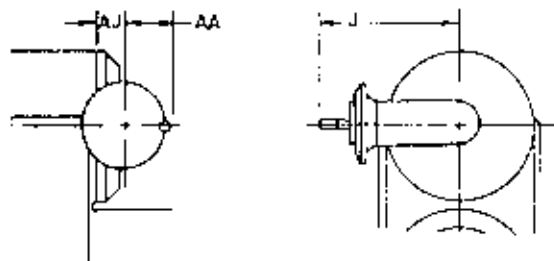
MOTODRIVE - Options**STANDARD NEMA-1 E.R.C. PUSHBUTTON****SIZE 050**

Size	J	AJ	CI	AE
050	5.56	.80	2.38	1.31

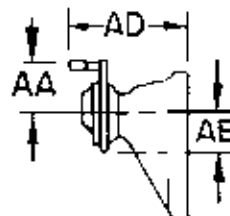
NOTE: SIZE NO. 050 AVAILABLE IN POSITIONS "N", "E",
"W" ONLY

**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**

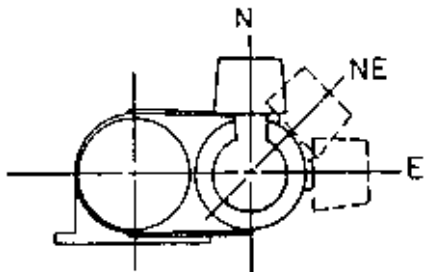
Size	AA	AD	AE
050	1.31	3.69	.81
100	2.00	5.38	1.19
200	3.13	6.75	1.44
300	4.19	8.50	1.94



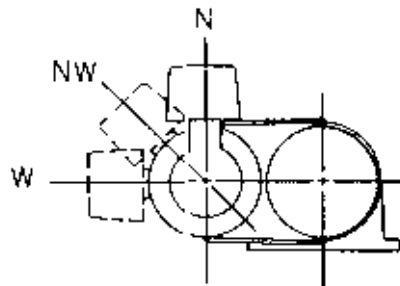
MOTODRIVE - Control Position Options

STANDARD POSITIONS AND DIMENSIONS FOR RAC SERVOMOTOR, SIZES 100 - 300

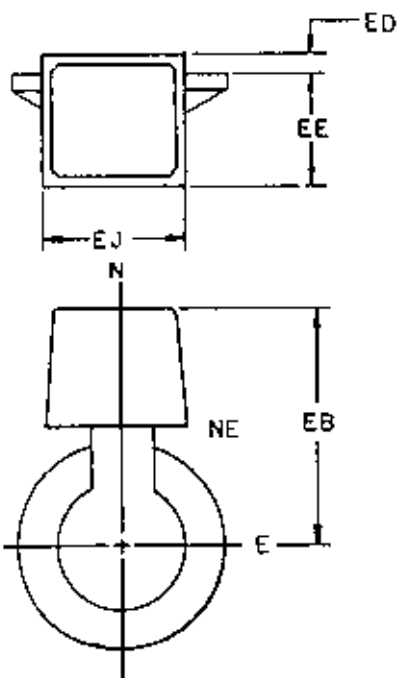
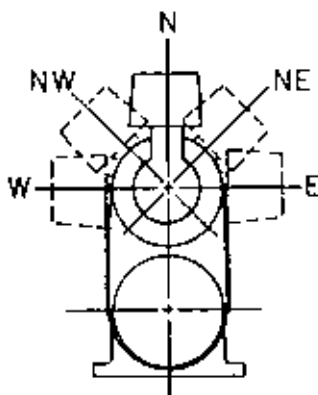
LEFT HAND HORIZONTAL "C" & "Z" FLOW UNITS



RIGHT HAND HORIZONTAL "C" & "Z" FLOW UNITS



VERTICAL "C" & "Z" FLOW UNITS

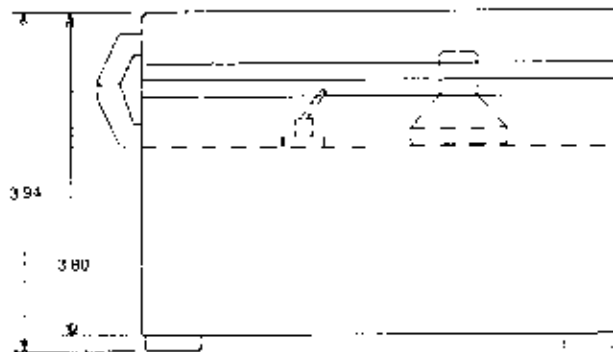
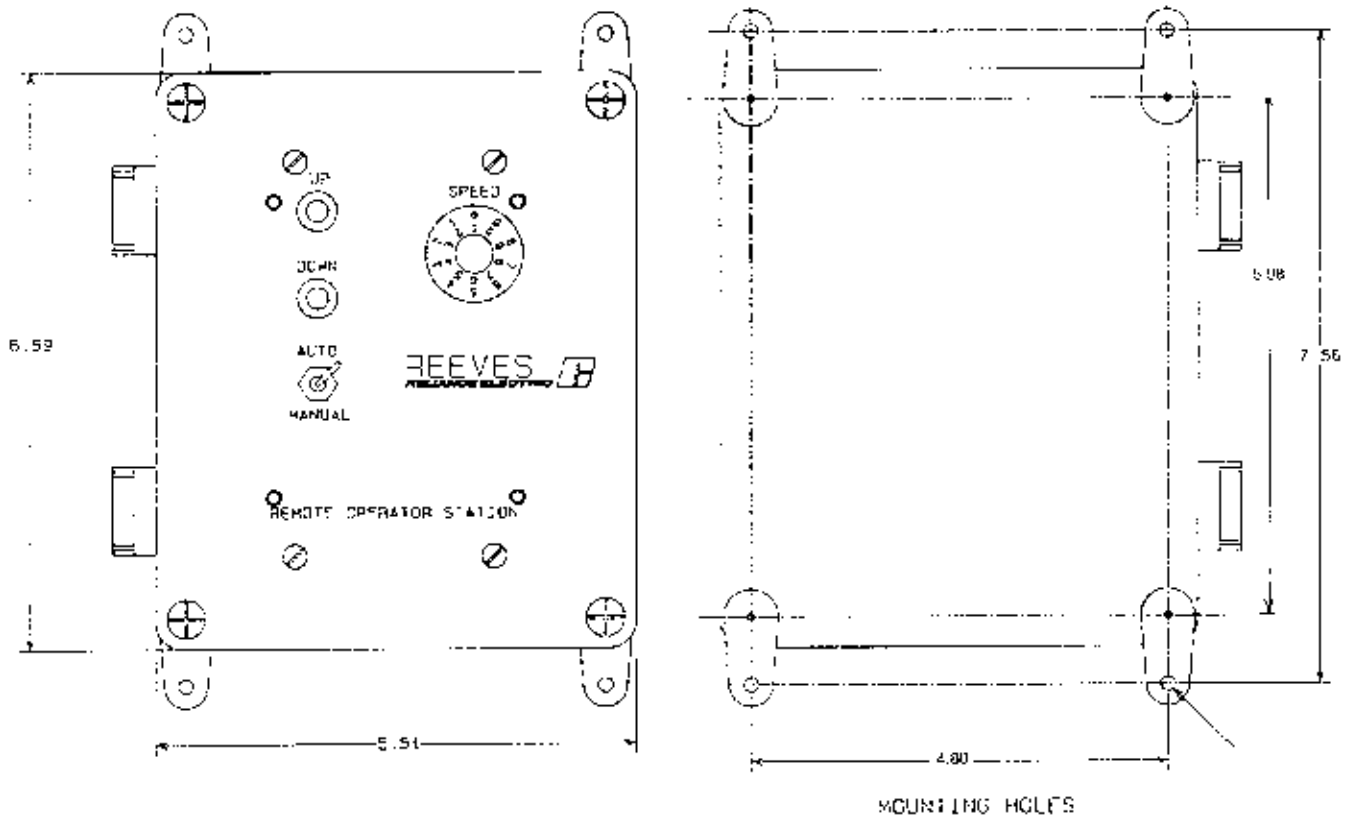


RAC WILL BE FURNISHED
IN STANDARD POSITION
(N) UNLESS OTHERWISE
SPECIFIED

RAC

Size	EB	ED	EE	EJ
100	9.50	.78	5.47	6.25
200	10.00	.62	5.62	6.25
300	14.88	1.12	5.88	7.00

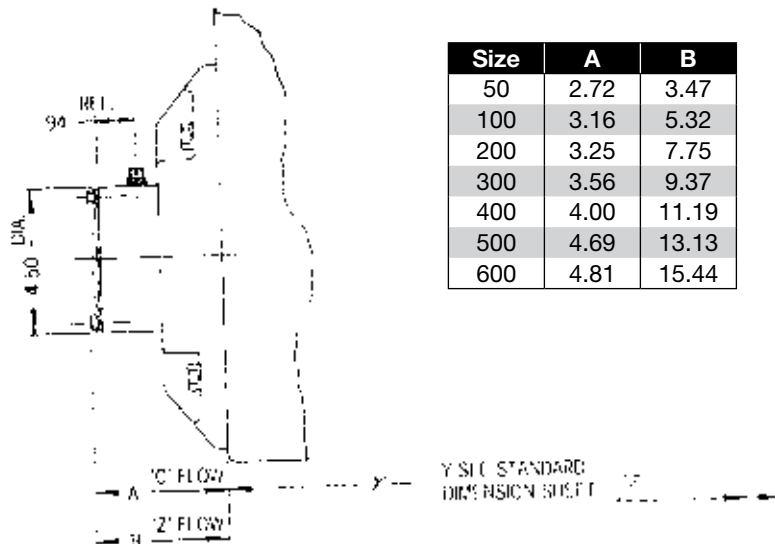
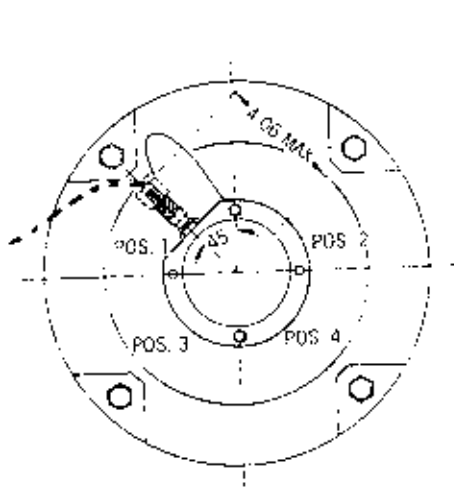
MOTODRIVE - Options RAC CONTROL HEAD ASSEMBLY



MOTODRIVE - Options

DIGITAL TACHOMETER PICKUP

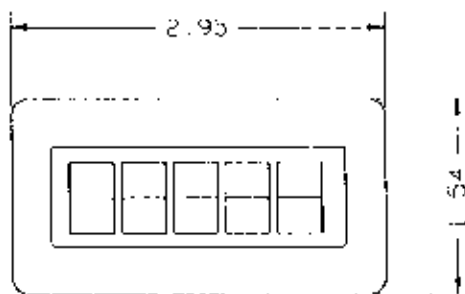
FOR NO. 050 - 600 MOTODRIVE



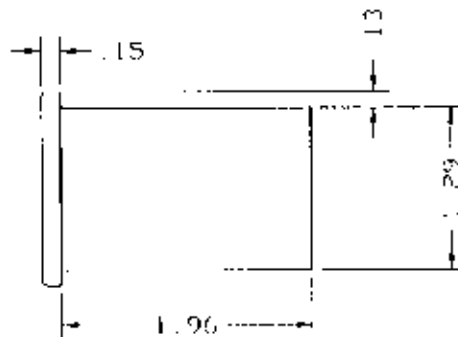
Size	A	B
50	2.72	3.47
100	3.16	5.32
200	3.25	7.75
300	3.56	9.37
400	4.00	11.19
500	4.69	13.13
600	4.81	15.44

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

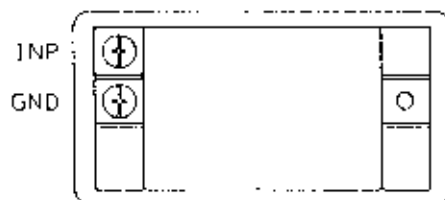
LCD DIGITAL TACHOMETER INDICATOR



Front



Side



Rear

MOTODRIVE

**ERC SHIFTING TIMES (APPROX.)
050 - 600K MOTODRIVE 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 RAC	11.0	17.0	21.0	24.0	30.0
		28.5	36.5	40.0	42.6	47.0
200	Heavy/Auto Duty RAC	11.0	17.0	22.5	27.5	40.0
		26.5	34.5	38.0	40.5	45.0
300	Heavy/Auto Duty RAC	12.0	19.0	24.0	29.0	42.0
		18.0	24.0	28.0	31.0	37.0
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 MOTODRIVE 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
100-200	115	1	60	0.25	605036-03-J	TENV	100.00%	RAC 702805-12-E	D72000-03C	Built-In Brake and Thermal
300	115	1	60	0.17	605036-03-K	TENV	100.00%	RAC 702805-12-F	D72000-03C	Built-In Brake and Thermal

MOTODRIVE HORSEPOWER RATINGS

PARALLEL SHAFT UNITS

REEVES VARI-SPEED MOTODRIVE 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 in the input of the MOTODRIVE belt case.

The MOTODRIVE 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 MOTODRIVE 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 MOTODRIVES with right angle reducers, refer to the Selection tables.

INTERMEDIATE SPEED

Most REEVES MOTODRIVES 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 MOTODRIVE 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 MOTODRIVE is capable of delivering constant torque over its entire speed range, as determined by the following formula:

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

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 MOTODRIVE 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 "MOTODRIVE Performing Rating Curves."

MOTODRIVE OVERHUNG LOAD CAPACITIES

LUBRICATION

Refer to Instruction manual.

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 MOTODRIVE and reducer from tables below.

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

Max. Output Speed rpm	Motodrive 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

MOTODRIVE**OVERHUNG LOAD CAPACITIES****RIGHT ANGLE REDUCERS - W12, W16, W21, W28⁽¹⁾**

Output Speed rpm (Max.)	W12		W12					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.

MOTODRIVE

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	...	1245	1230	...	1475	1440	1400
1750	100	100	160	155	145	...	305	295	...	575	560	...	805	790	...	1325	1300	...	1575	1520	1490
1430	110	105	165	160	155	...	325	315	...	575	560	...	855	833	...	1410	1370	...	1670	1620	1570
1170	115	110	180	175	165	...	345	335	...	650	625	...	910	883	...	1490	1440	...	1770	1705	1650
950	125	120	190	185	170	375	370	350	...	690	660	...	965	930	...	1580	1530	...	1880	1795	1760
780	130	125	200	195	180	400	390	375	...	730	690	1050	1020	1000	...	1670	1610	...	1980	1890	1815
640	140	130	210	205	190	425	415	390	...	770	730	1110	1075	1030	...	1760	1690	...	2090	1980	1900
520	150	140	225	215	...	450	435	410	...	815	765	1175	1130	1090	...	1860	1760	...	2205	2075	1950
420	160	145	235	225	...	475	460	430	...	860	...	1240	1190	...	2045	1955	1830	...	2315	2165	...
350	170	155	245	235	....	500	485	...	955	895	...	1300	1240	...	2140	2040	...	2490	2400	...	...
280	180	160	260	245	...	530	510	...	005	930	...	1370	1295	...	2260	2140	...	2605	...	...	...
230	190	...	...	...	...	...	...	...	...	...	...	...	...	...	2360	...	...	...	...	...	...

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

Maximum 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	...	...	...	...	...	...	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	...	...	...
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
125	645	620	...	...	...	...	...	...
100	690	660	...	...	...	1390	1265	1140
84	730	690	...	...	530	1445	1290	1140
68	775	725	620	585	550	1515	1310	1125
56	880	760	655	615	...	1565	1565	1350
45	875	745	700	650	580	1610	1340	...
37	920	685	740	680	...	1590	1230	...
30	970	580	785	705	...	1685	...	...
25	1010	...	825	...	...	1680	...	...
20	...	...	830	...	...	...	...	2930
16.5	...	...	915	...	...	...	...	3090
13.5	...	...	960	...	...	...	...	3260
								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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

MOTODRIVE**WIRING DIAGRAMS****ELECTRIC REMOTE CONTROLS**

For Sizes 050 - 300 MOTODRIVES 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
REEVES Automatic Controller (RAC) wiring	
100-200 MOTODRIVE	D72000-03-AF
300 MOTODRIVE	D72000-03-AG

For Sizes 400-600K MOTODRIVES with 115 VAC 1 PH

Heavy Duty ERC with Master Gearmotor:

Standard Pushbutton	D42000-07-C
Standard Pushbutton with Transformer	D42000-07-D
Standard Pushbutton with Brake on Gearmotor	D42000-07-E
Standard Pushbutton with Rotary Limit Switch	D42000-07-F
Standard Pushbutton with 2-Speed Drive Motor	D42000-07-N

For Sizes 400-600K MOTODRIVES 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
RAC Wiring (Ball Screw Actuator)	D72000-03-AH

MISCELLANEOUS

AIRTROL Supply Air Solenoid Valves	D42000-25-C
AIRTROL Return to Low Speed before Stop	D62000-14-A
RAC AIRTROL Wiring (all Sizes)	D42000-45-C
LED Digital Tachometer Model DM4000	D62000-02-K
LED Digital Tachometer; Multiple Indicators	D62000-02-L
LCD Digital Tachometer	D62000-02-M
ULTIMA RAC Wiring	D72000-03-AM

OTHER

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

100 MOTODRIVE	2-57189
200 MOTODRIVE	2-59779

MOTODRIVE

TEMPERATURE LIMITS

Max. Ambient for Standard Ventilated MOTODRIVES	130° F
Max. Ambient for XT MOTODRIVES	115° F
Min. Ambient for Belt Operation	-20° F
Min. Ambient for Reducer, with Oils Listed in Maintenance Manual	0° F
(For Lower Temperature Consult Application Engineering)	
Min. Ambient for Standard Grease Packed Bearings	-15° F
(For Lower Temperature Consult Application Engineering)	
Min. Ambient for Standard Grease Lubricated Discs	-5° F
(For Lower Temperature Consult Application Engineering)	
Max. Ambient Storage Temperature (Not Running)	175° F
Extended storage above 1205F will result in belt deterioration	
Min. Ambient Storage Temperature (Not Running)	-65° F

NOTE: Refer to Motor Section for Motor Ambient Temperatures.

INSTALLATION

MOTODRIVE units with Right Angle reducers ship installation-ready with gear units factory filled with lubricant. MOTODRIVE units with Parallel reducers are shipped without lubricant. Refer to the instruction manual provided with each unit 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 MOTODRIVE 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 MOTODRIVE output cover as is possible.

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

MAINTENANCE

Reeves MOTODRIVE, 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 provided with each unit, you can assure years of dependable service from you REEVES MOTODRIVE unit. Complete maintenance instructions and MOTODRIVE warnings should be reviewed prior to installation. See manual.

ULTIMA®

Features/Benefits	D6-2
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Introduction

DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA

REEVES® ULTIMA® Drive

The Ultimate Drive In High Performance With Low Maintenance



C-FACE MOUNT



PARALLEL

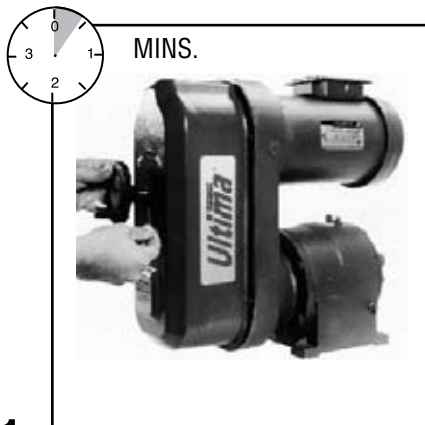


RIGHT ANGLE

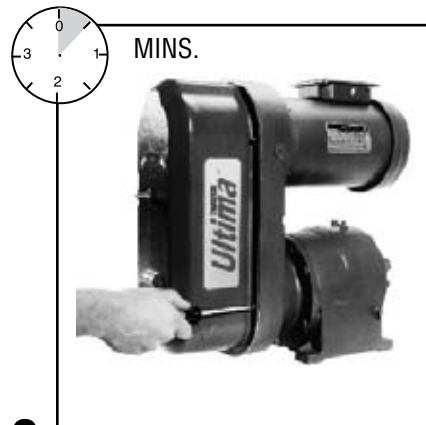
ADJUSTABLE SPEED DRIVES WITH A DIFFERENCE

- The ULTIMA drive difference for high starting torque requirements:
 - Full-locked rotor capability, combined with belt reduction, offers up to eight times the starting torque of electrical drives at low speeds.
 - Ideal for starting fully loaded pumps, mixers and conveyors without oversizing.
- The ULTIMA drive difference in motor performance, life and availability:
 - Energy-efficient RELIANCE) motors run on smooth, sine-wave power at full speed, full time.
 - Cooler motor operation from full-speed fan operation eliminates oversizing; increases motor insulation life; lowers air conditioning costs.
 - Standard off-the-shelf NEMA C-face or IEC B5 flanged motor inputs assure availability worldwide.
- The ULTIMA drive difference in adapting to its environment:
 - Slip-limited beltcase allows for momentary shocks and overloads of 250% or more.
 - Cast-iron structure survives damp or corrosive environments.
 - Cost effective for explosion-proof and E-Z Kleen applications.
- The ULTIMA drive difference in durability and ease of maintenance:
 - Cast-iron gearcase and beltcase support components, stainless-steel shifting screws, steel shifting nut with bronze insert and cast-iron lever arm for corrosion resistance and long life.
 - Squeeze-locking input collar design allows easy motor replacement.
 - Quick-change, no-lube bushing design permits quick replacement for optimum disc life.
 - Corrosion-resistant, chrome-plated shafts extend no-lube bushing life.
 - Collar speed stops for quick, simple adjustment.

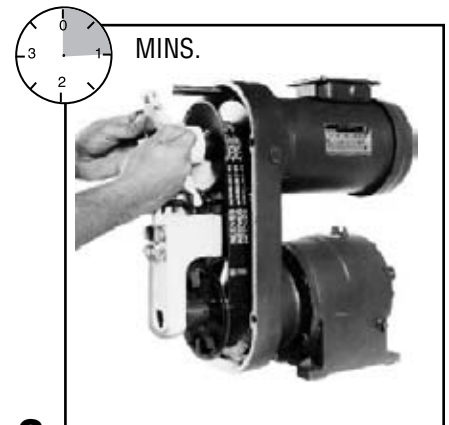
ULTIMA Drive's Friendly Design Cuts Scheduled Maintenance to Minutes Per Year



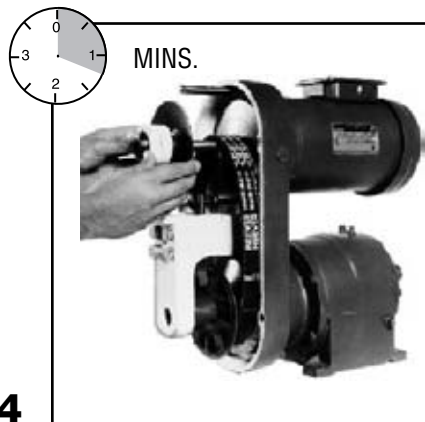
- 1** Pull pin on handwheel.
Remove handwheel.



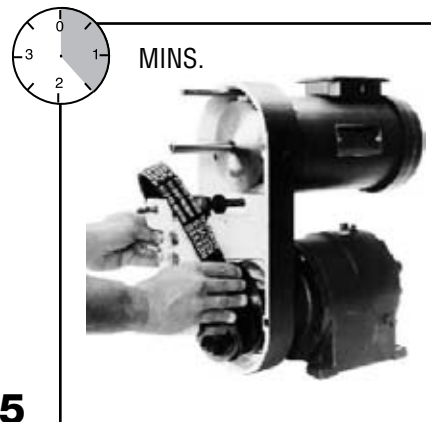
- 2** Remove fasteners on ABS -
composite beltcase cover.



- 3** Pull pin in cast-iron shafting
yoke.



- 4** Slide the bushed disc off the input
shaft.



- 5** Remove belt.



- 6** Reverse procedure for reassembly

QUICK, EASY BELT REPLACEMENT

Belt changes take less than 3 minutes.



REEVES ULTIMA Drive

REEVES ULTIMA is an adjustable speed drive designed to provide infinitely variable speed up to an 8 to 1 speed range. It is specifically designed to offer high starting torque, excellent shock resistance, long life and extremely easy maintenance. ULTIMA drive's user friendly design cuts scheduled maintenance to minutes per year.

REEVES ULTIMA is available in many mounting configurations including:

- NEMA C-face inputs and output
- IEC B5 inputs
- Metric and English outputs
- Foot and flange mounts

REEVES ULTIMA drives employ either DODGE APG parallel gearing or MASTER XL right angle worm and worm/helical gearing.

Standard ULTIMA drive motors are 1750 rpm, 3 phase, 230/460 volt, 60 Hz, TEFC, 1.15 Service factor, Class F insulated, Design B, C-face footless.

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

A variety of control options are available. A handwheel control is standard, with ERC (Electric Remote Control) and RAC (REEVES Automatic Controller) available options.

Both mechanical indicator handwheels and programmable electronic digital tachometers are available. When a digital indicator or ERC/RAC is installed, it is NOT necessary to remove the tach pickup or any associated wiring during normal belt and bushing maintenance.

Mechanical speed stops may be set easily and precisely.

HOW TO ORDER ULTIMA DRIVES

All ULTIMA drives and accessories have a part number. Refer to the part number when ordering. Always specify a mounting position if other than standard. Floor mount with the motor at 12 o'clock is standard. Specify the mounting position after the part number of the basic unit. See page D6-19 for information on mounting positions.

ULTIMA accessories also have part numbers. When accessories are required, specify the accessory part number(s) along with the basic drive part number and mounting position.

ORDERING EXAMPLE:

Parallel, 1 HP, 79 to 10 rpm. 7000690 (selection from page G8-6)

9A1 position (chosen from page G8-19 & G8- 21)

NOMENCLATURE

BELT CASE SIZE _____

1

REDUCER TYPE _____

R = REEVES Non Gear

A = DODGE APG

V = MASTER XL Single Worm

B = Master XL Combination

REDUCER SIZES _____

00 = Non Gear

2D, 2T - APG 2 Double/Triple

3S, 3D, 3T = APG 3 Single/Double/Triple

4S, 4D, 4T = APG 4 Single/Double/Triple

16, 21, 28 = XL Single Worm

16, 21, 28 = XL Combination

EXAMPLES

SIZE ONE CASE _____

XL COMBINATION _____

XL SIZE 21 _____

EXAMPLES

SIZE ONE CASE _____

APG REDUCER _____

SIZE 3 APG DOUBLE REDUCTION _____

ULTIMA - Parallel

0.75/0.64 Horsepower
8:1 Speed Range - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3700	747	460	7000003	1R00	0		11	54	54
3033	612	377	7000010	1A2S	1.22	III	13	66	66
2467	498	307	7000027	1A2S	1.50	III	16	81	81
2011	406	250	7000034	1A2S	1.84	III	20	99	99
1644	332	204	7000041	1A2S	2.25	III	25	121	121
1341	271	167	7000058	1A2S	2.76	III	30	149	149
1095	221	136	7000065	1A2S	3.38	III	37	183	183
896	181	111	7000072	1A2D	4.13	III	45	223	223
731	148	91	7000089	1A2D	5.06	III	55	273	273
597	120	74	7000096	1A2D	6.20	III	68	335	335
487	98	61	7000102	1A2D	7.59	III	83	410	410
398	80	49	7000119	1A2D	9.30	III	101	502	502
325	66	40	7000126	1A2D	11.4	III	124	616	616
264	53	33	7000133	1A2D	14.0	III	153	756	756
216	44	27	7000140	1A2D	17.1	III	186	923	923
177	36	22	7000157	1A2D	20.9	III	228	1129	1129
145	29	18	7000164	1A2D	25.6	III	279	1382	1382
118	28	15	7000171	1A2T	31.4	III	342	1456	1456
96	29	12	7000188	1A2T	38.4	III	419	1415	1415
79	28	10	7000195	1A2T	47.1	III	513	1446	1446
64	28	8.0	7000201	1A2T	57.7	II	629	1430	1430
52	27	6.5	7000218	1A2T	70.6	II	770	1478	1478
43	28	5.3	7000225	1A2T	86.5	II	943	1430	1430
35	26	4.3	7000232	1A2T	105.9	I	1154	1551	1551
29	25	3.5	7000249	1A2T	129.7	I	1414	1633	1633

0.75/0.64 Horsepower
5:1 Speed Range - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3220	644	644	7000256	1R00	0		13	63	63
2640	528	528	7000263	1A2S	1.22	III	15	76	76
2150	429	430	7000270	1A2S	1.50	III	19	94	94
1750	350	350	7000287	1A2S	1.84	III	23	115	115
1430	286	286	7000294	1A2S	2.25	III	28	141	141
1165	233	233	7000300	1A2S	2.76	III	35	173	173
953	191	190	7000317	1A2S	3.38	III	42	212	212
780	156	156	7000324	1A2D	4.13	III	52	259	259
636	127	127	7000331	1A2D	5.06	III	63	317	317
520	104	104	7000348	1A2D	6.20	III	78	388	388
425	85	85	7000355	1A2D	7.59	III	95	475	475
346	69	69	7000362	1A2D	9.30	III	117	582	582
283	56	56	7000379	1A2D	11.4	III	143	714	714
230	46	46	7000386	1A2D	14.0	III	175	877	877
188	38	38	7000393	1A2D	17.1	III	215	1071	1071
154	31	31	7000409	1A2D	20.9	III	262	1309	1309
126	25	25	7000416	1A2D	25.6	III	320	1603	1603
103	28	20	7000423	1A2T	31.4	III	392	1441	1441
84	29	17	7000430	1A2T	38.4	III	480	1391	1391
68	28	14	7000447	1A2T	47.1	III	593	1441	1441
56	28	11	7000454	1A2T	57.7	II	720	1441	1441
46	27	9	7000461	1A2T	70.6	II	877	1494	1494
37	28	7.5	7000478	1A2T	86.5	I	1090	1441	1441
30	26	6	7000485	1A2T	105.9	I	1345	1551	1551
25	25	5	7000492	1A2T	129.7	I	1613	1633	1633

ULTIMA - Parallel

1.0/0.85 Horsepower
8:1 Speed Range - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3700	992	460	7000508	1R00	0		14	54	54
3033	813	377	7000515	1A2S	1.22	III	18	66	66
2467	661	307	7000522	1A2S	1.50	III	22	81	81
2011	539	250	7000539	1A2S	1.84	III	27	99	99
1644	441	204	7000546	1A2S	2.25	III	33	122	122
1341	359	167	7000553	1A2S	2.76	III	40	149	149
1095	293	136	7000560	1A2S	3.38	III	49	183	183
896	240	111	7000577	1A2D	4.13	III	60	223	223
731	196	91	7000584	1A2D	5.06	III	73	273	273
597	160	74	7000591	1A2D	6.20	III	90	335	335
487	131	61	7000607	1A2D	7.59	III	110	410	410
398	107	49	7000614	1A2D	9.30	III	135	502	502
325	87	40	7000621	1A2D	11.4	III	165	616	616
264	71	33	7000638	1A2D	14.0	III	203	756	756
216	58	27	7000645	1A2D	17.1	III	248	923	923
177	47	22	7000652	1A2D	20.9	III	303	1129	1129
145	39	18	7000669	1A2D	25.6	III	371	1382	1382
118	43	15	7000676	1A2T	31.4	III	455	1246	1246
96	44	12	7000683	1A2T	38.4	II	556	1218	1218
79	43	10	7000690	1A2T	47.1	II	682	1246	1246
64	43	8.0	7000706	1A2T	57.7	II	835	1246	1246
52	39	6.5	7000713	1A2T	70.6	I	1022	1374	1374
43	38	5.3	7000720	1A2T	86.5	I	1252	1410	1410
35	17	4.3	7000737	1A3T	105.9	I	1533	3189	3189
29	17	3.5	7000744	1A3T	129.7	I	1878	3189	3189

1.0/0.85 Horsepower
5:1 Speed Range - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3220	744	644	7000751	1R00	0		17	72	72
2640	610	528	7000768	1A2S	1.22	III	20	88	88
2150	496	430	7000775	1A2S	1.50	III	25	108	108
1750	404	350	7000782	1A2S	1.84	III	31	132	132
1430	331	286	7000799	1A2S	2.25	III	37	162	162
1165	270	233	7000805	1A2S	2.76	III	46	199	199
953	220	190	7000812	1A2S	3.38	III	56	243	243
780	180	156	7000829	1A2D	4.13	III	69	297	297
636	147	127	7000836	1A2D	5.06	III	84	364	364
520	120	104	7000843	1A2D	6.20	III	103	446	446
425	98	85	7000850	1A2D	7.59	III	126	547	547
346	80	69	7000867	1A2D	9.30	III	155	670	670
283	65	56	7000874	1A2D	11.4	III	189	821	821
230	53	46	7000881	1A2D	14.0	III	233	1008	1008
188	44	38	7000898	1A2D	17.1	III	285	1231	1231
154	36	31	7000904	1A2D	20.9	III	348	1505	1505
126	33	25	7000911	1A2D	25.6	III	425	1623	1623
103	43	20	7000928	1A2T	31.4	III	520	1246	1246
84	44	17	7000935	1A2T	38.4	II	638	1218	1218
68	43	14	7000942	1A2T	47.1	II	788	1246	1246
56	43	11	7000959	1A2T	57.7	I	957	1246	1246
46	37	9.0	7000966	1A2T	70.6	I	1165	1448	1448
37	16	7.5	7000973	1A3T	86.5	III	1448	3412	3412
30	16	6.0	7000980	1A3T	105.9	II	1786	3412	3412
25	17	5.0	7000997	1A3T	129.7	II	2143	3189	3189

ULTIMA - Parallel

1.5/1.3 HORSEPOWER
8:1 SPEED RANGE - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3700	1517	460	7001000	1R00	0		22	54	54
3033	1243	377	7001017	1A2S	1.22	III	27	66	66
2467	1011	307	7001024	1A2S	1.50	III	33	81	81
2011	824	250	7001031	1A2S	1.84	III	41	99	99
1644	674	204	7001048	1A2S	2.25	III	50	122	122
1341	550	167	7001055	1A2S	2.76	III	61	149	149
1095	449	136	7001062	1A2S	3.38	III	75	183	183
896	367	111	7001079	1A2D	4.13	III	91	223	223
731	300	91	7001086	1A2D	5.06	III	112	273	273
597	245	74	7001093	1A2D	6.20	III	137	335	335
487	200	61	7001109	1A2D	7.59	III	168	410	410
398	163	49	7001116	1A2D	9.30	III	206	502	502
325	133	40	7001123	1A2D	11.4	III	252	616	616
264	108	33	7001130	1A2D	14.0	III	310	756	756
216	89	27	7001147	1A2D	17.1	III	379	924	924
177	73	22	7001154	1A2D	20.9	III	463	1129	1129
145	59	18	7001161	1A2D	25.6	III	567	1383	1383
118	80	15	7001178	1A2T	31.4	II	695	1024	1024
96	76	12	7001185	1A2T	38.4	I	850	1078	1078
79	70	10	7001192	1A2T	47.1	I	1043	1170	1170
64	27	8.0	7001208	1A3T	57.7	III	1278	3035	3035
52	27	6.5	7001215	1A3T	70.6	II	1563	3035	3035
43	27	5.3	7001222	1A3T	86.5	II	1915	3035	3035
35	26	4.3	7001239	1A3T	105.9	I	2345	3104	3104
29	25	3.5	7001246	1A4T	129.7	I	2872	3290	3290

1.5/1.3 Horsepower
5:1 Speed Range - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3220	1138	644	7001253	1R00	0		25	72	72
2640	933	528	7001260	1A2S	1.22	III	31	88	88
2150	759	430	7001277	1A2S	1.50	III	38	108	108
1750	618	350	7001284	1A2S	1.84	III	47	132	132
1430	506	286	7001291	1A2S	2.25	III	57	162	162
1165	412	233	7001307	1A2S	2.76	III	70	199	199
953	337	190	7001314	1A2S	3.38	III	86	243	243
780	276	156	7001321	1A2D	4.13	III	105	297	297
636	225	127	7001338	1A2D	5.06	III	129	364	364
520	184	104	7001345	1A2D	6.20	III	158	446	446
425	150	85	7001352	1A2D	7.59	III	193	546	546
346	122	69	7001369	1A2D	9.30	III	237	670	670
283	100	56	7001376	1A2D	11.4	III	290	821	821
230	81	46	7001383	1A2D	14.0	III	356	1008	1008
188	67	38	7001390	1A2D	17.1	III	436	1231	1231
154	54	31	7001406	1A2D	20.9	III	532	1505	1505
126	53	25	7001413	1A2D	25.6	III	650	1546	1546
103	80	20	7001420	1A2T	31.4	I	795	1024	1024
84	76	17	7001437	1A2T	38.4	I	975	1078	1078
68	25	14	7001444	1A3T	47.1	III	1205	3277	3277
56	27	11	7001451	1A3T	57.7	II	1463	3092	3092
46	27	9.0	7001468	1A3T	70.6	II	1781	3069	3069
37	27	7.5	7001475	1A3T	86.5	II	2214	3069	3069
30	26	6.0	7001482	1A3T	105.9	I	2731	3104	3104
25	14	5.0	7001499	1A4T	129.7	II	3277	5811	5811

ULTIMA - Parallel

2.0/1.7 Horsepower
8:1 Speed Range - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3700	992	460	7001505	2R00	0		29	108	108
3033	813	377	7001512	2A3S	1.22	III	35	132	132
2467	661	307	7001529	2A3S	1.50	III	43	162	162
2011	539	250	7001536	2A3S	1.84	III	53	199	199
1644	441	204	7001543	2A3S	2.25	III	65	243	243
1341	359	167	7001550	2A3S	2.76	III	80	298	298
1095	293	136	7001567	2A3S	3.38	III	98	365	365
896	240	111	7001574	2A3D	4.13	III	120	446	446
731	196	91	7001581	2A3D	5.06	III	147	547	547
597	160	74	7001598	2A3D	6.20	III	180	670	670
487	131	61	7001604	2A3D	7.59	III	220	820	820
398	107	49	7001611	2A3D	9.30	III	269	1004	1004
325	87	40	7001628	2A3D	11.4	III	330	1231	1231
264	71	33	7001635	2A3D	14.0	III	405	1512	1512
216	58	27	7001642	2A3D	17.1	III	495	1847	1847
177	47	22	7001659	2A3D	20.9	III	605	2257	2257
145	39	18	7001666	2A3D	25.6	III	741	2765	2765
118	36	15	7001673	2A3T	31.4	III	909	3001	3001
96	36	12	7001680	2A3T	38.4	III	1112	3010	3010
79	36	9.8	7001697	2A3T	47.1	II	1364	3010	3010
64	36	8.0	7001703	2A3T	57.7	II	1671	2993	2993
52	36	6.5	7001710	2A3T	70.6	I	2044	2968	2968
43	36	5.3	7001727	2A3T	86.5	I	2505	2976	2976
35	19	4.3	7001734	2A4T	105.9	II	3067	5639	5639
29	19	3.5	7001741	2A4T	129.7	II	3756	5639	5639

2.0/1.7 HORSEPOWER
5:1 SPEED RANGE - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3220	1488	644	7001758	1R00	0		33	72	72
2639	1220	528	7001765	1A2S	1.22	III	41	88	88
2147	992	430	7001772	1A2S	1.50	III	50	108	108
1750	809	350	7001789	1A2S	1.84	III	61	132	132
1430	661	286	7001796	1A2S	2.25	III	75	162	162
1165	539	233	7001802	1A2S	2.76	III	92	199	199
953	458	190	7001819	1A2S	3.38	III	112	234	234
780	360	156	7001826	1A2D	4.13	III	137	297	297
636	294	127	7001833	1A2D	5.06	III	168	364	364
520	240	104	7001840	1A2D	6.20	III	206	446	446
425	196	85	7001857	1A2D	7.59	III	252	547	547
346	160	69	7001864	1A2D	9.30	III	310	670	670
283	131	56	7001871	1A2D	11.4	III	379	821	821
230	106	46	7001888	1A2D	14.0	III	466	1008	1008
188	87	38	7001895	1A2D	17.1	III	570	1231	1231
154	71	31	7001901	1A2D	20.9	III	696	1505	1505
126	71	25	7001918	1A2D	25.6	III	850	1509	1509
103	47	20	7001925	1A3T	31.4	III	1040	2261	2261
84	39	17	7001932	1A3T	38.4	III	1276	2765	2765
68	36	14	7001949	1A3T	47.1	II	1576	3018	3018
56	36	11	7001956	1A3T	57.7	II	1913	2993	2993
46	36	9.0	7001963	1A3T	70.6	I	2329	2968	2968
37	19	7.5	7001970	1A4T	86.5	I	2896	5639	5639
30	19	6.0	7001987	1A4T	105.9	II	3571	5730	5730
25	19	5.0	7001994	1A4T	129.7	II	4286	5639	5639

ULTIMA - Parallel

3.0/2.5 HORSEPOWER
8:1 SPEED RANGE - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3700	1458	460	7002007	2R00	0		43	108	108
3033	1195	377	7002014	2A3S	1.22	III	52	132	132
2467	972	307	7002021	2A3S	1.50	III	64	162	162
2011	792	250	7002038	2A3S	1.84	III	78	199	199
1644	648	204	7002045	2A3S	2.25	III	96	243	243
1341	528	167	7002052	2A3S	2.76	III	118	298	298
1095	431	136	7002069	2A3S	3.38	III	144	365	365
896	353	111	7002076	2A3D	4.13	III	176	446	446
731	288	91	7002083	2A3D	5.06	III	215	547	547
597	235	74	7002090	2A3D	6.20	III	264	670	670
487	192	61	7002106	2A3D	7.59	III	323	820	820
398	157	49	7002113	2A3D	9.30	III	396	1005	1005
325	128	40	7002120	2A3D	11.4	III	485	1232	1232
264	104	33	7002137	2A3D	14.0	III	596	1513	1513
216	85	27	7002144	2A3D	17.1	III	728	1848	1848
177	70	22	7002151	2A3D	20.9	III	890	2259	2259
145	57	18	7002168	2A3D	25.6	III	1090	2767	2767
118	56	15	7002175	2A3T	31.4	II	1337	2839	2839
96	55	12	7002182	2A3T	38.4	II	1635	2865	2865
79	55	9.8	7002199	2A3T	47.1	I	2006	2875	2875
64	55	8	7002205	2A3T	57.7	I	2457	2865	2865
52	30	6.5	7002212	2A4T	70.6	II	3006	5200	5200
43	30	5.3	7002229	2A4T	86.5	I	3684	5323	5323
35	29	4.3	7002236	2A4T	105.9	I	4510	5378	5378
29	13	3.5	7002243	2A5T	129.7	II	5523	12028	12028

3.0/2.6 HORSEPOWER
5:1 SPEED RANGE - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3220	910	640	7002250	2R00	0		51	180	180
2639	746	525	7002267	2A3S	1.22	III	62	220	220
2147	607	427	7002274	2A3S	1.50	III	76	270	270
1750	495	348	7002281	2A3S	1.84	III	94	331	331
1431	404	284	7002298	2A3S	2.25	III	115	405	405
1167	330	232	7002304	2A3S	2.76	III	140	497	497
953	282	189	7002311	2A3S	3.38	III	172	581	581
780	220	155	7002328	2A3D	4.13	III	210	744	744
636	180	126	7002335	2A3D	5.06	III	258	911	911
519	147	103	7002342	2A3D	6.20	III	316	1116	1116
424	120	84	7002359	2A3D	7.59	III	386	1367	1367
346	98	69	7002366	2A3D	9.30	III	473	1675	1675
282	80	56	7002373	2A3D	11.4	III	580	2053	2053
230	65	46	7002380	2A3D	14.0	III	712	2521	2521
188	57	37	7002397	2A3D	17.1	III	870	2875	2875
154	57	31	7002403	2A3D	20.9	III	1064	2875	2875
126	57	25	7002410	2A3D	25.6	III	1303	2860	2860
103	32	20	7002427	2A4T	31.4	II	1598	5120	5120
84	31	17	7002434	2A4T	38.4	II	1954	5286	5286
68	31	14	7002441	2A4T	47.1	I	2397	5286	5286
56	32	11	7002458	2A4T	57.7	II	2936	5089	5089
46	32	9.1	7002465	2A4T	70.6	I	3593	5137	5137
37	13	7.4	7002472	2A5T	86.5	III	4402	12605	12605
30	14	6	7002489	2A5T	105.9	II	5389	11961	11961
25	14	4.9	7002496	2A5T	129.7	II	6600	11961	11961

ULTIMA - Parallel

5.0/4.4 HORSEPOWER
8:1 SPEED RANGE - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3700	1027	460	7002502	3R00	0		75	270	270
3033	842	377	7002519	3A4S	1.22	III	91	329	329
2467	685	307	7002526	3A4S	1.50	III	112	405	405
2011	558	250	7002533	3A4S	1.84	III	138	497	497
1644	456	204	7002540	3A4S	2.25	III	169	608	608
1341	372	167	7002557	3A4S	2.76	III	207	745	745
1095	304	136	7002564	3A4S	3.38	III	253	913	913
896	249	111	7002571	3A4D	4.13	III	310	1115	1115
731	203	91	7002588	3A4D	5.06	III	379	1366	1366
597	166	74	7002595	3A4D	6.20	III	465	1674	1674
487	135	61	7002601	3A4D	7.59	III	569	2049	2049
398	110	49	7002618	3A4D	9.30	III	697	2511	2511
325	90	40	7002625	3A4D	11.4	III	854	3078	3078
264	73	33	7002632	3A4D	14.0	III	1049	3780	3780
216	60	27	7002649	3A4D	17.1	III	1282	4617	4617
177	54	22	7002656	3A4D	20.9	III	1566	5116	5116
145	74	18	7002663	3A4D	25.6	II	1919	3737	3737
118	76	15	7002670	3A4T	31.4	I	2353	3668	3668
96	73	12	7002687	3A4T	38.4	I	2878	3799	3799
79	72	9.8	7002694	3A4T	47.1	I	3530	3857	3857
64	27	8.0	7002700	3A5T	57.7	II	4325	10121	10121
52	27	6.5	7002717	3A5T	70.6	II	5291	10425	10425
43	26	5.3	7002724	3A5T	86.5	I	6483	10748	10748
35	26	4.3	7002731	3A5T	105.9	I	7937	10707	10707
29	27	3.5	7002748	3A5T	129.7	I	9721	10233	10233

5.0/4.7 HORSEPOWER
5:1 SPEED RANGE - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3220	1645	640	7002755	2R00	0		92	180	180
2639	1348	525	7002762	2A3S	1.22	III	112	220	220
2147	1097	427	7002779	2A3S	1.50	III	138	270	270
1750	894	348	7002786	2A3S	1.84	III	169	331	331
1431	731	284	7002793	2A3S	2.25	III	207	405	405
1167	596	232	7002809	2A3S	2.76	II	254	497	497
953	534	189	7002816	2A3S	3.38	II	311	555	555
780	398	155	7002823	2A3D	4.13	III	380	744	744
636	325	126	7002830	2A3D	5.06	III	465	911	911
519	265	103	7002847	2A3D	6.20	III	570	1116	1116
424	217	84	7002854	2A3D	7.59	III	698	1367	1367
346	177	69	7002861	2A3D	9.30	III	856	1675	1675
282	144	56	7002878	2A3D	11.4	III	1049	2053	2053
230	118	46	7002885	2A3D	14.0	II	1288	2521	2521
188	108	37	7002892	2A3D	17.1	II	1573	2743	2743
154	108	31	7002908	2A3D	20.9	I	1923	2743	2743
126	108	25	7002915	2A3D	25.6	I	2355	2743	2743
103	84	20	7002922	2A4T	31.4	I	2889	3526	3526
84	81	17	7002939	2A4T	38.4	I	3533	3657	3657
68	35	14	7002946	2A5T	47.1	II	4333	8481	8481
56	30	11	7002953	2A5T	57.7	II	5308	9776	9776
46	30	9.1	7002960	2A5T	70.6	II	6495	10007	10007
37	29	7.4	7002977	2A5T	86.5	I	7957	10394	10394
30	29	6.0	7003714	2A5T	105.9	I	9742	10321	10321

ULTIMA - Parallel

7.5/6.5 Horsepower
8:1 Speed Range - TEFC

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3700	1517	460	7002984	3R00	0		111	270	270
3033	1243	377	7002991	3A4S	1.22	III	135	329	329
2467	1011	307	7003004	3A4S	1.50	III	166	405	405
2011	824	250	7003011	3A4S	1.84	III	204	497	497
1644	674	204	7003028	3A4S	2.25	III	249	608	608
1341	550	167	7003035	3A4S	2.76	III	306	745	745
1095	449	136	7003042	3A4S	3.38	III	374	913	913
896	367	111	7003059	3A4D	4.13	III	457	1115	1115
731	300	91	7003066	3A4D	5.06	III	560	1366	1366
597	245	74	7003073	3A4D	6.20	III	686	1674	1674
487	200	61	7003080	3A4D	7.59	III	840	2050	2050
398	163	49	7003097	3A4D	9.30	III	1030	2511	2511
325	133	40	7003103	3A4D	11.4	III	1262	3079	3079
264	108	33	7003110	3A4D	14.0	III	1550	3781	3781
216	89	27	7003127	3A4D	17.1	III	1893	4603	4603
177	81	22	7003134	3A4D	20.9	II	2314	5058	5058
145	117	18	7003141	3A4D	25.6	I	2834	3501	3501
118	49	15	7003158	3A5T	31.4	II	3477	8360	8360
96	45	12	7003165	3A5T	38.4	II	4252	9104	9104
79	47	9.8	7003172	3A5T	47.1	I	5215	8716	8716
64	49	8.0	7003189	3A5T	57.7	I	6389	8360	8360
52	44	6.5	7003196	3A5T	70.6	I	7817	9311	9311
43	20	5.3	7003202	3A6T	86.5	II	9577	20690	20690
35	20	4.3	7003219	3A6T	105.9	II	11725	21008	21008
29	20	3.5	7003226	3A6T	129.7	I	14360	20280	20280

7.5/7.0 HORSEPOWER
5:1 SPEED RANGE - TEFC

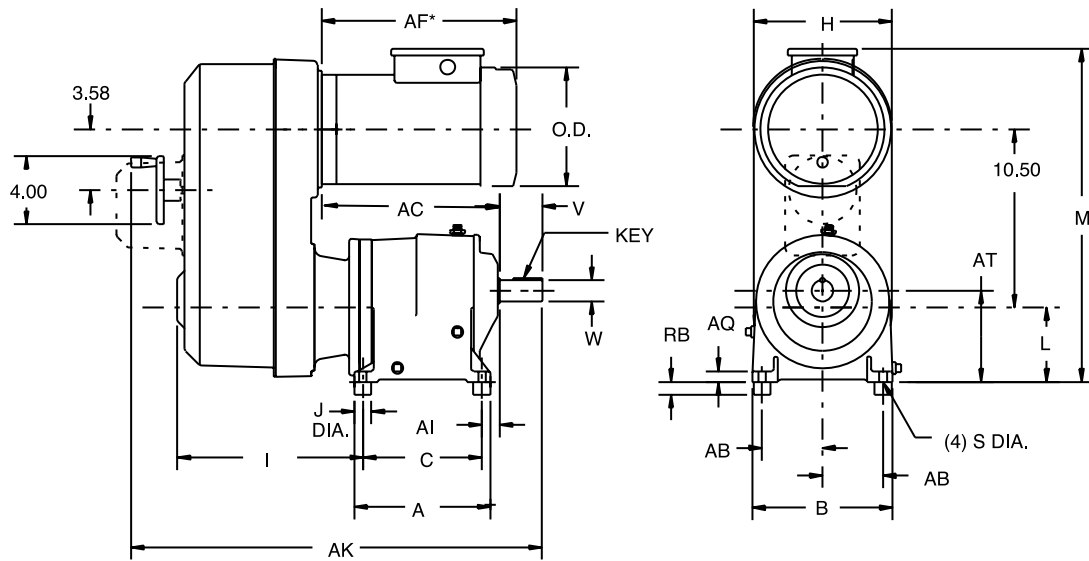
Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3220	1225	640	7003233	3R00	0		137	360	360
2639	1004	525	7003240	3A4S	1.22	III	167	439	439
2147	817	427	7003257	3A4S	1.50	III	206	540	540
1750	666	348	7003264	3A4S	1.84	III	252	663	663
1431	544	284	7003271	3A4S	2.25	III	308	810	810
1167	444	232	7003288	3A4S	2.76	III	378	994	994
953	441	189	7003295	3A4S	3.38	II	463	1000	1000
780	297	155	7003301	3A4D	4.13	III	566	1487	1487
636	242	126	7003318	3A4D	5.06	III	693	1822	1822
519	198	103	7003325	3A4D	6.20	III	849	2233	2233
424	161	84	7003332	3A4D	7.59	III	1040	2733	2733
346	132	69	7003349	3A4D	9.30	III	1274	3349	3349
282	107	56	7003356	3A4D	11.4	III	1562	4106	4106
230	89	46	7003363	3A4D	14.0	III	1918	4968	4968
188	89	37	7003370	3A4D	17.1	II	2343	4963	4963
154	88	31	7003387	3A4D	20.9	II	2864	5031	5031
126	48	25	7003394	3A5D	25.6	III	3507	9230	9230
103	54	20	7003400	3A5T	31.4	II	4302	8110	8110
84	51	17	7003417	3A5T	38.4	I	5261	8600	8600
68	53	14	7003424	3A5T	47.1	I	6453	8308	8308
56	55	11	7003431	3A5T	57.7	I	7906	7992	7992
46	20	9.1	7003448	3A6T	70.6	II	9673	21949	21949
37	19	7.4	7003455	3A6T	86.5	II	11851	22741	22741
30	20	6.0	7003462	3A6T	105.9	I	14509	22782	22782
25	22	4.9	7003479	3A6T	129.7	I	17770	20237	20237

ULTIMA - Parallel

10.0/9.8 Horsepower

8:1 SPEED RANGE - NOT AVAILABLE**5:1 Speed Range - TEFC**

Speed Range			Part Number	Size	Ratio	Gear Class	Output Torque (In-Lbs)		
Max	Int	Min					Max Spd	Int Spd	Min Spd
3220	1715	640	7003486	3R00	0		192	360	360
2639	1406	525	7003493	3A4S	1.22	III	234	439	439
2147	1143	427	7003509	3A4S	1.50	III	288	540	540
1750	932	348	7003516	3A4S	1.84	III	353	663	663
1431	762	284	7003523	3A4S	2.25	II	432	810	810
1167	627	232	7003530	3A4S	2.76	II	529	985	985
953	636	189	7003547	3A4S	3.38	II	648	971	971
780	415	155	7003554	3A4D	4.13	III	792	1487	1487
636	339	126	7003561	3A4D	5.06	III	971	1822	1822
519	277	103	7003578	3A4D	6.20	III	1189	2233	2233
424	226	84	7003585	3A4D	7.59	III	1456	2733	2733
346	184	69	7003592	3A4D	9.3	III	1784	3349	3349
282	150	56	7003608	3A4D	11.4	II	2187	4106	4106
230	127	46	7003615	3A4D	14.0	II	2685	4875	4875
188	129	37	7003622	3A4D	17.1	I	3280	4777	4777
154	129	31	7003639	3A4D	20.9	I	4009	4799	4799
126	67	25	7003646	3A5D	25.6	III	4910	9220	9220
103	91	20	7003653	3A5T	31.4	I	6023	6802	6802
84	45	17	7003660	3A6T	38.4	II	7366	13829	13829
68	36	14	7003677	3A6T	47.1	II	9034	16963	16963
56	33	11	7003684	3A6T	57.7	I	11068	18773	18773
46	29	9.1	7003691	3A6T	70.6	I	13542	21008	21008
37	31	7.4	7003707	3A6T	86.5	I	16592	19362	19362

ULTIMA - Parallel**SIZE 1 - VERTICAL - ASSEMBLY 12A1 SHOWN**

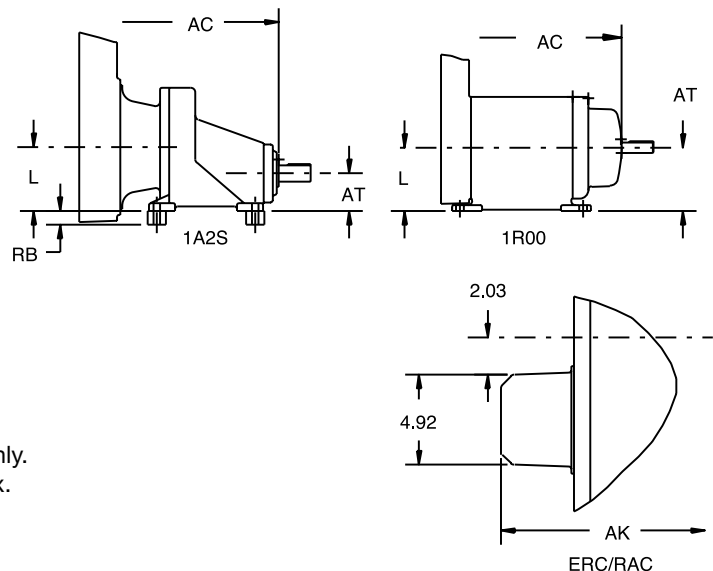
Size	A	B	C	H	I	J	L	M	S	V	W	AB	AC	AI	AK	
															HW	ERC/RAC
1R00	10.13	9.50	9.00	8.13	7.19	NR	4.62	19.84	0.56	2.31	0.7500/0.7495	3.44	10.49	2.81	24.05	24.89
1A2S	6.25	7.12	5.35		10.13	1.00	3.68	18.75	0.38	1.75	0.874/0.875	3.15	9.38	1.31	21.45	22.29
1A2D	7.06		6.30		10.18		2.00			0.999/1.000	8.80		0.81	22.04	22.88	
1A2T					10.77		9.38			0.81	22.62		23.46			
1A3T	8.00	8.38	7.00		10.92	NR	4.39	19.60	0.44	2.51	1.249/1.250	3.56	10.49	1.07	24.24	25.08
1A4T	9.00	8.25	7.88		10.80		4.82	20.04	0.56	3.26	1.624/1.625	3.50	11.16	0.98	25.65	26.49

Size	AQ	AT	RB †	Key
1R00	0.50	4.62	NR	3/16" SQ. X 1.75
1A2S	0.62	2.20	0.75	
1A2D	0.63	4.56		1/4" SQ. X 1.75
1A2T				
1A3T	0.63	5.37	NR	3/8" SQ. X 2.75
1A4T		6.17		

	0.75 HP 143TC	1 HP 145TC	1.5 HP 145TC	2 HP 145TC
AF*	9.42	10.42	10.42	10.86
O. D.	7.13	7.13	7.13	7.13

NOTE:

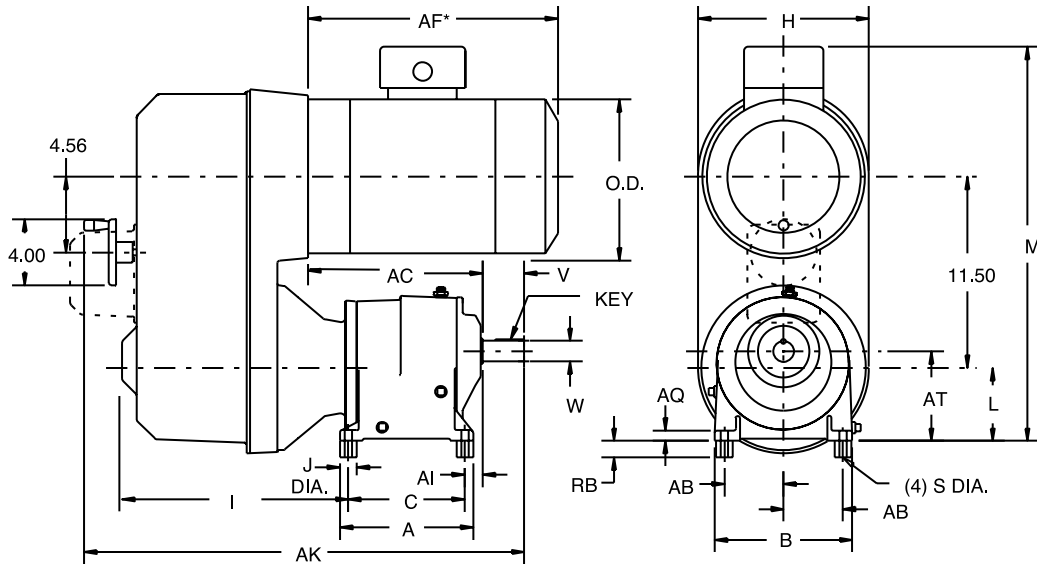
- * Dimensions shown are for stock TEFC enclosure motors only.
- † Height of riser block that comes standard with the gearbox.
- NR indicates that riser block is not required.
- All dimensions are in inches.



Introduction

REEVES MOTODRIVEREEVES ULTIMA

1. * Dimensions shown are for stock TEFC enclosure motors only.
2. † Height of riser block that comes standard with the gearbox.
3. NR indicates that riser block is not required.
4. All dimensions are in inches.

ULTIMA - Parallel**SIZE 2 - VERTICAL - ASSEMBLY 12A1 SHOWN**

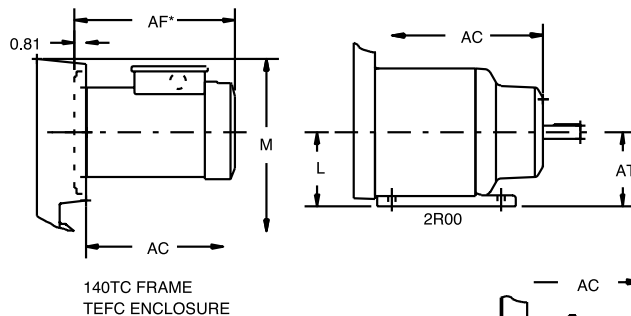
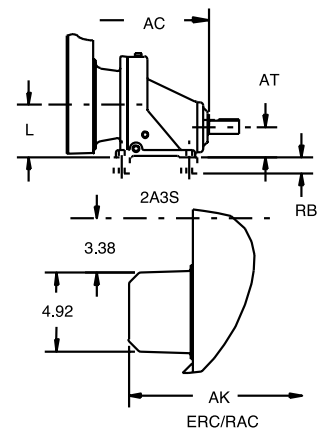
Size	A	B	C	H	I	J	L	M		S	V	W	AB	AC	AI	AK		
								140TC	180TC							HW	ERC	
2R00	10.75	13.00	8.50	10.26	10.72	NR	5.75	22.48	25.06	0.50	2.88	0.9995/1.000	5.69	11.38	3.25	27.64	28.48	
2A3S	6.62	8.25	5.62		13.48	1.00	4.39	22.11	23.69	0.44	2.51	1.124/1.125	3.56	9.63	1.62	25.52	26.36	
2A3D	8.00	8.38	7.00		13.43		4.82	21.55	24.13	0.56	3.26	1.624/1.250		10.41	1.07	26.30	27.14	
2A3T	8.00		7.00		14.12									11.10		26.99	27.83	
2A4T	9.00	8.25	7.88		13.99	1.50	4.82	21.55	24.13	0.56	3.26	1.624/1.625	3.50	11.75	0.98	28.40	29.24	
2A5T	10.31	12.25	9.06		14.15	NR	6.10	NA	25.41	0.72	3.98	1.999/2.000	5.38	13.20	1.08	30.56	31.40	

Size	AQ	AT	RB †	Key
2R00	0.88	5.75	NR	1/4" SQ. x 2.06
2A3S	0.63	2.51	1.00	1/4" SQ. X 1.75
2A3D		5.37		
2A3T				
2A4T				
2A5T	0.74	7.74	NR	1/2" SQ. X 3.50

	2 HP 145TC	3 HP 180TC	5 HP 180TC
AF*	10.86	15.01	15.01
O. D.	7.13	9.25	9.25

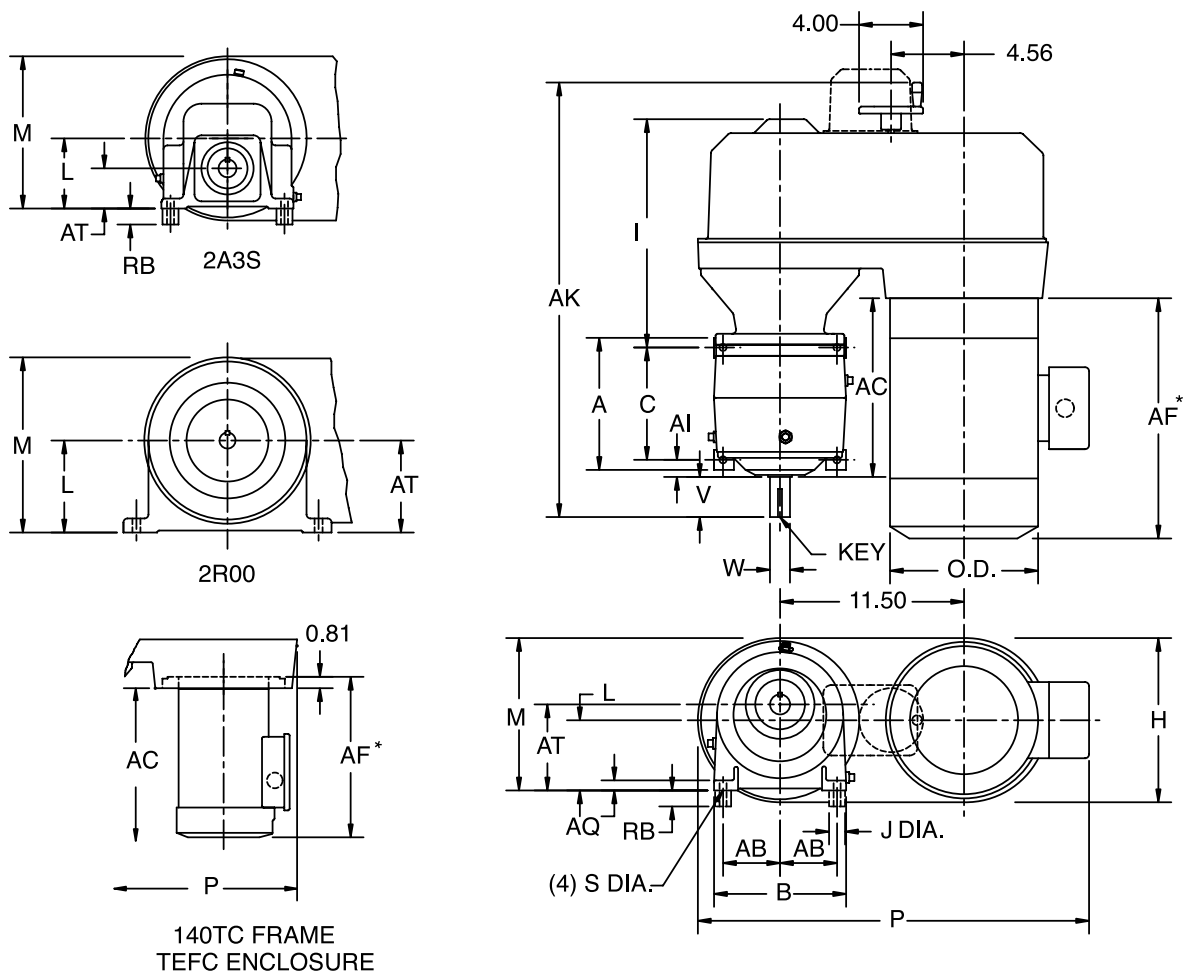
NOTE:

- * Dimensions shown are for stock TEFC enclosure motors only.
- † Height of riser block that comes standard with the gearbox.
- NR indicates that riser block is not required.
- All dimensions are in inches.

140TC FRAME
TEFC ENCLOSURE

ULTIMA - Parallel

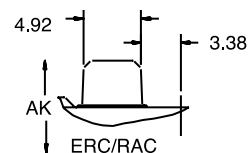
SIZE 2 - HORIZONTAL - ASSEMBLY 3A1 SHOWN



Size	A	B	C	H	I	J	L	M	P		S	V	W	AB	AC	AI	AK	
									140TC	180TC							HW	ERC
2R00	10.75	13.00	8.50	10.26	10.72	NR	5.75	10.88	21.72	24.81	0.50	2.88	0.9995/1.000	5.69	11.38	3.25	27.64	28.48
2A3S	6.62	8.25	5.62		13.48								1.124/1.125		9.63	1.62	25.52	26.36
2A3D	8.00		7.00		13.43	1.00	4.39	9.51	20.35	23.44	0.44	2.51	1.249/1.250	3.56	10.41	1.07	26.30	27.14
2A3T	8.00	8.38	7.00		14.12												26.99	27.83
2A4T	9.00	8.25	7.88		13.99	1.50	4.82	9.95			0.56	3.26	1.624/1.625	3.50	11.75	0.98	28.40	29.24
2A5T	10.31	12.25	9.06		14.15	NR	6.10	NA	21.35	24.44	0.72	3.98	1.999/2.000	5.38	13.20	1.08	30.56	31.40

Size	AQ	AT	RB†	Key
2R00	0.88	5.75	NR	1/4" SQ. X 2.06
2A3S		2.51		
2A3D	0.63	5.37	1.00	1/4" SQ. X 1.75
2A3T				
2A4T		6.17	0.88	3/8" SQ. X 2.75
2A5T	0.74	7.74	NR	1/2" SQ. X 3.50

	2 HP 145TC	3 HP 180TC	5 HP 180TC
AF*	10.86	15.01	15.01
O. D.	7.13	9.25	9.25

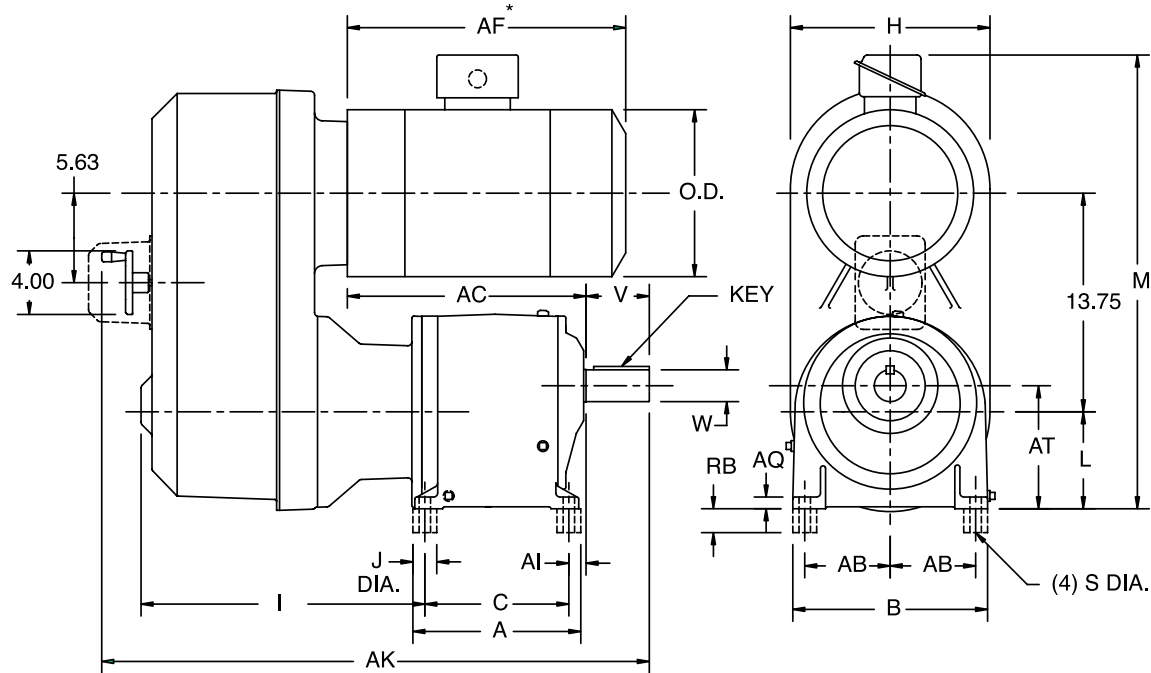


NOTE:

- * Dimensions shown are for stock TEFC enclosure motors only.
- † Height of riser block that comes standard with the gearbox.
- NR indicates that riser block is not required.
- All dimensions are in inches.
- AK IND. Handwheel - AK Handwheel - .97

ULTIMA - Parallel

SIZE 3 - VERTICAL - ASSEMBLY 12A1 SHOWN



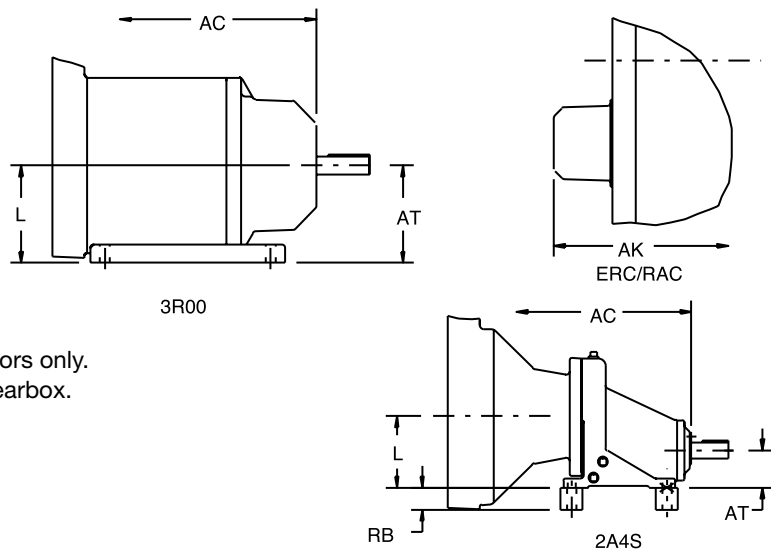
Size	A	B	C	H	I	J	L	M		S	V	W	AB	AC	AI	AK	
								180TC	210TC							HW	ERC
3R00	13.31	15.52	11.31	12.55	12.30	NR	6.62	28.18	29.06	0.69	3.63	1.2500/1.2495	6.81	15.63	3.12	32.83	33.67
3A4S	7.62	8.25	6.50		16.94	1.50	4.82	26.38	27.26	0.56	2.51	1.1250/1.2400	3.50	12.13	1.69	30.09	30.93
3A4D	9.00		7.88		16.96									12.83	0.98	31.54	32.38
3A4T					17.71									13.58		32.29	33.13
3A5D	10.31	12.25	9.06		16.98	NR	6.10	27.66	28.54	0.72	3.98	2.0000-1.9990	5.38	14.14	1.08	33.57	34.41
3A5T					17.87									15.03		34.46	35.30
3A6T	12.88	12.00	11.00		17.63									7.60	29.16	30.04	0.88	4.75	2.3750/2.3740	5.13	16.62	1.00	36.82	37.66

Size	AQ	AT	RB †	Key
3R00	1.25	6.62	NR	1/4" SQ. X 2.81
3A4S	0.63	2.55	1.50	1/4" SQ. X 1.75
3A4D		6.17		3/8" SQ. X 2.75
3A4T				
3A5D	0.74	7.74	NR	1/2" SQ. X 3.50
3A5T				5/8" SQ. X 4.00
3A6T	1.00	9.85		

	5 HP 180TC	7.50 HP 210TC	10 HP 210TC
AF*	15.01	17.51	17.51
O. D.	9.25	10.50	10.50

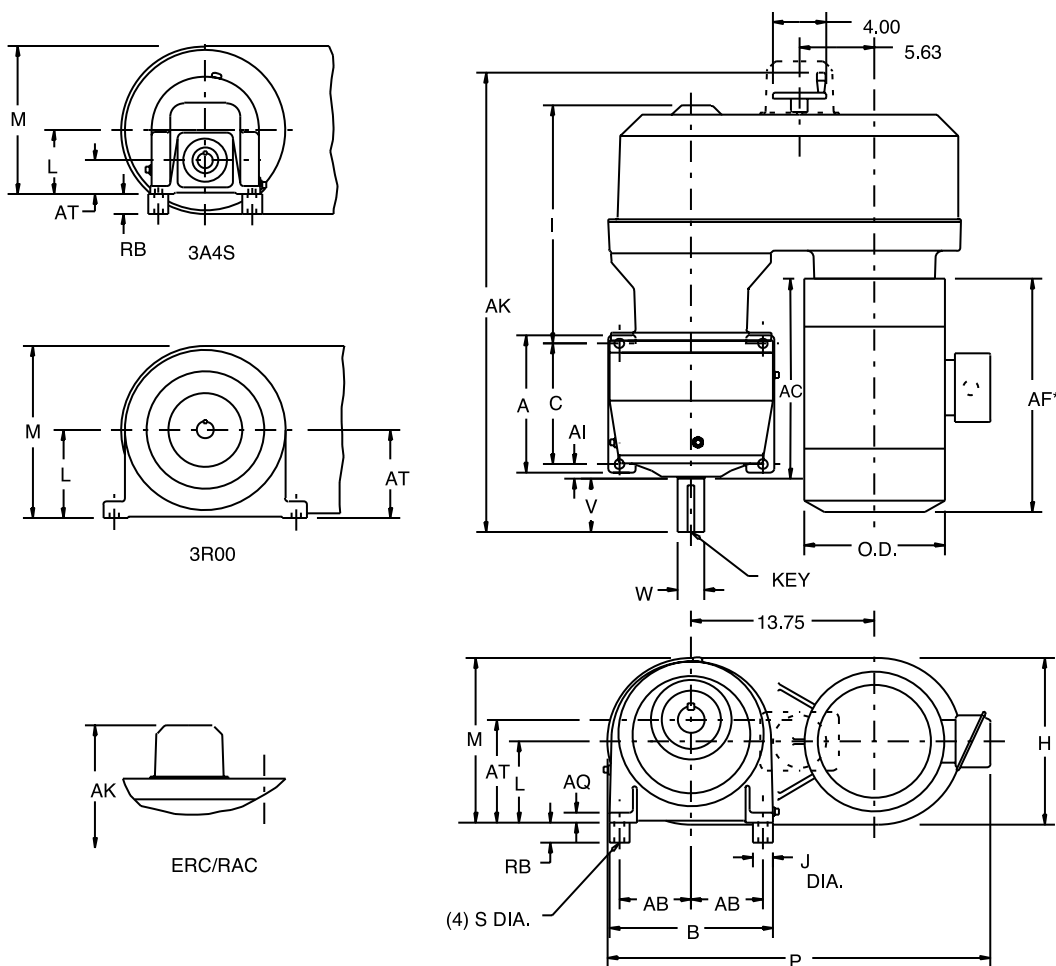
NOTE:

- * Dimensions shown are for stock TEFC enclosure motors only.
- † Height of riser block that comes standard with the gearbox.
- NR indicates that riser block is not required.
- All dimensions are in inches.



ULTIMA - Parallel

SIZE 3 - HORIZONTAL - ASSEMBLY 3A1 SHOWN



Size	A	B	C	H	I	J	L	M	P		S	V	W	AB	AC	AI	AK	
									180TC	210TC							HW	ERC
3R00	13.31	15.25	11.31	12.55	12.30	NR	6.62	13.13	29.19	30.07	0.69	3.63	1.2495/1.2500	6.81	15.63	3.12	32.83	33.67
3A4S	7.62	8.25	6.50		16.94	1.50	4.82	11.10	27.76	28.64	0.56	2.51	1.1240/1.1250	3.50	12.13	1.69	30.09	30.93
3A4D	9.00		7.88		16.96		6.10	12.38				3.26	1.6240/1.6250		12.83	0.98	31.54	32.38
3A4T					17.71										13.58		32.29	33.13
3A5D	10.31	12.25	9.06		16.98	NR	7.60	15.66			0.72	3.98	1.9990/2.0000	5.38	14.14	1.08	33.57	34.41
3A5T					17.87										15.03		34.46	35.30
3A6T	12.88	12.00	11.00		17.63													

Size	AQ	AT	RB †	Key
3R00	1.25	6.62	NR	1/4" SQ. X 2.81
3A4S	0.63	2.55	1.50	1/4" SQ. X 1.75
3A4D		6.17		3/8" SQ. X 2.75
3A4T				
3A5D	0.74	7.74	NR	1/2" SQ. X 3.50
3A5T				5/8" SQ. X 4.00
3A6T	1.00	9.85		

	5 HP 180TC	7.50 HP 210TC	10 HP 210TC
AF*	15.01	17.51	17.51
O. D.	9.25	10.50	10.50

NOTE:

- * Dimensions shown are for stock TEFC enclosure motors only.
- † Height of riser block that comes standard with the gearbox.
- NR indicates that riser block is not required.
- All dimensions are in inches.

ULTIMA - Parallel

12A1 And 12C1 Are Standard

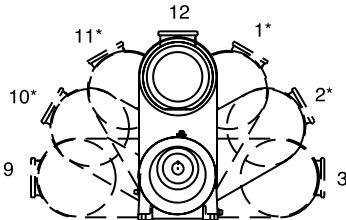
BELTCASE POSITION

(Pick one and turn page for reducer position)

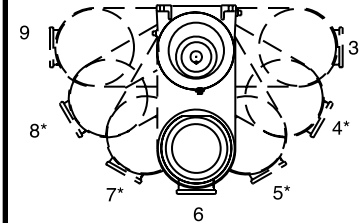
EXAMPLE

Standard assembly for a floor mount is 12A1 where 12 is the beltcase position, and A1 is the reducer position.

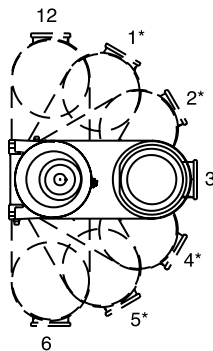
* These assemblies available on APG reducers only.



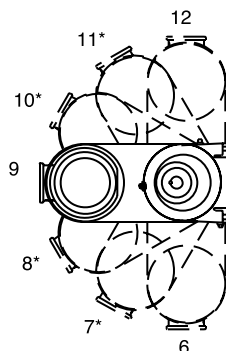
FLOOR MOUNT



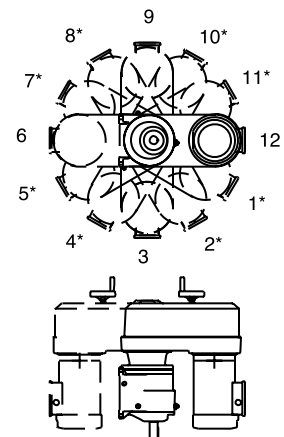
CEILING MOUNT



WEST WALL MOUNT



EAST WALL MOUNT



VERTICAL SHAFT DOWN

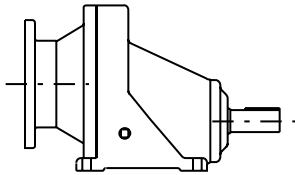
ULTIMA - Parallel 12C1 Are Standard

REDUCER POSITION

(Pick one and add to beltcase position)

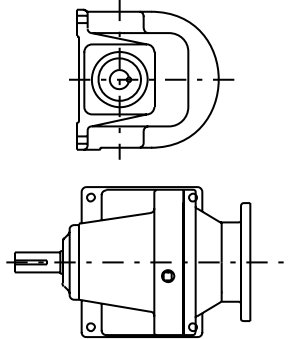
APG Single Reduction

C1



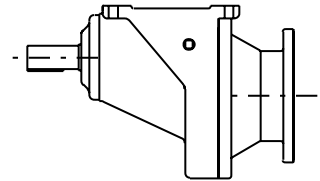
FLOOR MOUNT

C2



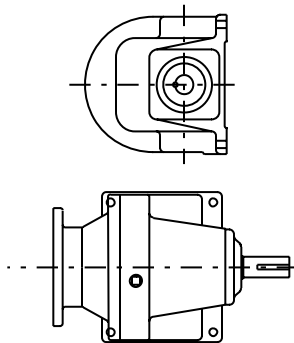
WEST WALL MOUNT

C3



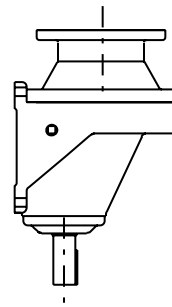
CEILING MOUNT

C4



EAST WALL MOUNT

C5



VERTICAL SHAFT DOWN

ULTIMA - Parallel

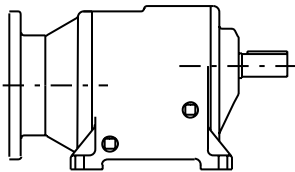
12A1 Are Standard

REDUCER POSITION

(Pick one and add to beltcase position)

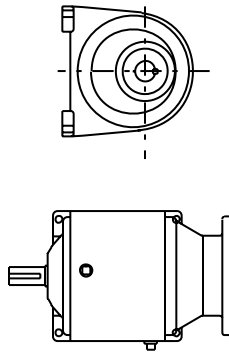
APG Double/Triple Reduction

A1



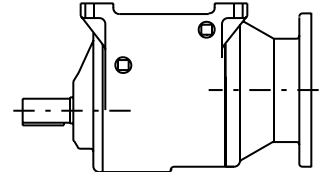
FLOOR MOUNT

A2



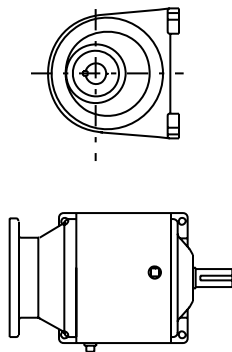
WEST WALL MOUNT

A3



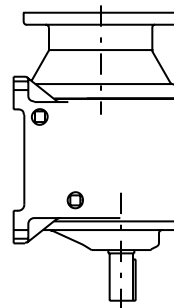
CEILING MOUNT

A4



EAST WALL MOUNT

A5



VERTICAL SHAFT DOWN

ULTIMA - Right Angle

0.75 Horsepower
8:1 Speed Range - TEFC

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs @ Max RPM	Output HP @ Max RPM
Max	Min						
740	92	7003721	1V16	5	III	55	0.64
493	61	7003738	1V16	7.5	III	80	0.63
370	46	7003745	1V16	10	III	107	0.63
291	36	7003752	1V16	12.7	III	134	0.62
247	31	7003769	1V16	15	II	158	0.62
206	26	7003776	1V16	18	II	187	0.61
185	23	7003783	1V16	20	II	208	0.61
148	18	7003790	1V16	25	II	251	0.59
123	15	7003806	1V16	30	I	281	0.55
93	12	7003813	1V16	40	I	368	0.54
74	9.2	7003820	1B16	50	III	443	0.52
62	7.7	7003837	1B16	60	III	623	0.61
53	6.6	7003844	1B16	70	III	727	0.61
43	5.3	7003851	1B16	86	II	879	0.60
37	4.6	7003868	1B16	101	II	998	0.58
31	3.8	7003875	1B16	121	I	1113	0.54
26	3.2	7003882	1B16	144	I	1325	0.54
23	2.8	7003899	1B16	162	I	1463	0.53
19	2.4	7003905	1B16	192	I	1733	0.53
15	1.9	7003912	1B21	240	I	2085	0.51
13	1.6	7003929	1B21	288	I	2404	0.49

5:1 Speed Range - TEFC

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs @ Max RPM	Output HP @ Max RPM
Max	Min						
644	129	7003936	1V16	5	III	63	0.64
430	86	7003943	1V16	7.5	III	92	0.63
320	64	7003950	1V16	10	III	124	0.63
250	50	7003967	1V16	12.7	III	156	0.62
215	43	7003974	1V16	15	II	182	0.62
180	36	7003981	1V16	18	II	214	0.61
160	32	7003998	1V16	20	II	232	0.59
130	26	7004001	1V16	25	II	276	0.57
107	22	7004018	1V16	30	I	324	0.55
80	16	7004025	1V21	40	II	402	0.51
65	13	7004032	1V21	50	I	475	0.49
54	11	7004049	1V21	60	I	560	0.48
46	9.2	7004056	1B16	70	III	836	0.61
38	7.6	7004063	1B16	86	II	962	0.58
32	6.4	7004070	1B16	101	II	1103	0.56
27	5.4	7004087	1B16	121	I	1261	0.54
23	4.5	7004094	1B16	144	I	1429	0.51
20	4	7004100	1B21	162	II	1576	0.5
17	3.3	7004117	1B21	192	II	1872	0.49
14	2.7	7004124	1B21	240	I	2148	0.46
11	2.2	7004131	1B21	288	I	2521	0.44

ULTIMA - Right Angle

1.0 Horsepower
8:1 Speed Range - TEFC

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs @ Max RPM	Output HP @ Max RPM
Max	Min						
740	92	7004148	1V16	5	III	72	0.85
493	61	7004155	1V16	7.5	III	107	0.84
370	46	7004162	1V16	10	II	143	0.84
291	36	7004179	1V16	12.7	II	177	0.82
247	31	7004186	1V16	15	II	210	0.82
206	26	7004193	1V16	18	I	245	0.8
185	23	7004209	1V16	20	I	273	0.8
148	18	7004216	1V16	25	I	332	0.78
123	15	7004223	1V21	30	II	393	0.77
93	12	7004230	1V21	40	I	518	0.76
74	9.2	7004247	1V21	50	I	622	0.73
62	7.7	7004254	1B16	60	II	828	0.81
53	6.6	7004261	1B16	70	II	930	0.78
43	5.3	7004278	1B16	86	I	1143	0.78
37	4.6	7004285	1B16	101	I	1308	0.76
31	3.8	7004292	1B21	121	II	1546	0.75
26	3.2	7004308	1B21	144	II	1815	0.74
23	2.8	7004315	1B21	162	I	2014	0.73
19	2.4	7004322	1B21	192	I	2355	0.72
15	1.9	7004339	1B21	240	I	2821	0.69

5:1 Speed Range - TEFC

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs @ Max RPM	Output HP @ Max RPM
Max	Min						
644	129	7004346	1V16	5	III	83	0.85
430	86	7004353	1V16	7.5	III	123	0.84
320	64	7004360	1V16	10	III	165	0.84
250	50	7004377	1V16	12.7	II	209	0.83
215	43	7004384	1V16	15	II	240	0.82
180	36	7004391	1V16	18	I	280	0.8
160	32	7004407	1V16	20	I	311	0.79
130	26	7004414	1V16	25	I	378	0.78
107	22	7004421	1V21	30	II	454	0.77
80	16	7004438	1V21	40	I	630	0.8
65	13	7004445	1V21	50	I	756	0.78
54	11	7004452	1B16	60	II	899	0.77
46	9.2	7004469	1B16	70	II	1028	0.75
38	7.6	7004476	1B16	86	I	1227	0.74
32	6.4	7004483	1B16	101	I	1418	0.72
27	5.4	7004490	1B21	121	II	1611	0.69
23	4.5	7004506	1B21	144	II	1849	0.66
20	4	7004513	1B21	162	I	1954	0.62
17	3.3	7004520	1B21	192	I	2292	0.6
14	2.7	7004537	1B21	240	I	2708	0.58

ULTIMA - Right Angle

1.5 Horsepower
8:1 Speed Range - TEFC

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs @ Max RPM	Output HP @ Max RPM
Max	Min						
740	92	7004544	1V16	5	II	106	1.24
493	61	7004551	1V16	7.5	II	157	1.23
370	46	7004568	1V16	10	II	210	1.23
291	36	7004575	1V16	12.7	I	262	1.21
247	31	7004582	1V16	15	I	309	1.21
206	26	7004599	1V21	18	II	365	1.19
185	23	7004605	1V21	20	II	405	1.19
148	18	7004612	1V21	25	II	498	1.17
123	15	7004629	1V21	30	I	593	1.16
103	13	7004636	1B16	36	II	699	1.14
93	12	7004643	1B16	40	II	763	1.12
74	9.2	7004650	1B16	50	I	954	1.12
62	7.7	7004667	1B16	60	I	1226	1.2
53	6.6	7004674	1B16	70	I	1395	1.17
43	5.3	7004681	1B21	86	II	1714	1.17
37	4.6	7004698	1B21	101	II	1978	1.15
31	3.8	7004704	1B21	121	I	2350	1.14
26	3.2	7004711	1B21	144	I	2723	1.11
23	2.8	7004728	1B28	162	II	2787	1.01
19	2.4	7004735	1B28	192	II	3238	0.99
15	1.9	7004742	1B28	240	II	3965	0.97

5:1 Speed Range - TEFC

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs @ Max RPM	Output HP @ Max RPM
Max	Min						
644	129	7004759	1V16	5	II	118	1.21
430	86	7004766	1V16	7.5	II	174	1.19
320	64	7004773	1V16	10	II	232	1.18
250	50	7004780	1V16	12.7	I	295	1.17
215	43	7004797	1V16	15	I	337	1.15
180	36	7004803	1V21	18	II	399	1.14
160	32	7004810	1V21	20	II	437	1.11
130	26	7004827	1V21	25	II	528	1.09
107	22	7004834	1V21	30	I	689	1.17
90	18	7004841	1B16	36	III	812	1.16
80	16	7004858	1B16	40	II	890	1.13
65	13	7004865	1B16	50	I	1076	1.11
54	11	7004872	1B16	60	I	1272	1.09
46	9.2	7004889	1B16	70	I	1466	1.07
38	7.6	7004896	1B21	86	II	1775	1.07
32	6.4	7004902	1B21	101	II	2068	1.05
27	5.4	7004919	1B21	121	I	2358	1.01
23	4.5	7004926	1B21	144	I	2773	0.99
20	4	7004933	1B28	162	II	3025	0.96
17	3.3	7004940	1B28	192	II	3476	0.91
14	2.7	7004957	1B28	240	II	4015	0.86

ULTIMA - Right Angle

2.0 Horsepower

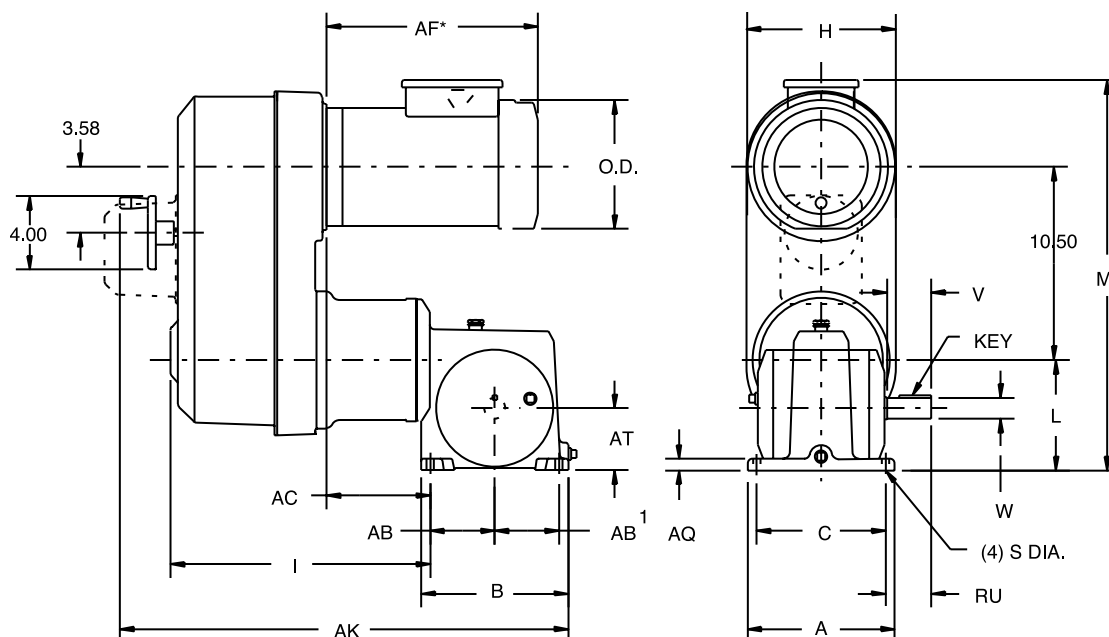
8:1 SPEED RANGE - NOT AVAILABLE

5:1 Speed Range - TEFC

Speed Range		Part Number	Size	Ratio	Gear Class	Output Torque In/Lbs @ Max RPM	Output HP @ Max RPM
Max	Min						
644	129	7004964	1V16	5	II	166	1.7
430	86	7004971	1V16	7.5	I	249	1.7
320	64	7004988	1V16	10	I	335	1.7
250	50	7004995	1V21	12.7	II	421	1.67
215	43	7005008	1V21	15	II	487	1.66
180	36	7005015	1V21	18	I	574	1.64
160	32	7005022	1V21	20	I	638	1.62
130	26	7005039	1V21	25	I	776	1.6
107	22	7005046	1B16	30	II	990	1.68
90	18	7005053	1B16	36	II	1169	1.67
80	16	7005060	1B16	40	I	1292	1.64
65	13	7005077	1B21	50	II	1571	1.62
54	10.8	7005084	1B21	60	II	1867	1.6
46	9.2	7005091	1B21	70	II	2178	1.59
38	7.6	7005107	1B21	86	I	2621	1.58
32	6.4	7005114	1B21	101	I	3092	1.57
27	5.4	7005121	1B28	121	II	3548	1.52
23	4.5	7005138	1B28	144	II	4202	1.5
20	4	7005145	1B28	162	I	4632	1.47
17	3.3	7005152	1B28	192	I	5424	1.42
14	2.7	7005169	1B28	240	I	6396	1.37

ULTIMA - Right Angle

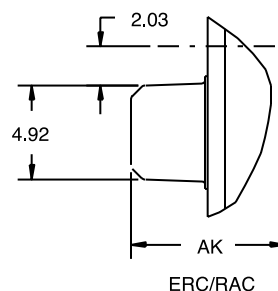
SIZE 1 - VERTICAL - ASSEMBLY 12K1 SHOWN



Size	A	B	C	H	I	L	M	S	V	W	AB	AB ¹	AC	AK		AQ
														HW	ERC	
1V16	5.50	6.88	4.50	8.13	13.87	4.50	19.72	0.41	2.00	0.8745/0.8750	3.00	3.00	5.38	23.05	23.89	0.63
1V21	8.00	8.00	7.00		14.12	6.00	21.22		2.50	1.1245/1.1250	3.50	3.50	5.63	24.37	25.21	
1B16	7.75	10.00	6.50		14.00	5.00	20.22	0.53	3.25	1.4995/1.5000	5.50	5.50	5.50	26.26	27.10	
1B21	9.25	12.25	8.00		14.12	6.63	21.85		4.56	2.1240/2.1250	7.00	4.00	5.63	28.50	29.34	
1B28	11.12	16.12	9.00		14.78	8.63	23.84		4.56	2.1240/2.1250	9.06	4.94	6.28	32.59	33.43	

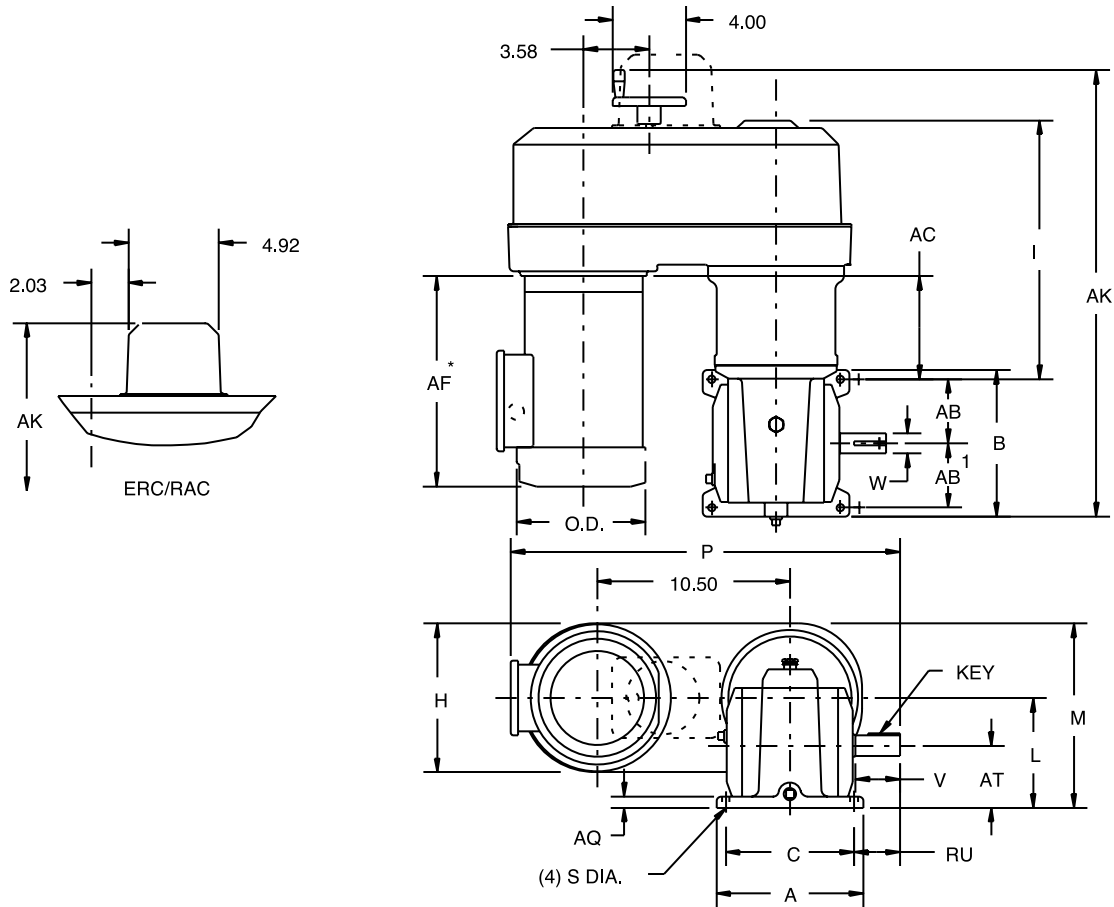
Size	AT	RU	Key
1V16	2.50	2.31	3/16" SQ. X 1.25
1V21	3.38	2.50	1/4" SQ. X 1.75
1B16	3.00	2.87	
1B21	4.00	4.00	3/8" SQ. X 2.50
1B28	5.12	6.07	1/2" SQ. X 3.50

	0.75 HP 143TC	1 HP 145TC	1.50 HP 145TC	2 HP 145TC
AF*	9.42	10.42	10.42	10.86
O. D.	7.13	7.13	7.13	7.13



NOTE:

- * Dimensions shown are for stock TEFC enclosure motors only.
- All dimensions are in inches.

ULTIMA - Right Angle**SIZE 1 - HORIZONTAL - ASSEMBLY 9K1 SHOWN**

Size	A	B	C	H	I	L	M	P	S	V	W	AB	AB!	AC	AK	
															HW	ERC
1V16	5.50	6.88	4.50	8.13	13.87	4.50	8.57	19.72	0.41	2.00	0.8745/0.8750	3.00	3.00	5.38	23.05	23.89
1V21	8.00	8.00	7.00		14.12	6.00	10.07	21.22		2.50	1.1245/1.1250	3.50	3.50	5.63	24.37	25.21
1B16	7.75	10.00	6.50		14.00	5.00	9.07	20.22				5.50		5.50	26.26	27.10
1B21	9.25	12.25	8.00		14.12	6.63	10.70	21.85		3.25	1.4995/1.5000	7.00	4.00	5.63	28.50	29.34
1B28	11.13	16.13	9.00		14.78	8.63	12.70	23.84		4.56	2.1240/2.1250	9.06	4.94	6.28	32.59	33.43

AQ	AT	RU	Key
0.63	2.50	2.31	3/16" SQ. X 1.25
	3.38	2.50	1/4" SQ. X 1.75
	3.00	2.88	
0.75	4.00	4.00	3/8" SQ. X 2.50
1.00	5.12	6.06	1/2" SQ. X 3.50

	0.75 HP 143TC	1 HP 145TC	1.50 HP 145TC	2 HP 145TC
AF*	9.42	10.42	10.42	10.86
O. D.	7.13	7.13	7.13	7.13

NOTE:

- * Dimensions shown are for stock TEFC enclosure motors only.
- Assembly 3L1 also available.
- Output shaft must be opposite the beltcase.

ULTIMA - Right Angle 12K1 Is Standard

BELT CASE POSITION

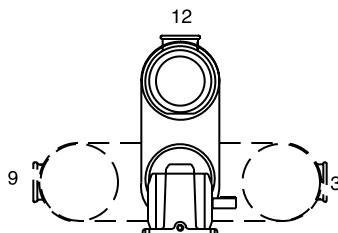
(Pick one and turn page for reducer position)

EXAMPLE:

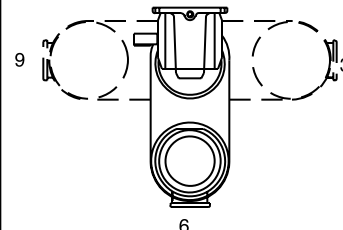
Standard assembly for a floor mount is 12K1 where 12 is the beltcase position, and K1 is the reducer position.

NOTE:

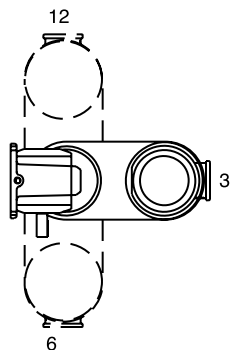
Motor cannot be on the same side as the output shaft.
EXAMPLE: 3K1 is not available.



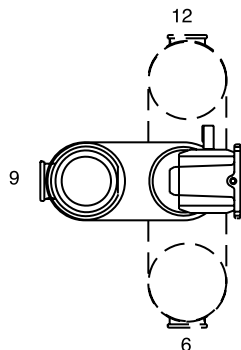
FLOOR MOUNT



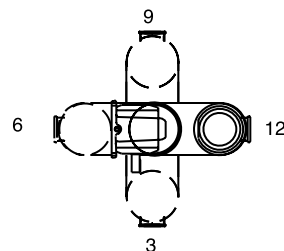
CEILING MOUNT



WEST WALL MOUNT



EAST WALL MOUNT



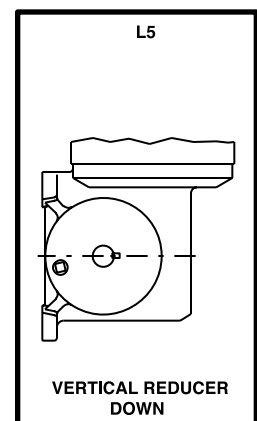
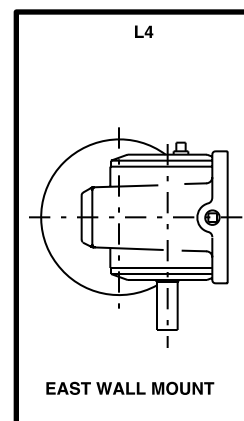
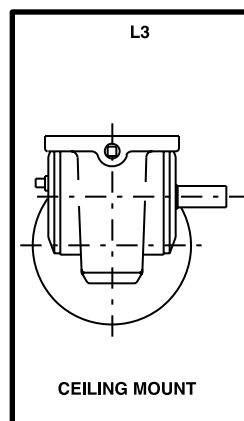
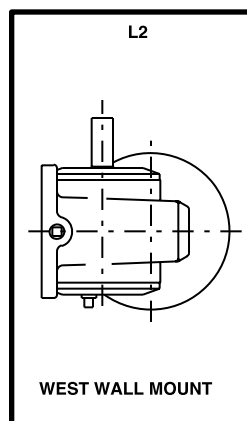
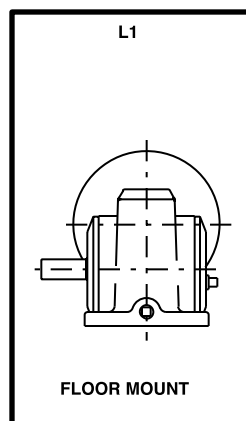
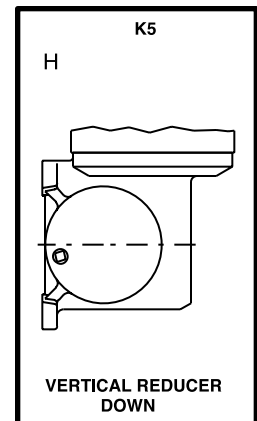
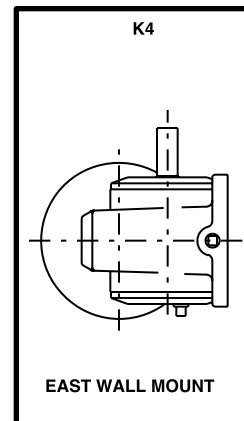
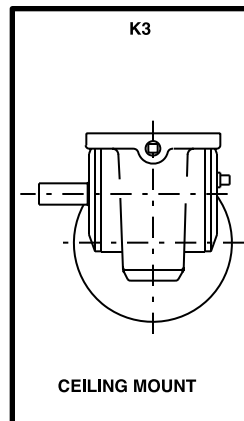
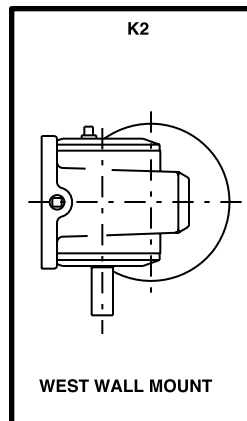
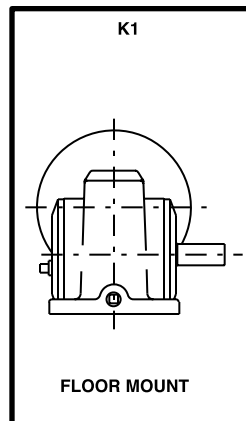
VERTICAL SHAFT DOWN

ULTIMA - Right Angle

12K1 Is Standard

REDUCER POSITION

(Pick one and add to beltcase position)



H Output shaft is located on the concealed side of these units.

ULTIMA - NEMA C-Face Output

REEVES ULTIMA drives with NEMA C-face outputs allow for a variety of stock components to be used in an adjustable speed system. Any double C-face brake or C-face reducer can be mounted on the output of the ULTIMA drive. These units offer a 5:1 speed range up to 10 HP. Many standard DODGE and MASTER products are available for use on ULTIMA drives. See the DODGE Catalogs for options.

To select an output component to mount on the end of the ULTIMA drive C-face output, use reducer or brake ratings tables and assume an input speed of 3220 rpm. Select a component that will carry the torque at 3220 rpm listed in the chart below. Generally, rating tables will show a 3600 rpm input choice which may be used for 3220 rpm applications.

C-Face ULTIMA Selection Table

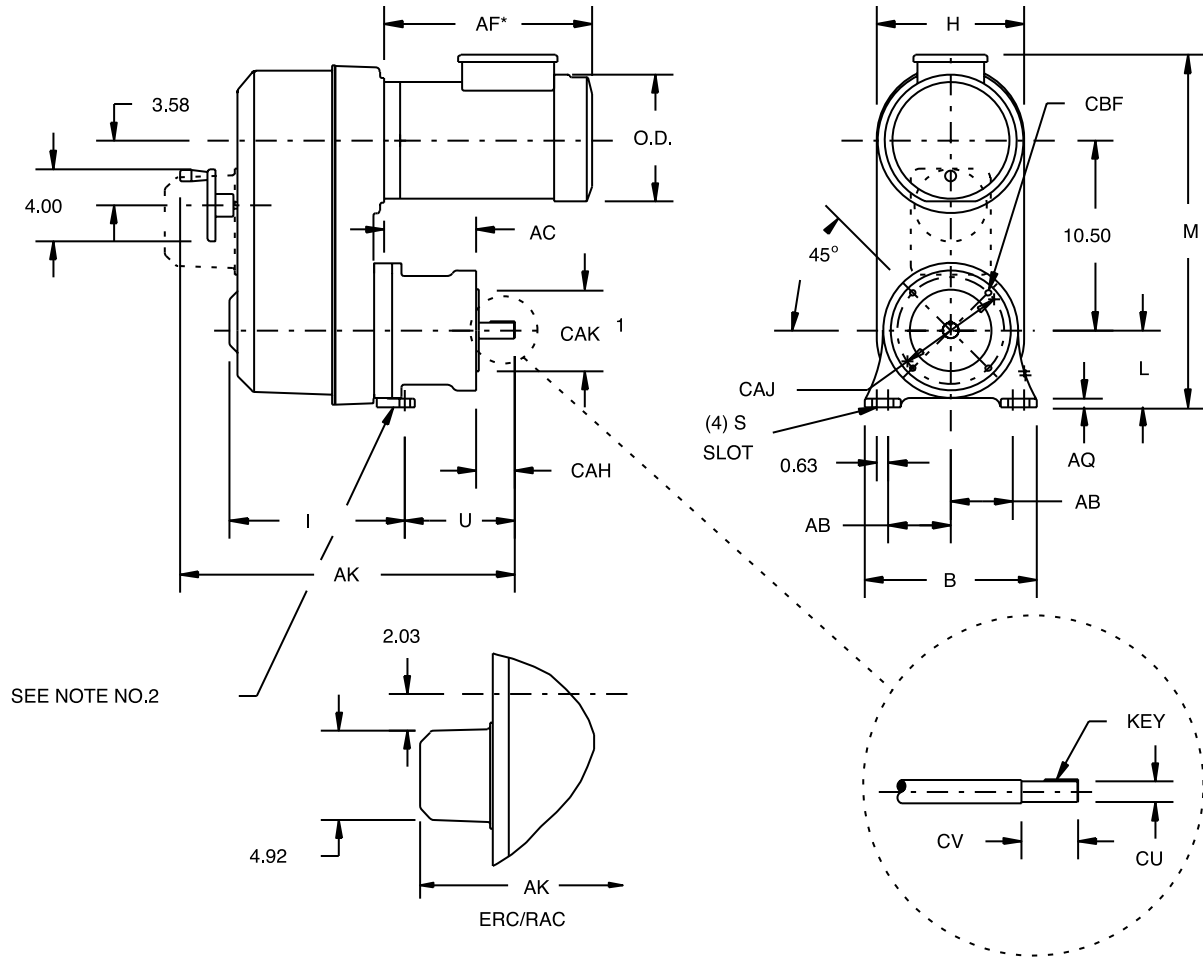
HP	Size	Output Frame	3220 rpm in/lb out	2500 rpm in/lb out	1750 rpm in/lb out	1430 rpm in/lb out	1170 rpm in/lb out	Part Number	Weight
1/8.5	1N00	140TC	16	22	31	37	46	7005176	130
1.5/1.41	1N00	140TC	27	37	51	62	72*	7005183	134
2/1.98	1N00	140TC	39	51	71	72*	72*	7005190	141
3/2.83	2N00	180TC	55	71	102	125	152	7005206	235
5	2N00	180TC	98	126	180	180*	180*	7005213	245
7.5	3N00	210TC	146	189	270	331	360*	7005220	360
10	3N00	210TC	196	252	360	360*	360*	7005237	385

When speed reducers are used on the output, you can determine the delivered torque by multiplying the torque value in the chart above by the ratio of the reducer x the efficiency of the reducer.

*Unit capability is less than specified H. P. at selected speed. If specified H. P. is required at selected speed, upsize unit to next larger case size.

MOUNTING POSITION

REEVES ULTIMA drives with NEMA C-face output are equipped with an auxiliary foot. The foot is positioned between the beltcase and C-face output. For other mounting requirements the foot can be rotated 90° or 180° in either direction.

ULTIMA - NEMA C-Face Output**Size 1 - NEMA 140TC - Face Output**

Size	B	H	I	L	M	S	U	AB	AC	AK		AQ	CU	CV	CAH	CAJ
										HW	ERC/RAC					
1N00	9.50	8.13	9.67	4.25	19.47	0.50	5.94	3.44	5.06	18.77	19.64	0.50	0.8750/0.8744	2.38	2.13	5.88

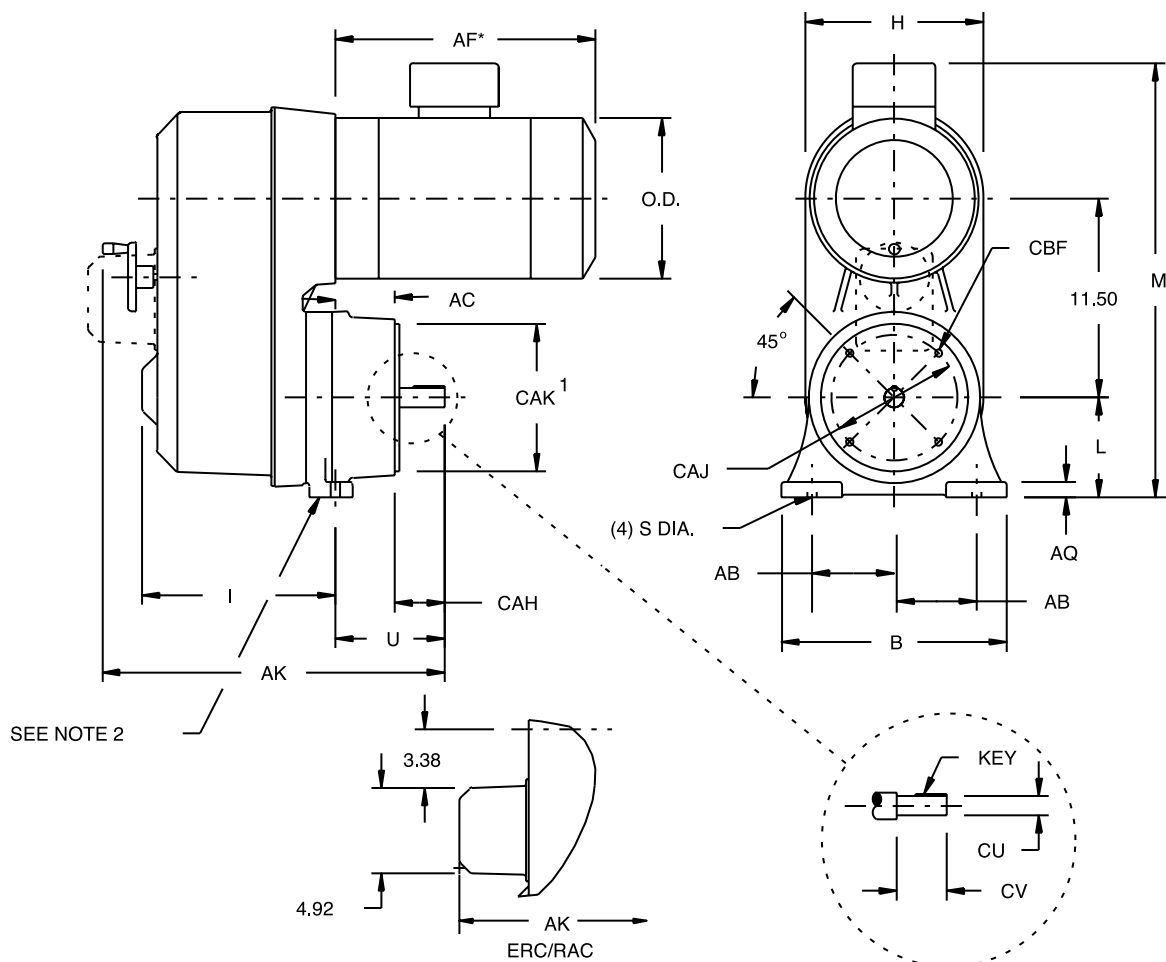
Size	CAK1	CBF	Key
1N00	4.50	0.38-16	3/16" SQ. X 1.38 LG.

	0.75 HP 143TC	1 HP 145TC	1.50 HP 145TC	2 HP 145TC
AF*	9.42	10.42	10.42	10.86
O. D.	7.13	7.13	7.13	7.13

NOTE:

- * Dimensions shown are for stock TEFC enclosure motors only.
- Attach unit to driven load. Shim auxiliary feet as required to support beltcase.
- All dimensions are in inches.

ULTIMA - NEMA C-Face Output SIZE 2 - NEMA 180TC - FACE OUTPUT



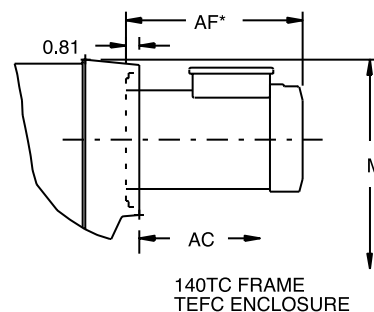
Size	B	H	I	L	M		S	U	AB	AC	AK		AQ	CU	CV	CAH	CAJ
					140TC	180TC					HW	ERC/RAC					
2N00	13.00	10.26	11.15	5.75	22.00	25.09	0.50	6.06	4.75	3.44	19.50	20.34	0.88	1.1250/1.1244	2.88	2.63	7.25

Size	CAK1	CBF	Key
2N00	8.50	0.50-13	1/4" SQ. X 1.75 LG.

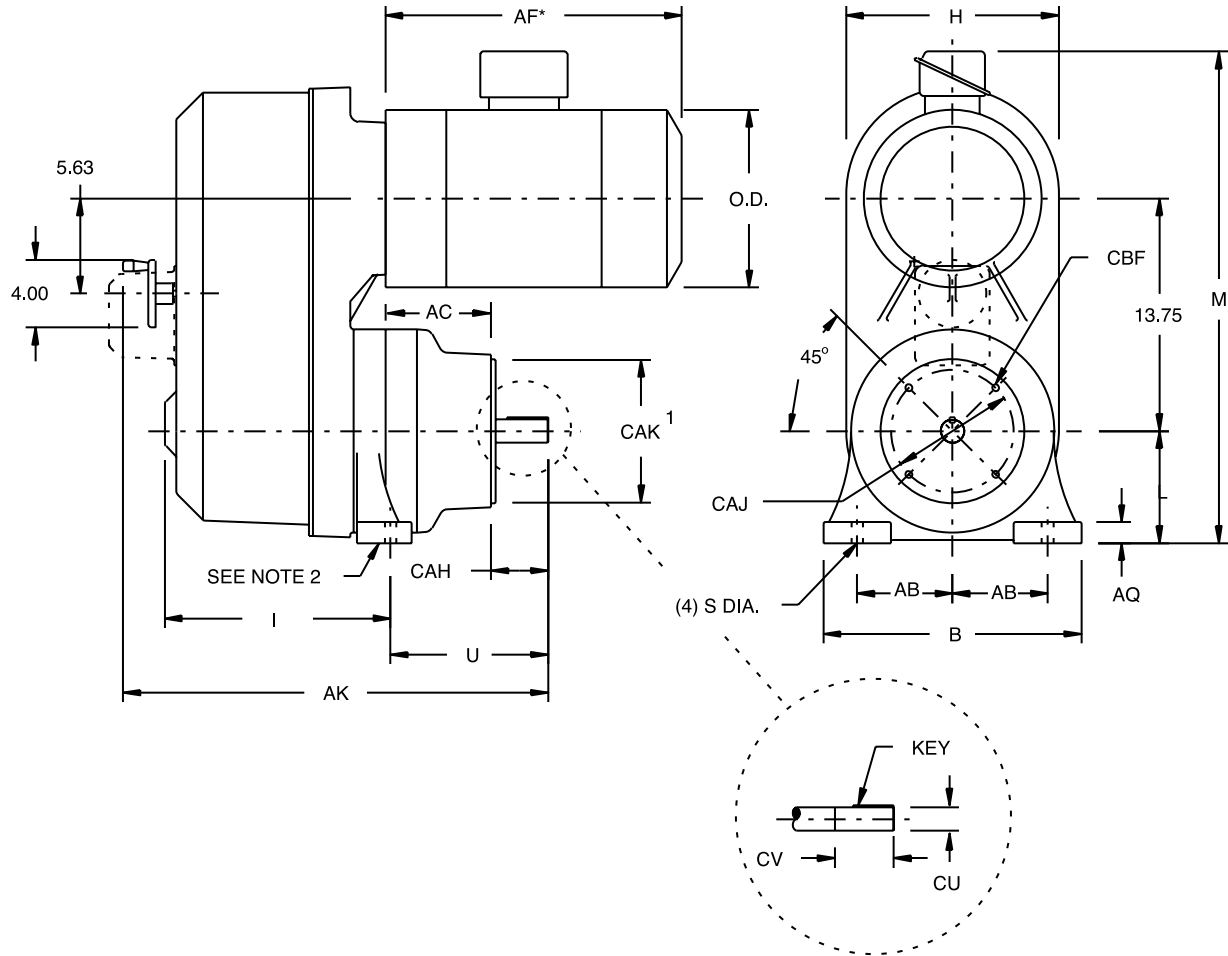
	2 HP 145TC	3 HP 180TC	5 HP 180TC
AF*	10.86	15.01	15.01
O. D.	7.13	9.25	9.25

NOTE:

- * Dimensions shown are for stock TEFC enclosure motors only.
- Attach unit to driven load. Shim auxiliary feet as required to support beltcase.
- All dimensions are in inches.



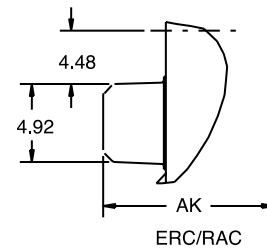
ULTIMA - NEMA C-Face Output SIZE 3 - NEMA 210TC - FACE OUTPUT



Size	B	H	I	L	M		S	U	AB	AC	AK		AQ	CU	CV	CAH	CAJ
					140TC	180TC					HW	ERC					
3N00	15.25	12.55	13.28	6.63	28.19	28.07	0.63	9.07	5.63	6.24	24.82	25.66	1.25	1.3750/1.3744	3.38	3.13	7.25

Size	CAK1	CBF	Key
3N00	8.50	0.50-13	5/16" SQ. X 2.38 LG.

	5 HP 180TC	7.50 HP 210TC	10 HP 210TC
AF*	15.01	17.51	17.51
O. D.	9.25	10.5	10.5



NOTE:

- * Dimensions shown are for stock TEFC enclosure motors only.
- Attach unit to driven load. Shim auxiliary feet as required to support beltcase.
- All dimensions are in inches.

ULTIMA

Motor Options: A variety of Reliance C-face motors are available off the shelf for use on ULTIMA drives. Examples include corrosion resistant (XT), Easy Clean, high efficiency (XE), and explosion-proof (XP). 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 ULTIMA drivemotors are 1750 rpm, 3 phase, 230/460 volt, 60 Hz, TEFC, 1.15 service factor, Class F insulated, Design B, C-face footless.

Electric Remote Control: The ERC offers an easy way to change speeds from a remote location. The ERC option includes a push-button station, and a servo motor that operates the shifting mechanism in the beltcase. This option is ideal where open loop remote operation is required. When closed loop control is required, refer to the REEVES Automatic Controller.

NOTE: Explosion-Proof ERC not available.

Speed Indicating Handwheel: This turns-counting indicator provides a relative indication of output speed and offers excellent resetability. Indicator is gravity-dependent and is not useable on assemblies where the motor shaft/variable shaft is inclined greater than 30°.

Programmable Digital Tachometer: Includes 5 digit, programmable LCD (Liquid Crystal Display) indicator with .6 inch high digits and pickup unit (60 tooth pulse wheel and magnetic reluctance sensor). Indicator is powered by a replaceable, internal battery with a 5 year life. Pickup is mounted inside the beltcase and remains in place even during belt changes. Detailed indicator programming instructions are included. The part number below includes the installed sensor and pulse wheel and the separate digital indicator. The indicator may be remotely mounted up to 500 feet away with (user supplied) 2-conductor cable. To order, use the part number below in addition to the basic ULTIMA part number.

LED Tachometer Indicator: Where customer requires either a pre-programmed indicator, or a LED (Light Emitting Diode) display, a programmable, 4-digit LED indicator with .5 inch high digits is available on special order. Requires 115 VAC. Same magnetic reluctance sensor and 60 tooth pulse wheel as supplied with the standard LCD Programmable Digital Indicator. Consult Customer Service or Applications Engineering.

REEVES Automatic Controller: The RAC adds closed loop electronic speed control capability to the ULTIMA drive. It allows either local (panel mounted speed pot) or remote control. It will interface the ULTIMA drive to any standard analog electronic process control scheme such as 4-20 mA or 0-10 VDC. Additionally, the RAC is a self-contained closed loop control system that maintains $\pm 1\%$ ULTIMA drive output speed regulation over the full rated load range.

The RAC includes an ULTIMA drive-mounted shifting motor and limit switch arrangement, a magnetic reluctance tach pickup and mounting and a separately mounted control head in a NEMA 4X enclosure.

A programmable digital tachometer readout may be added to the AC.

For additional information, contact REEVES Applications Engineering at (812) 376-1252.

Flanged output reducers and extremely slow speed ranges are available on a made to order basis through REEVES Application Engineering (812)376-1252.

Chromalife Discs: Where long term storage or exposure to a corrosive atmosphere is anticipated, this feature protects disc faces by chrome plating the surface.

Tachometer Pickup: Same magnetic reluctance sensor and 60 tooth pulse wheel as supplied for the Programmable Digital Indicator, less indicator.

Brakes: A variety of clutches and brakes are available for use on ULTIMA drives with C-face outputs. For additional information refer to page D6-30.

E-Z KLEEN Package: This option includes a Reliance 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.

Beltcase Retrofit Kits: Converting a MOTODRIVE beltcase to an ULTIMA beltcase -

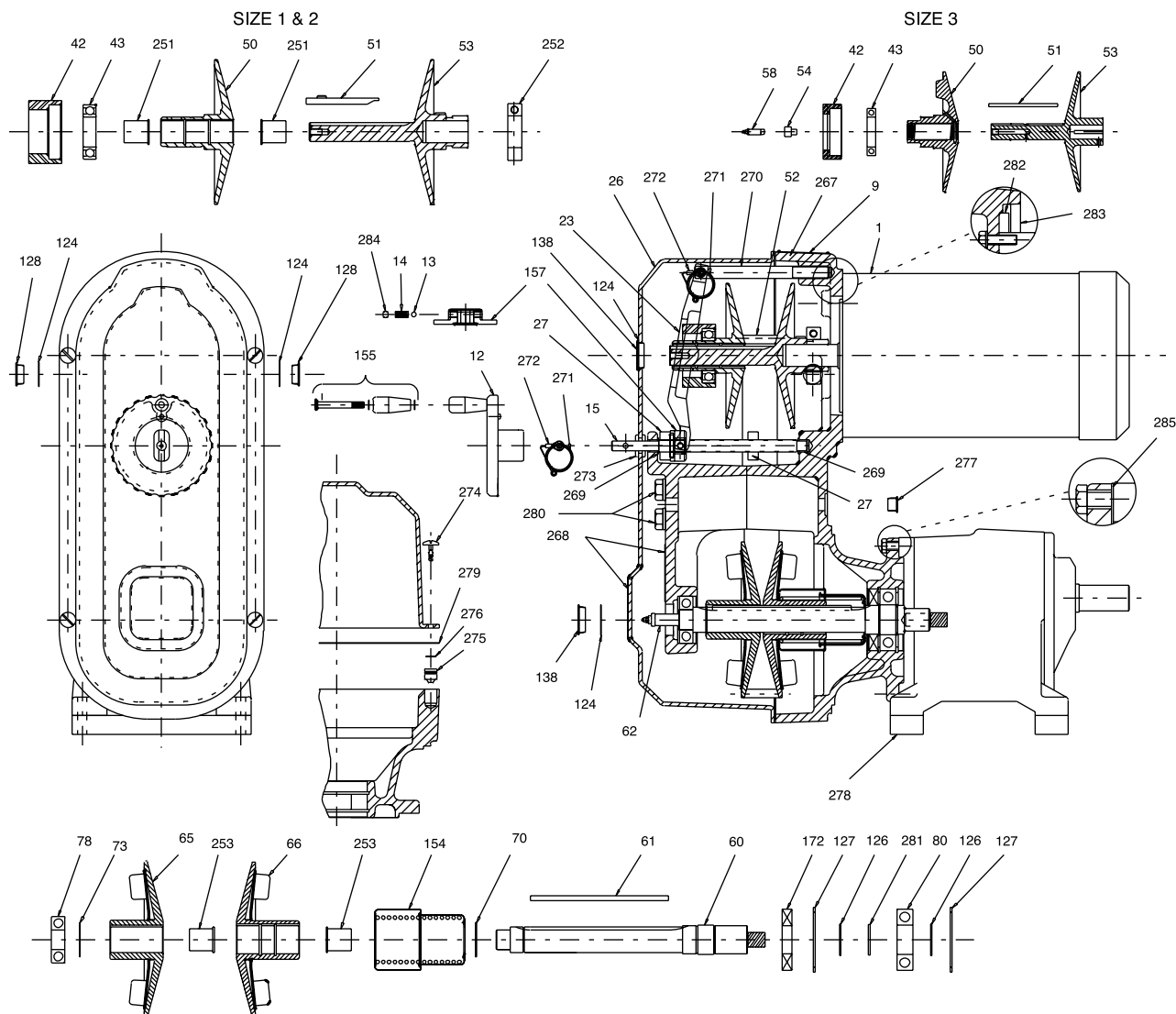
Retrofit kits are now available to convert a REEVES MOTODRIVE unit to the ULTIMA design. These kits are ideal to modify an existing MOTODRIVE to provide the ease and simplicity of performing routine maintenance the ULTIMA Drive permits.

The kit replaces a MOTODRIVE 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 MOTODRIVE can continue to be used.

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

When ordering, be sure to include nameplate data from the existing MOTODRIVE so a Specification Change (MFC) can be used. A new stamped nameplate will be included in the kit and will ensure that correct replacement parts are provided in the future.

ULTIMA Drive with APG Parallel Reducer - Sizes 1-3



1	MOTOR	65	FIXED VARIABLE DISC	267	BACKPLATE & CONTROL ASSEMBLY
9	NAMEPLATE	66	SLIDING VARIABLE DISC	268	CAUTION PLATE
12	HANDWHEEL	70	RETAINING RING	269	BUSHING
13	FRICTION CATCH	73	RETAINING RING	270	SHIFTING YOKE ROD
14	FRICTION SPRING	78	BEARING	271	QUICK DISCONNECT PIN
15	SHIFTING SCREW	80	BEARING	272	PIN WIRE
23	SHIFTING YOKE	124	GASKET	273	SHIFTING SCREW GROMMET
26	COVER	126	RETAINING RING	274	STUD 1/4 TURN
27	STOP NUT	127	RETAINING RING	275	RECEPTACLES 1/4 TURN
42	THRUST BEARING HOUSING	128	PLUG BUTTON	276	RETAINER STUD 1/4 TURN
43	THRUST BEARING	138	PLUG BUTTON (SIZE 3 ONLY)	277	TACH WIRE PLUG
50	SLIDING CONSTANT DISC	154	SPRING ASSEMBLY	278	SPACER BLOCK (APG NO. 2 ONLY)
51	DISC KEY (CONSTANT)	155	"HANDLE, PIN & WASHERS"	279	COVER GASKET
52	BELT	157	SHIFTING NUT	280	CONTROL BRACKET BOLT
53	FIXED CONSTANT DISC	172	SEAL	281	SUPPORT RING (SIZE 3 ONLY)
54	LUB FITTING ADAPTOR (SIZE 3 ONLY)	251	DISC BUSHING (CONSTANT) (SIZE 1 & 2 ONLY)	282	MOTOR SHIELD (SIZE 2 - 140TC)
58	LUB FITTING (SIZE 3 ONLY)	252	DISC COLLAR (SIZE 1 & 2 ONLY)	283	MOTOR GASKET (SIZE 2 - 140TC)
60	VARIABLE SHAFT & PINION ASSEMBLY	253	DISC BUSHING (VARIABLE) (SIZE 1 & 2 ONLY)	284	SET SCREW
61	DISC KEY (VARIABLE)			285	SHIELD (APG 4 DOUBLE AND APG 5 DOUBLE ONLY) PARTS LIST
62	LUB FITTING (SIZE 3 ONLY)				

ULTIMA Drive with APG Parallel Reducer - Sizes 1-3

Ref	Qty	Part Numbers By Size			Description
		1	2	3	
1	1	(1)	(1)	(1)	MOTOR
9	1	60502146BB	60502146BB	60502146BB	NAMEPLATE
12	1	60501451F	60501451F	60501451F	HANDWHEEL
13	2	F01464	F01464 (10)	F01464 (10)	FRICTION CATCH
14	2	41511062E	41511062E(10)	41511062E(10)	SPRING
15	1	60503747B	60503747B	60503747E	SHIFTING SCREW
23	1	70283352A	70283352B	70283352C	SHIFTING YOKE
26	1	08950405C	08950405E	08950405G	COVER
27	2	P6395030	P6395030	41510605D	STOP NUT
42	1	60501682B	60501682C	60501682D	THRUST BEARING HOUSING
43	1	07914701H	07914701N	07914701S	THRUST BEARING (7)
50	1	(2)	(2)	70280802F	SLIDING CONSTANT DISC
51	1	41510439N	41510439P	D6040019	KEY (7)
52	1	60503629C	60503629E	60503629H	BELT
53	1	(2)	(2)	(2)	FIXED DISC CONSTANT
54	1 OR 0	-	-	D0070038	LUB FITTING ADAPTOR
58	1 OR 0	-	-	07901913D	LUB FITTING
60	1	(3)	(3)	(3)	SHAFT/PINION ASSEMBLY
61	1	41510434CP	D6040012	D6040013	DISC KEY (4)
62	1 OR 0	-	-	07901913D	LUB FITTING
65	1	60500707T	70280701C	D4100001	FIXED DISC VARIABLE
66	1	41511265TT	41511265TW	D4440001	SLIDING DISC VARIABLE (5)
70	1	F04018	F04055	F04047	RETAINING RING
73	1	F04018	F04055	F04047	RETAINING RING
78	1	07914702V	07914702AG	07914702BH	BEARING
80	1	07914702AC	07914702CR	07914702AW	BEARING
124	2	D5450009	D5450026	D5450026	GASKET
126	2	F04008	F04021	F4037/F4078	RETAINING RING (#3-1 ea.)
127	2	F04054	F04009	F04033	RETAINING RING
128	2	FZ3606	FZ3605	FZ3605	PLUG BUTTON
138	1 OR 0	-	-	FZ3605	PLUG BUTTON
154	1 OR 0	60500351M	D1380042	D1380007	SPRING (8:1)
155	1	41511265JH	41511265JH	41511265JH	HANDLE, PIN, WASHER KIT
157	1	60501902B	60501902B	60501902C	SHIFTING NUT
172	1	41162701DX	41162701DY	41162701EA	SEAL
251	1	41511265WB	41511265WC	-	BUSHING KIT (7)
252	1	41510116x	41510116Y	-	DISC COLLAR (7)
253	1	41511265MG	41511265MH	-	BUSHING KIT (6)
267	1 OR 0	08951219F	-	-	BACKPLATE (#2 APG ONLY)
267	1 OR 0	08951219K	08951219M	08951219W	BACKPLATE (#3 & 4 APG)
267	1 OR 0	08951219P	08951219P	08951219Y	BACKPLATE (#5 APG ONLY)
268	2	60502149D	60502149D	60502149D	CAUTION PLATE
269	2	41510062CG	41510062CG	41510062CG	BUSHING, SHIFT SCREW
270	1	41510833Y	41510833Y	41510833AA	SHIFTING YOKE ROD
271	2	41511411C	41511411C	41511411C	PIN
272	2	41511411B	41511411B	41511411B	PIN WIRE
273	1	41511226J	41511226J	41511226J	GROMMET
274	4	41511321AA	41511321AA	41511321AC	STUD (9)
275	4	41511323D	41511323D	41511323E	RECEPTACLE (9)
276	4	41510777A	41510777A	41510777B	RETAINER (9)
277	1 OR 0	FZ3602	FZ3602	FZ3602	TACH WIRE PLUG
278	4 OR 0	41511367J	-	-	RISER BLOCK (#2 APG)
278	4 OR 0	-	60226508AJ	-	RISER BLOCK (#3 APG)
278	4 OR 0	-	60226508AK	41511367L	RISER BLOCK (#4 APG)
278	4 OR 0	-	-	41511367M	RISER BLOCK (#5 APG)
279	1	70281321A	70281321B	70281321C	COVER GASKET
280	4	41510898AC	41510898AD	41510898AE	BOLT
281	1 OR 0	-	-	41511158AC	SUPPORT RING (SIZE 3)
282	1 OR 0	-	60503749A	-	SHIELD (SIZE 2 - 140TC)
283	1 OR 0	-	60501326A	-	GASKET (SZ.2-140TG)(E-Z KLEEN)
284	1 OR 2	400135	400135(10)	400135 (10)	SET SCREW
285	0 OR 1	-	-	60503749C (11)	SHIELD

* Recommended Spare Parts

(1) Determine from motor nameplate or contact Renewal Parts with unit identification number.	(5) Includes Reference Number 253 Bushings Installed and Reference Number 61 Key.	(8) For Reducer Parts refer to applicable pages in Section M of H103 Data Book.
(2) Refer to section E of H 103 Data Book.	(6) Included with Reference Number 66 sliding Variable Disc Kit.	(9) Size 2 uses quantity 6, size 3 uses quantity 8.
(3) Refer to section E of H 103 Data Book.	(7) Included in Constant Disc Kit for sizes 1 and 2 only.	(10) Sizes 2 and 3 quantity require quantity 2.
(4) Included with Reference Number 60 Variable Shaft and Reference Number 66 Variable Disc Kit.	Order separately for size 3.	(11) Use for APG 4 & 5 double reducers only.

ULTIMA Drive with Right Angle Reducer - Size 1

Introduction

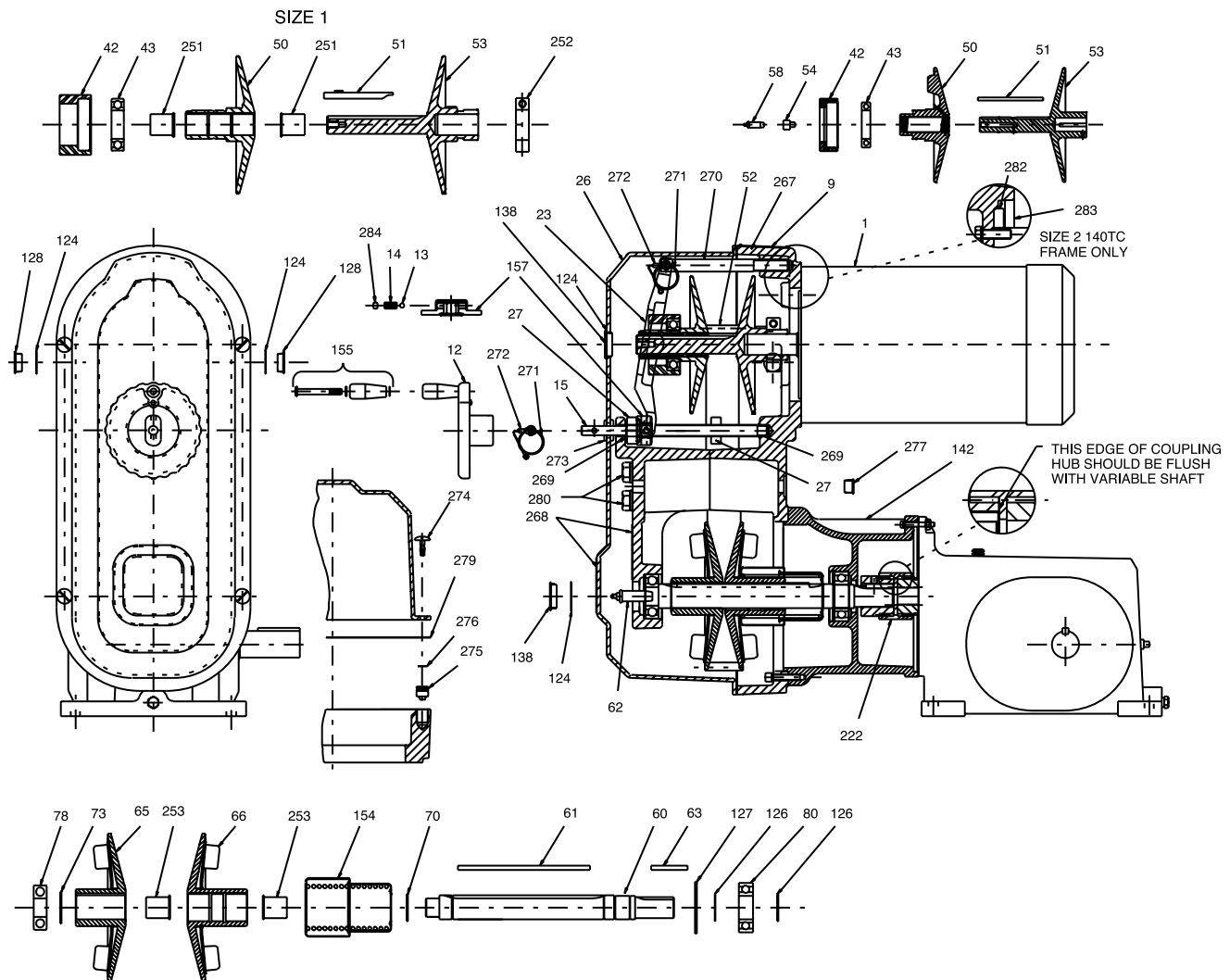
DODGE APG

MASTER XL

DODGE Combination TIGER

REEVES MOTODRIVE

REEVES ULTIMA



1	MOTOR	65	FIXED VARIABLE DISC	267	BACKPLATE & CONTROL ASSEMBLY
9	NAMEPLATE	66	SLIDING VARIABLE DISC	268	CAUTION PLATE
12	HANDWHEEL	70	RETAINING RING	269	BUSHING
13	FRICTION CATCH	73	RETAINING RING	270	SHIFTING YOKE ROD
14	FRICTION SPRING	78	BEARING	271	QUICK DISCO NN ECT PIN
15	SHIFTING SCREW	80	BEARING	272	PIN WIRE
23	SHIFTING YOKE	124	GASKET	273	SHIFTING SCREW GROMMET
26	COVER	126	RETAINING RING	274	STUD 1/4 TURN
27	STOP NUT	127	RETAINING RING	275	RECEPTACLES 1/4 TURN
42	THRUST BEARING HOUSING	128	PLUG BUTTON	276	RETAINER STUD 1/4 TURN
43	THRUST BEARING	142	XL ADAPTOR	277	TACH WIRE PLUG
50	SLIDING CONSTANT DISC	154	SPRING ASSEMBLY	279	COVER GASKET
51	DISC KEY (CONSTANT)	155	HANDLE PIN & WASHERS	280	CONTROL BRACKET BOLT
52	BELT	157	SHIFTING NUT	282	MOTOR SHIELD
53	FIXED CONSTANT DISC	222	COUPLING ASSEMBLY	283	MOTOR GASKET
60	VARIABLE SHAFT & PINION ASSEMBLY	251	DISC BUSHING (CONSTANT)	284	SET SCREW
61	DISC KEY (VARIABLE)	252	DISC COLLAR		
63	VARIABLE SHAFT OUTPUT KEY	253	DISC BUSHING (VARIABLE)		

ULTIMA Drive with Right Angle Reducer

XL 12-16-21-28 - Size 1-3

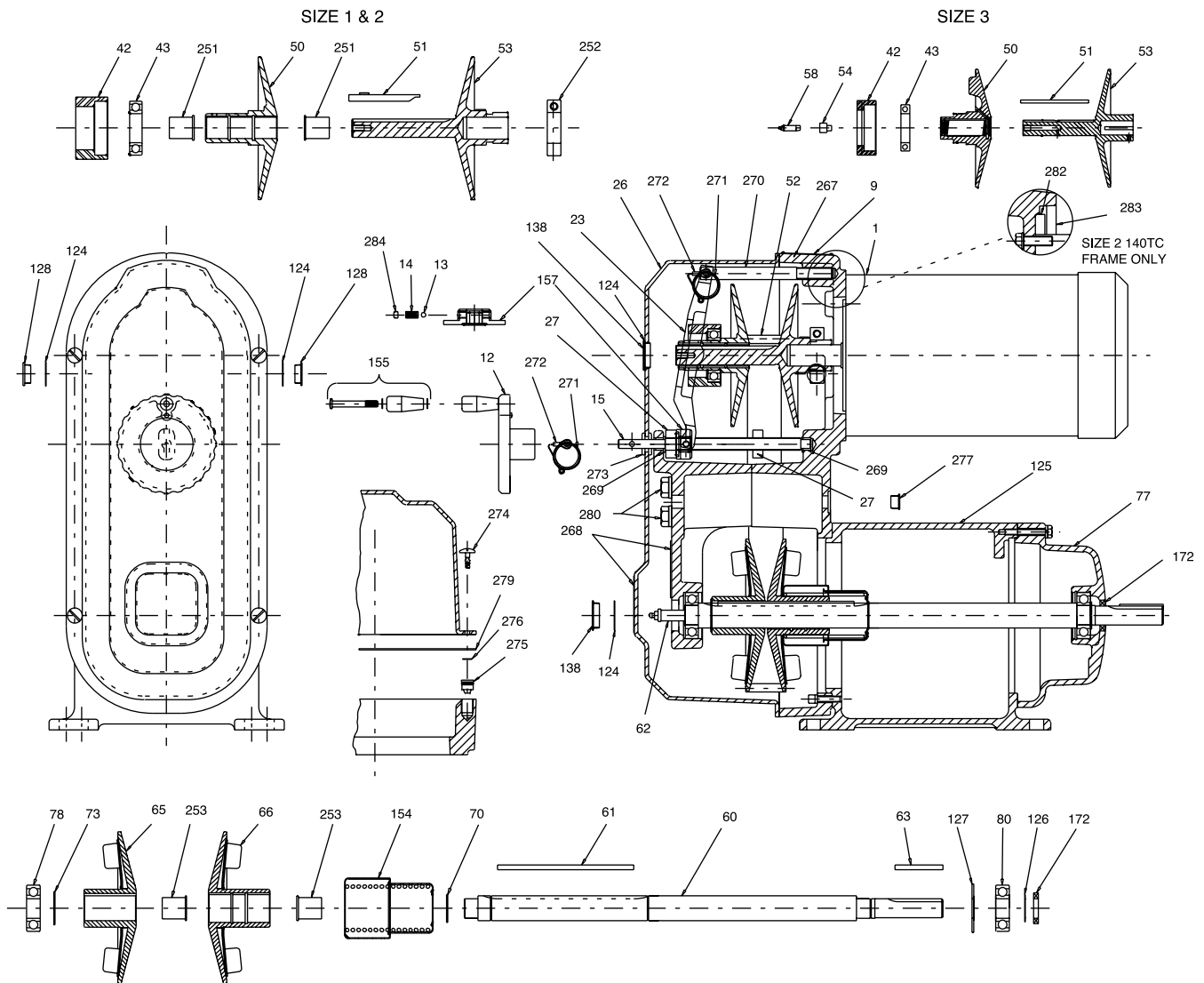
Ref. No.	Qty	Part Number by Size			Description
		1	2	3	
1	1	(1)	(1)	(1)	MOTOR
9	1	60502146BC	60502146BC	60502146BC	NAMEPLATE
12	1	60501451F	60501451F	60501451F	HANDWHEEL
13	2	F01464	F01464	F01464	FRICTION CATCH
14	2	41511062E	41511062E	41511062E	FRICTION SPRING
15 *	1	60503747B	60503747B	60503747E	SHIFTING-SCREW
23 *	1	70283352A	70283352B	70283352C	SHIFTING YOKE
26	1	08950405C	08950405E	08950405G	COVER
27	2	P6395030	P6395030	41510605D	STOP NUT
42 *	1	60501582B	60501582C	60501582D	THRUST BEARING HOUSING
43 *	1	07914701H	07914701N	07914701S	THRUST BEARING (2)
50 *	1	(3)	(3)	(3)	SLIDING CONSTANT
51 *	1	41510439N	41510439P	41510439AA	DISC DISC KEY (2)
52 *	1	60503629C	60503629E	60503629H	BELT
53 *	1	(3)	(3)	(3)	FIXED CONSTANT DISC
54	1 OR 0	-	-	D0070038	LUB FITTING ADAPTOR
58	1 OR 0	-	-	07901913D	LUB FITTING
60	1	60502582Y	60502629AW	D8670649	VARIABLE SHAFT
61 *	1	41510434CP	D6040012	D6040013	DISC KEY (4)
62	1 OR 0	-	-	07901913D	LUB FITTING
63	1	41510434H	41510434H	41510434H	COUPLING KEY
65 *	1	60500707T	70280701C	D4100001	FIXED VARIABLE DISC
66 *	1	41511265TT	41511265TW	D4440001	SLIDING VARIABLE DISC (5)
70	1	F04018	F04055	F04047	RETAINING RING
73	1	F04018	F04055	F04047	RETAINING RING
78 *	1	07914702V	07914702AG	07914702BH	BEARING
80 *	1	07914702AA	07914706A	07914702AL	BEARING
124	2	D5450009	D54500026	D54500026	GASKET
126	2	F04018	F04008	F04001	RETAINING RING
127	1	F04006	F04019	F04031	RETAINING RING
128	2	FZ3606	FZ3605	FZ3605	PLUG BUTTON
138	1 OR 0	-	-	FZ3605	PLUG BUTTON
142	1	D6780345	D6780342	D6780344	XL ADAPTOR
154	1 OR 0	60500351M	D1380042	51380043	SPRING ASSEMBLY (8:1)
155	1	41511265JH	41511265JH	41511265JH	HANDLE, PIN, WASHER ASSEMBLY
157 *	1	60501902B	60501902B	60501902C	SHIFTING NUT
222 *	1	41162904C	41162904C	41162904C	COUP HUB (KEYED HALF)
222 *	1	41162906A	41162906A	41162906A	COUPLING SLEEVE
222 *	1 OR 0	41162908A	-	-	COUP (SPLINED) (12-16 ONLY)
222 *	1 OR 0	41162908B	41162908B	41162908B	COUP (SPLINED) (21-28 ONLY)
251 *	1	41511265WB	41511265WC	-	BUSHING KIT (CONSTANT) (2)
252	1	41510116B	41510116Y	-	DISC COLLAR (2)
253 *	1	41511265MG	41511265MH	-	BUSHING, KIT (VARIABLE) (6)
267	1	08951219H	08951219S	08951219V	BACKPLATE
268	1	60502149D	60502149D	60502149D	CAUTION PLATE
269 *	2	41510062CG	41510062CG	41510062CG	BUSHING, SHIFT-SCREW
270	1	41510833Y	41510833Y	41510833AA	SHIFTING YOKE ROD
271	2	41511411C	41511411C	41511411C	DISCONNECT PIN
272	2	41511411B	41511411B	41511411B	PIN WIRE
273	1	41511226J	41511226J	41511226J	SHIFT SCREW GROMMET
274	4	41511321AA	41511321AA	41511321AC	STUD
275	4	41511323D	41511323D	41511323E	RECEPTACLE
276	4	41510777A	41510777A	41510777B	STUD RETAINER
277	1 OR 0	FZ3602	FZ3602	FZ3602	TACH WIRE PLUG
279	1	70281321A	70281321B	70281321C	COVER GASKET
280	4	41510898AC	41510898AD	41510898AF	CONTROL BRACKET BOLT
282	1 OR 0	-	60503749A	-	SHIELD (SIZE 2 140TC)
283	1 OR 0	-	-	-	GASKET (SZ.2 140TC E-Z KLEEN ONLY)
284	1 OR 2	400135	400135	400135	SET SCREW

* Recommended Spare Parts

- (1) Determine from motor nameplate or contact Renewal Parts with unit identification number.
 (2) Included in Constant Disc Kit.
 (3) Refer to section E of H103 Data Book.

- (4) Also included with Reference Number 60 Variable Shaft.
 (5) Includes Reference Number 253 Bushings Installed.
 (6) Included with Reference Number 66 Sliding Variable Disc.
 (7) For Reducer Parts refer to applicable pages in Section E of H103 Data Book.

ULTIMA Drive with No Reducer - Size 1-3



1	MOTOR	62	LUB FITTING (SIZE 3 ONLY)	253	DISC BUSHING (VARIABLE)
9	NAMEPLATE	63	VARIABLE SHAFT OUTPUT KEY		(SIZE 1 & 2 ONLY)
12	HANDWHEEL	65	FIXED VARIABLE DISC	267	BACKPLATE
13	FRICTION CATCH	66	SLIDING VARIABLE DISC	268	CAUTION PLATE
14	FRICTION SPRING	70	RETAINING RING	269	BUSHING
15	SHIFTING SCREW	73	RETAINING RING	270	SHIFTING YOKE ROD
23	SHIFTING YOKE	78	BEARING	271	QUICK DISCONNECT PIN
26	COVER	80	BEARING	272	PIN WIRE
27	STOP NUT	124	GASKET	273	SHIFTING SCREW GROMMET
42	THRUST BEARING HOUSING	126	RETAINING RING	274	STUD 1/4 TURN
43	THRUST BEARING	127	RETAINING RING	275	RECEPTACLES 1/4 TURN
50	SLIDING CONSTANT DISC	128	PLUG BUTTON	276	RETAINER STUD 1/4 TURN
51	DISC KEY (CONSTANT)	138	PLUG BUTTON (SIZE 3 ONLY)	277	TACH WIRE PLUG
52	BELT	154	SPRING ASSEMBLY	279	COVER GASKET
53	FIXED CONSTANT DISC	155	HANDLE, PIN & WASHERS	280	CONTROL BRACKET BOLT
54	LUB FITTING ADAPTOR (SIZE 3 ONLY)	157	SHIFTING NUT	282	MOTOR SHIELD
58	LUB FITTING (SIZE 3 ONLY)	251	DISC BUSHING (CONSTANT)	283	MOTOR GASKET
60	VARIABLE SHAFT		(SIZE 1 & 2 ONLY)		(SIZE 2 140TC FR. E-Z KLEEN ONLY)
61	DISC KEY (VARIABLE)	252	DISC COLLAR (SIZE 1 & 2 ONLY)	284	SET SCREW

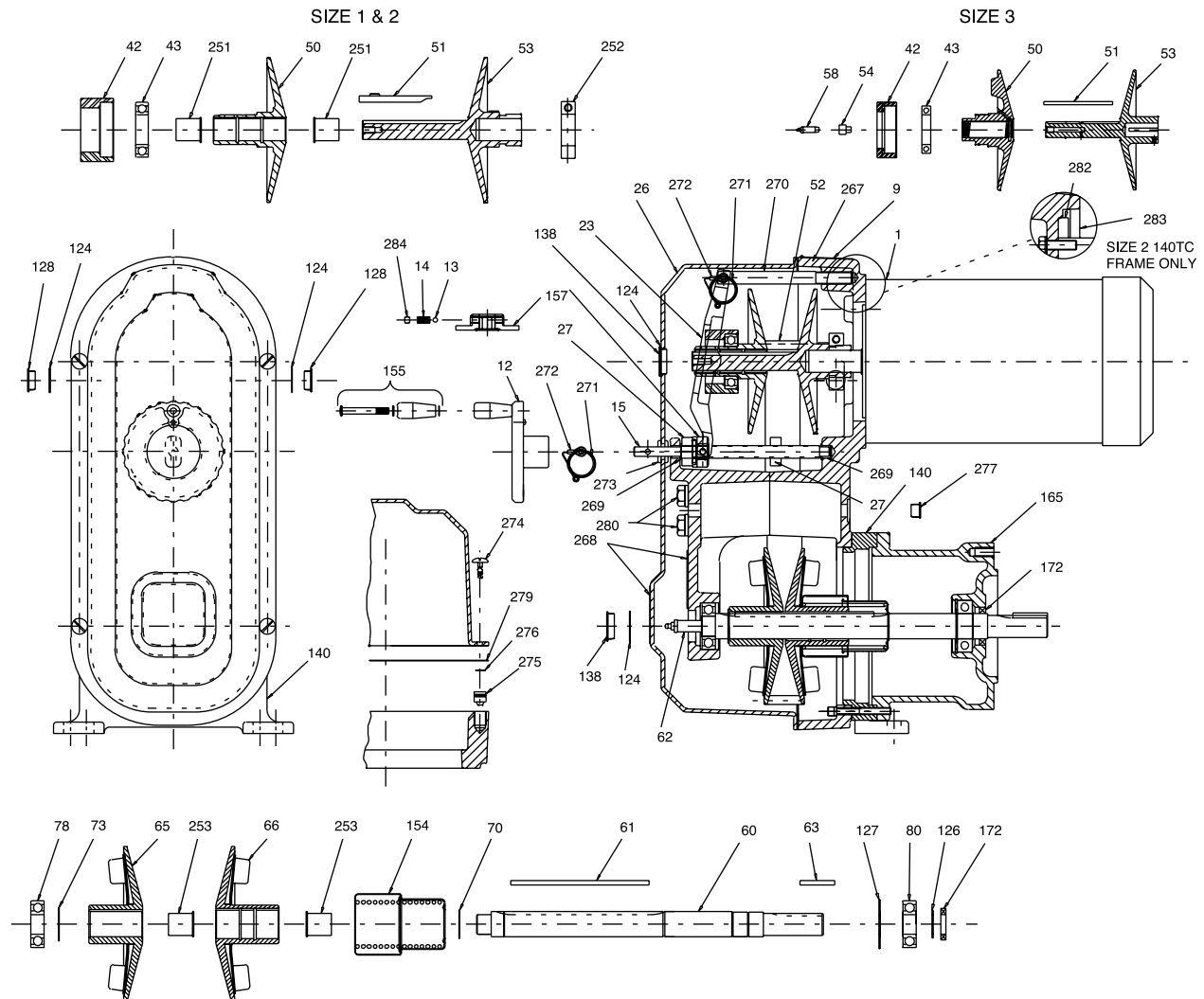
ULTIMA Drive with No Reducer - Size 1-3

Ref. No.	Qty.	Part Numbers By Size			Description
		1	2	3	
1	1	(1)	(1)	-	MOTOR
9	1	60502146BC	60502146BC	60502146BC	NAMEPLATE
12	1	60501451F	60501451F	60501451F	HANDWHEEL
13	* 2	F01464	F01464	F01464	FRICTION CATCH
14	* 2	41511062E	41511062E	41511062E	FRICTION SPRING
15	* 1	60503747B	60503747B	60503747E	SHIFTING SCREW
23	* 1	70283352A	70283352B	70283352C	SHIFTING YOKE
26	1	08950405C	08950405E	08950405G	COVER
27	2	P6395030	P6395030	41510605D	STOP NUT
42	* 1	60501682B	60501682C	60501682D	THRUST BEARING HOUSING
43	* 1	07914701H	07914701N	07914701S	THRUST BEARING (2)
50	* 1	(3)	(3)	(3)	SLIDING CONSTANT DISC
51	* 1	41510439N	41510439P	41510439AA	DISC KEY (2)
52	* 1	60503629C	60503629E	60503629H	BELT
53	* 1	(3)	(3)	(3)	FIXED CONSTANT DISC
54	1	-	-	D0070038	LUBE ADAPTOR
58	1	-	-	07901913D	LUBE FITTING
60	1	60502582BT	60502629C	D8670102	VARIABLE SHAFT
61	* 1	41510434CP	D6040012	D6040013	DISC KEY (4)
62	1	-	-	07901913D	LUBE FITTING
63	1	41510434CY	D6040031	D6040040	OUTPUT KEY
65	* 1	60500707T	70280701C	D4100001	FIXED VARIABLE DISC
66	* 1	41511265TT	41511265TW	D4440001	SLIDING VARIABLE DISC(S)
70	1	F04018	F04055	F04047	RETAINING RING
73	1	F04018	F04055	F04047	RETAINING RING
77	1	D6780170	70281827G	D6780029	BEARING PLATE
78, 80	* 2	07914702V	-	07914702BH	BEARING
78	* 1	-	07914702AG	-	BEARING
80	* 1	-	07914702CK	-	BEARING
124	2	D5450009	D5450026	D5450026	GASKET
125	1	08951132A	70283274A	D9490005	CASE SUPPORT
126	1	F04052	F04019	F04001	RETAINING RING
127	1	F04051	F04008	F04031	RETAINING RING
128	2	FZ3606	FZ3605	FZ3605	PLUG BUTTON
138	2	-	-	FZ3605	PLUG BUTTON
154	1 OR 0	60500351M	D1380042	D1380043	SPRING ASSY. (8:1)
155	1	41511265JH	41511265JH	41511265JH	HANDLE, PIN, WASHER
157	* 1	60501902B	60501902B	60501902C	SHIFTING NUT
172	* 1	41162702BE	41162701BX	-	SEAL
251	* 1	41511265WB	41511265WC	-	BUSHING KIT (2)
252	1	41510116B	41510116Y	-	DISC COLLAR (2)
253	* 1	41511265MG	41511265MH	-	BUSHING KIT (6)
267	1 OR 0	08951219H	08951219S	08951219V	BACKPLATE
268	2	60502149D	60502149D	60502149D	CAUTION PLATE
269	* 2	41510062CG	41510062CG	41510062CG	BUSHING, SHIFT SCREW
270	1	41510833Y	41510833Y	41510833AA	SHIFTING YOKE ROD
271	2	41511411C	41511411C	41511411C	DISCONNECT PIN
272	2	41511411B	41511411B	41511411B	PIN WIRE SHIFT
273	1	41511226J	41511226J	41511226J	SCREW GROMMET
274	4 (7)	41511321AA	41511321AA	41511321AC	STUD
275	4 (7)	41511323D	41511323D	41511323E	RECEPTACLE
276	4 (7)	41510777A	41510777A	41510777B	RETAINER
277	1 OR 0	FZ3602	FZ3602	FZ3602	TACH WIRE PLUG
279	1	70281321A	70281321B	70281321C	COVER GASKET
280	4	41510898AC	41510898AD	41510898AE	BOLT, CONTROL BRACKET
282	1 OR 0	-	60503749A	-	SHIELD (SIZE 2 140TC)
283	1 OR 0	-	60501326A	-	GASKET (SZ. 2 140TC E-Z KLEEN)
284	1 OR 2	400135	400135 (8)	400135 (8)	SET SCREW

* Recommended Spare Parts

(1)	Determine from motor nameplate or contact Renewal Parts with unit identification number.	(5)	Includes Reference Number 253 Bushings Installed for sizes 1 & 2 only.
(2)	Included in Constant Disc Kit for sizes 1 & 2 only. Order separately for size 3.	(6)	Included with Reference Number 66 Sliding Variable Disc Kit.
(3)	Refer to section E of H103 Data Book.	(7)	Size 2 uses quantity 6, size 3 uses quantity 8.
(4)	Also included with Reference Number 60 Variable Shaft.	(8)	Size 2 and 3 require quantity 2.

ULTIMA Drive with NEMA C-Face Output - Size 1-3



1	MOTOR	63	VARIABLE SHAFT OUTPUT KEY	252	DISC COLLAR (SIZE 1 & 2 ONLY)
9	NAMEPLATE	65	FIXED VARIABLE DISC	253	DISC BUSHING (VARIABLE) (2)
12	HANDWHEEL	66	SLIDING VARIABLE DISC		(SIZE 1 & 2 ONLY) (2)
13	FRICTION CATCH	70	RETAINING RING	267	BACKPLATE & CONTROL ASSEMBLY
14	FRICTION SPRING	73	RETAINING RING	268	CAUTION PLATE (2)
15	SHIFTING SCREW	78	BEARING (2)	269	BUSHING (2)
23	SHIFTING YOKE	124	GASKET (2)	270	SHIFTING YOKE ROD
26	COVER	126	RETAINING RING	271	QUICK DISCONNECT PIN (2)
27	STOP NUT 2	127	RETAINING RING	272	PIN WIRE (2)
42	THRUST BEARING HOUSING	128	PLUG BUTTON	273	SHIFTING SCREW GROMMET
43	THRUST BEARING	138	PLUG BUTTON (SIZE 3 ONLY)	274	STUD 1/4 TURN
50	SLIDING CONSTANT DISC	140	TRUNNION ADAPTOR	275	RECEPTACLES 1/4 TURN
51	DISC KEY (CONSTANT)	154	SPRING ASSEMBLY	276	RETAINER STUD 1/4 TURN
52	BELT	155	HANDLE, PIN & WASHER	277	TACH WIRE PLUG
53	FIXED CONSTANT DISC	157	SHIFTING NUT	279	COVER GASKET
54	LUB FITTING ADAPTOR (SIZE 3 ONLY)	165	BEARING PLATE (C-FACE)	280	CONTROL BRACKET BOLT
58	LUB FITTING (SIZE 3 ONLY)	172	SEAL	282	MOTOR SHIELD
60	VARIABLE SHAFT	251	DISC BUSHING (CONSTANT)	283	MOTOR GASKET
61	DISC KEY (VARIABLE)		(SIZE 1 & 2 ONLY) (2)	284	SET SCREW
62	LUB FITTING (SIZE 3 ONLY)				

ULTIMA Drive with NEMA C-Face Output - Size 1-3

Ref. No.	Qty	Part Number By Size			Description
		1	2	3	
1	1	(1)	(1)	-	MOTOR
9	1	60502146BC	60502146BC	60502146BC	NAMEPLATE
12	1	60501451F	60501451F	60501451F	HANDWHEEL
13	*	F01464	F01464	F01464	FRICTION CATCH
14	*	41511062E	41511062E	41511062E	FRICTION SPRING
15	*	60503747B	60503747B	60503747E	SHIFTING SCREW
23	*	70283352A	70283352B	70283352C	SHIFTING YOKE
26	1	08950405C	08950405E	08950405G	COVER
27	2	P6395030	P6395030	41510605D	STOP NUT
42	*	60501682B	60501682C	60501682D	THRUST BEARING HOUSING
43	*	07914701H	07914701N	07914701S	THRUST BEARING (2)
50	*	(3)	(3)	(3)	SLIDING CONSTANT DISC
51	*	41510439N	41510439P	D6040019	DISC KEY (2)
52	*	60503629C	60503629E	60503629H	BELT
53	*	(3)	(3)	(3)	FIXED CONSTANT DISC
54	1 OR 0	-	-	D0070038	LUB FITTING ADAPTOR
58	1 OR 0	-	-	07901913D	LUB FITTING
60	1	60502582BT	60502629C	D8670102	VARIABLE SHAFT
61	*	41510434CP	D6040012	D6040013	DISC KEY (4)
62	1 OR 0	-	-	07901913D	LUB FITTING
63	1	41510434CY	D6040031	D6040040	OUTPUT KEY
65	*	60500707T	70280701C	D4100001	FIXED VARIABLE DISC
66	*	41511265TT	41511265TW	D4440001	SLIDING VARIABLE DISC (5)
70	1	F04018	F04055	F04047	RETAINING RING
73	1	F04018	F04055	F04047	RETAINING RING
78, 80	*	-	07914702AG	-	BEARING
78	*	07914702V	-	07914702BH	BEARING
80	*	07914702AA	-	07914703AW	BEARING
124	2	D5450009	D5450026	D5450026	GASKET
126	1	F04052	F04019	F04001	RETAINING RING
127	1	F04051	F04008	F04031	RETAINING RING
128	2	FZ3606	FZ3605	FZ3605	PLUG BUTTON
138	1 OR 0	-	-	FZ3605	PLUG BUTTON
140	1	70280008B	D0060001	D0060006	TRUNNION
154	1 OR 0	60500351M	D1380042	D1380043	ADAPTOR SPRING ASSY. (8:1)
155	1	41511265JH	41511265JH	41511265JH	HANDLE, PIN, WASHER
157	*	60501902B	60501902B	60501902C	SHIFTING NUT
165	1	70281826D	70281827M	D6780389	C-FACE BEARING PLATE
172	*	41162702BE	41162701BX	-	SEAL
251	*	41511265WB	41511265WC	-	BUSHING KIT (2)
252	1	41510116B	41510116Y	-	DISC COLLAR (2)
253	*	41511265MG	41511265MH	-	BUSHING KIT (6)
267	1 OR 0	08951219H	08951219S	08951219V	BACKPLATE
268	2	60502149D	60502149D	60502149D	CAUTION PLATE
269	*	41510062CG	41510062CG	41510062CG	BUSHING, SHIFT SCREW
270	1	41510833Y	41510833Y	41510833AA	SHIFTING YOKE ROD
271	2	41511411C	41511411C	41511411C	DISCONNECT PIN
272	2	41511411B	41511411B	41511411B	PIN WIRE
273	1	41511226J	41511226J	41511226J	SHIFT SCREW GROMMET
274	4 (7)	41511321AA	41511321AA	41511321AC	STUD
275	4 (7)	41511323D	41511323D	41511323E	RECEPTACLE
276	4 (7)	41510777A	41510777A	41510777B	RETAINER
277	1 OR 0	FZ3602	FZ3602	FZ3602	TACH WIRE PLUG
279	1	70281321A	70281321B	70281321C	COVER GASKET
280	4	41510898AC	41510898AD	41510898AE	BOLT, CONTROL BRACKET
282	1 OR 0	-	60503749A	-	SHIELD (SIZE 2 140TC)
283	1 OR 0	-	60501326A	-	GASKET (SZ. 2 140TC E-Z KLEEN)
284	0 OR 1	400135	400135 (8)	400135 (8)	SET SCREW

* Recommended Spare Parts

(1) Determine from motor nameplate or contact Renewal Parts with unit identification number.

(2) Included in Constant Disc Kit for sizes 1 & 2 only. Order separately for size 3.

(3) Refer to section E of H103 Data Book.

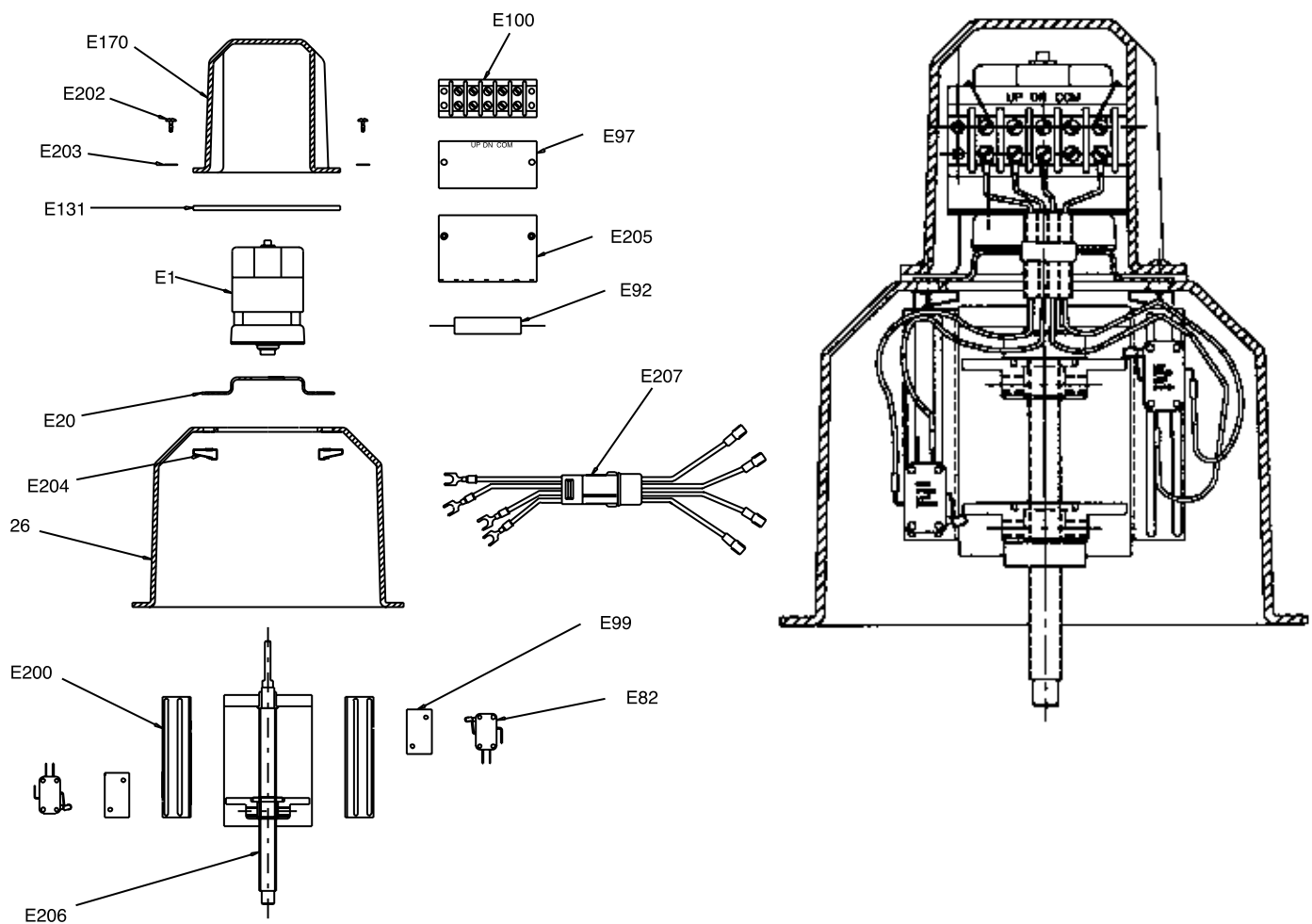
(4) Also included with Reference Number 60 Variable Shaft.

(5) Includes Reference Number 253 Bushings Installed for sizes 1 & 2 only.

(6) Included with Reference Number 66 Sliding Variable Disc Kit.

(7) Size 2 uses quantity 6, size 3 uses quantity 8.

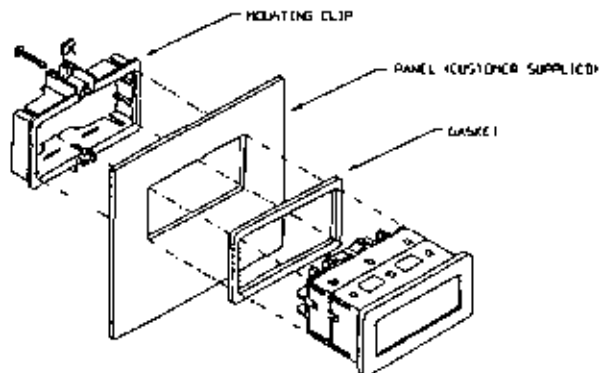
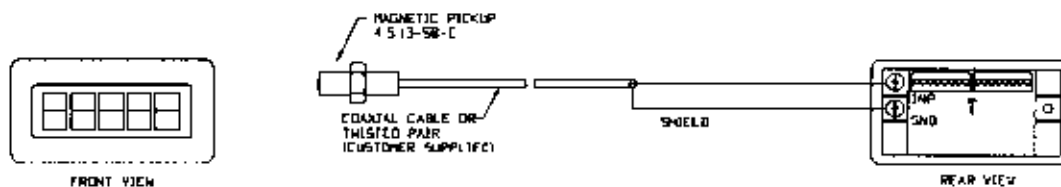
(8) Size 2 and 3 require quantity 2.

ULTIMA Drive Size 1-3**ELECTRIC REMOTE CONTROL (ERC/RAC)**

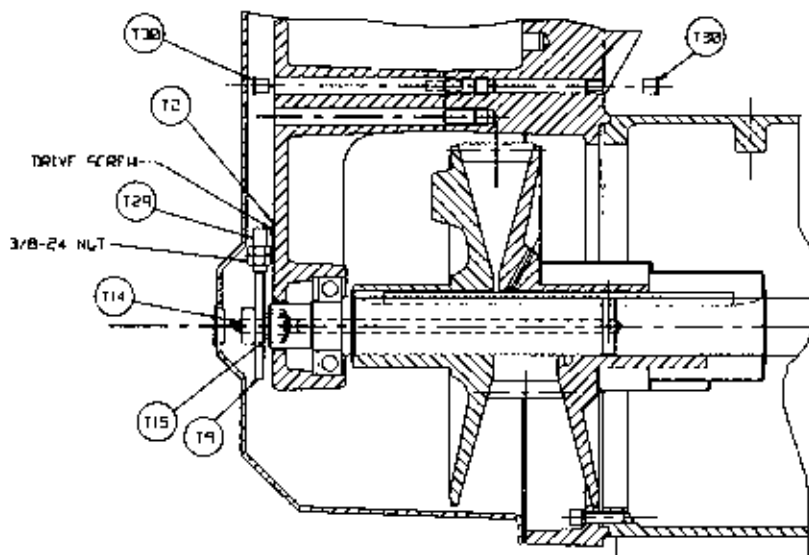
Ref. No.	Qty.	Part Number By Size			Description
		1	2	3	
E1*	1	60503603P	60503603P	60503603P	GEARMOTOR (RAC)
E20	1	60500214A	60500214A	60500214A	GEARMOTOR BRACKET
E82*	2	41511279A	41511279A	41511279A	LIMIT SWITCH
E92*	1	41511223H	41511223H	41511223H	CAPACITOR
E97	1	41511224C	41511224C	41511224C	MARKER STRIP
E99	2	41511367K	41511367N	41511367P	SPACER
E100	1	60503710F	60503710F	60503710F	TERMINAL BLOCK
E131	1	60503680CC	60503680CC	60503680CC	GASKET
E170	1 OR 0	60500564B	60500564B	60500564B	GEARMOTOR COVER (STANDARD)
E170	1 OR 0	60500564C	60500564C	60500564C	GEARMOTOR CVR. (WASHDOWN)
E200	2	60500214B	60500214B	60500214B	LIMIT SWITCH BRACKET
E201	1 OR 0	08950405F	08950405K	08950405L	BELTCASE COVER (STANDARD)
E201	1 OR 0	08950405J	08950405N	08950405R	BELTCASE COVER (WASHDOWN)
E202	2	41511321AA	41511321AA	41511321AC	STUD
E203	2	41510777A	41510777A	41510777B	RETAINER
E204	2	41510603E	41510603E	41510603E	RECEPTACLE
E205	1	60500214C	60500214C	60500214C	TERMINAL BLOCK BRACKET
E206*	1	60503747C	60503747C	60503747F	SHIFTING SCREW
E207	1	60503657AN	60503657AN	60503657AN	WIRING HARNESS

* Recommended Spare Parts

ULTIMA Drive with Digital Tach - Size 1-3



INDICATOR



- T2 MAGNETIC PICKUP BRACKET
- T9 TACH GEAR
- T14 TACH ADAPTOR
- T15 TACH ADAPTOR NUT
- T29 MAGNETIC PICKUP
- T30 TACH WIRE BUSHING

PICKUP

ULTIMA

INSTALLATION

ULTIMA drives ship installation-ready with speed stops set and gear units factory filled with lubricant. Some surfaces are coated with corrosion preventive compound which should be cleaned prior to mounting the output component. 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 ULTIMA 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 ULTIMA drive output cover as is possible. Proper clearance should be allowed for removal of the beltcase cover. The clearances required by case size are shown below.

Clearance Required for Beltcase Cover Removal:

Size 1 - 5.50"

Size 2 - 5.50"

Size 3 - 5.50"

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

MAINTENANCE

Under normal conditions, the REEVES ULTIMA drive's user friendly design cuts scheduled maintenance to minutes per year. Occasional visual inspections to check for hardware security, leakage, and general overall condition is good practice with any machine. In extremely dirty environment, heavy accumulations of dirt can cause overheating. An occasional washdown or wipe-off is good practice with any machine. Every 6 months or 2000 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 provided with each unit, you can assure years of dependable service from your REEVES ULTIMA drive. Complete maintenance instructions and warnings should be reviewed prior to installation. See manual.

NOTE: ULTIMA size 3 uses grease lubricated discs and requires periodic relubrication.

ULTIMA Weights

Parallel Gearing

HP	Size	Weight (lbs)
3/4	1R00	145
	1A2S	133
	1A2D	145
	1A2T	149
1	1R00	143
	1A2S	133
	1A2D	145
	1A2T	149
	1A3T	175
1-1/2	1R00	147
	1A2S	136
	1A2D	148
	1A2T	152
	1A3T	183
	1A4T	195
2	1R00	154
	2R00	205
	1A2S	150
	2A3S	195
	1A2D	162
	2A3D	213
	1A3T	192
	2A3T	220
	1A4T	206
	2A4T	234
3	2R00	248
	2A3S	238
	2A3D	256
	2A3T	263
	2A4T	277
	2A5T	344
5	2R00	255
	3R00	355
	2A3S	248
	3A4S	351
	2A3D	266
	3A4D	375
	2A4T	287
	3A4T	383
	2A5T	354
	3A5T	472
7-1/2	3R00	396
	3A4S	392
	3A4D	416
	3A5D	510
	3A5T	513
	3A6T	576

HP	Size	Weight (lbs)
10	3R00	419
	3A4S	410
	3A4D	434
	3A5D	528
	3A5T	533
	3A6T	599

Right Angle Gearing

3/4	1V16	149
	1V21	178
	1B16	172
	1B21	226
1	1V16	149
	1V21	178
	1B16	172
	1B21	226
1-1/2	1V16	153
	1V21	182
	1B16	176
	1B21	230
	1B28	330
2	1V16	170
	1V21	189
	1B16	183
	1B21	237
	1B28	337

Ultima Drive with C-Face Output Flange

1			130
1-1/2	1N00	140TC	134
2			141
3	2N00	180TC	235
5			245
7-1/2	3N00	210TC	360
10			385

REEVES VARI-SPEED Pulleys

Selections	
Junior Pulleys	D7- 2
Senior Pulleys	D7- 3
Compound Pulleys	D7- 3
Dimensions	
Junior Pulleys	D7- 6
Senior Pulleys	D7- 9

REEVES Pulleys

Part Number Index

REEVES VARI-SPEED DRIVES

REEVES VARI-SPEED motor pulleys and accessories provide economical, trouble-free adjustable speed drives for the fractional thru 15 HP range. Easy application and rugged design have made these drives a favorite

machinery design option for many years. Extra-Value features reduced maintenance time and costs, and contribute to longer belt life and quieter operation.

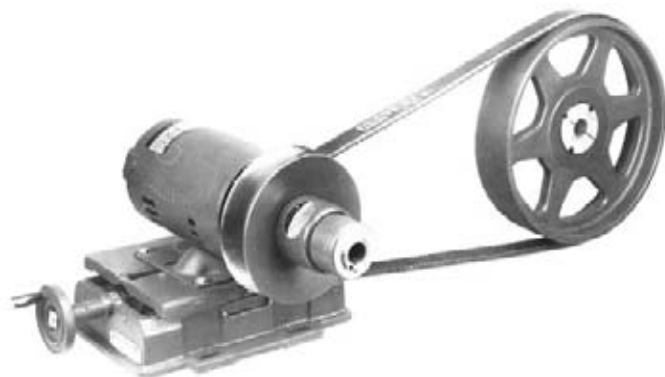
JUNIOR PULLEY



- 1/4 to 1-1/2 Horsepower
- 2.75 Speed Range
- Easily Lubricated: Contaminants flushed from sliding surfaces
- Patented closed groove lube system with grease reserve
- Uses Standard A or B section belts
- Driven sheave options include FHP or Dual-Duty TAPER-LOCK sheaves
- Fast, simple set-screw mounting



REEVES VARI-SPEED DRIVES



SENIOR PULLEY

- 1/4 to 15 HP
- 3:1 speed range
- Uses industry-standard wide range belts
- Stock TAPER-LOCK flat face pulley is driven sheave
- Self-contained spring cartridge for safety

EXTRA-VALUE FEATURES 1/4 Thru 10 HP Models

ELASTOMERIC BUSHING:

- Eliminates need for lubrication
- Sliding disc rides on tough engineered plastic bushing
- Will not corrode, will not stick
- Quick and easy replacement

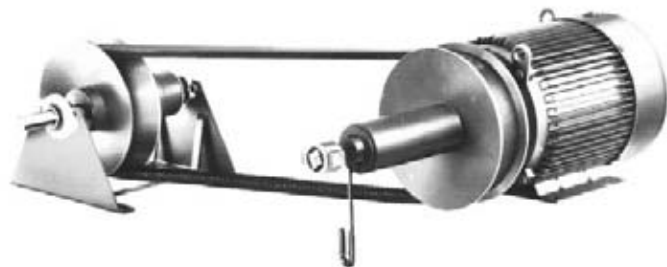
CLAMP COLLAR MOUNTING:

- Superior shaft grip
- Collet-style hub secured by compression clamp
- Concentric mount keeps wear and vibration to a minimum
- No fretting corrosion means easy removal for maintenance



DUCTILE IRON DISCS:

- Machined-all-over
- Naturally balanced for smooth running
- Stronger and more wear resistant than cast iron or steel



COMPOUND PULLEY

- 1/4 to 5 horsepower
- 9:1 speed range
- Available Countershaft allows C-Flow or Z-Flow configurations
- Manual control of motor pulley for accurate speed adjustment
- Adjustable motor base not required

REEVES Junior & Senior Pulleys

REEVES Vari-speed motor pulleys and accessories provide economical, trouble-free adjustable speed drives for the fractional thru 15 HP range. Easy application and rugged design have made these drives a favorite machinery design option for many years. Extra-Value (XV) features reduce maintenance time and costs, and contribute to longer belt life and quieter operation.

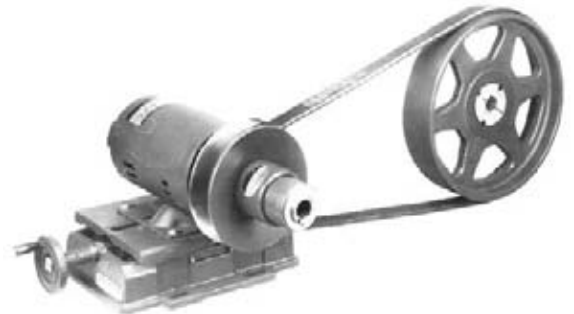
Junior Pulley – Only one moving part makes REEVES Jr. Pulleys extra reliable and easy to maintain.

- ¼ to 1-½ HP
- 2.75:1 Speed Range
- Easily Lubricated: Contaminants flushed from sliding surfaces
- Patented closed groove lube system with grease reserve
- Uses standard A or B section belts
- Driven sheave options include FHP or Dual-Duty Taper-Lock sheaves
- Fast, simple set screw mounting



Senior Pulley – Easy to apply, easy to install and easy to maintain.

- ¼ to 15 HP
- 3:1 Speed Range
- Uses industry standard wide range belts
- Stock Taper-lock flat face pulley is driven sheave
- Self-contained spring cartridge for safety
- XV Features on ¼ HP – 10HP models
- Sliding disc rides on tough engineered **Elastomeric Bushing**: Eliminates the need for lubrication; Will not corrode or stick; quick, easy replacement
- **Clamp Collar Mounting** (Collet-style hub secured by compression clamp) for superior shaft grip, concentric mount keeps wear and vibration to a minimum and no fretting corrosion means easy removal for maintenance
- **Ductile Iron Discs** that are naturally balanced because they are machined all over means smooth running, also stronger and more wear resistant than cast iron or steel.



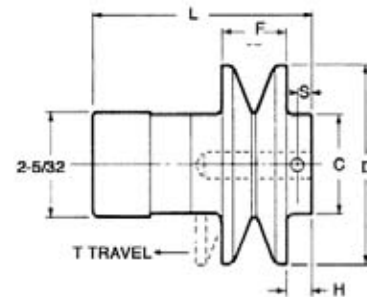
REEVES Junior & Senior Pulleys

Junior Pulley Ratings & Specifications:

Size	Speed Range	HP @ RPM			Pitch Dia		Dimensions						
		1750	1450	1160	Min	Max	D	F	L	T	C	H	S
830	1.75:1	1/4, 1/3	1/8, 1/4	1/8, 1/4	1.94	3.38	3.38	0.78	3.69	0.34	1.38	0.13	0.22
850	2.25:1	1/2	1/3	1/3	2.11	4.75	5.13	0.94	4.97	0.88	1.88	0.68	0.25
860	2.75:1	3/4	1/2	1/2	2.09	5.75	6.16	0.94	5.87	1.19	1.88	0.84	0.25
870	2.5:1	1	3/4	3/4	2.65	6.63	7.16	1.25	6.88	1.28	2.13	0.75	0.25
875	2.5:1	1-1/2	1	1	2.85	7.13	7.66	1.28	7.09	1.38	2.13	0.94	0.25

Junior Pulley Selection:

Size	Part Number by Bore Size				
	1/2	5/8	3/4	7/8	1
830	H95000	H95001	H95002	---	---
850	H95003	H95004	H95005	---	---
860	H95006	H95007	H95008	---	---
870	---	H95009	H95010	H95011	H95012
875	---	H95214	H95013	H95014	H95015

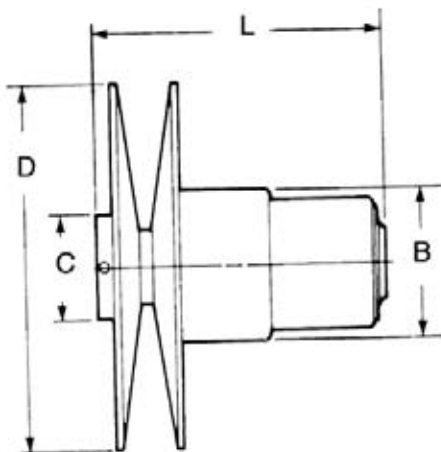


Senior Pulley Ratings & Specifications:

Size	Speed Range	HP @ RPM			Belt Width	Pitch Dia		Dimensions			
		1750	1450	1160		Min	Max	D	L	B	C
5675	3:1	1/4, 1/2, 3/4	1/4, 1/2	1/4, 1/2	7/8	1.73	5.19	5.44	5.12	2.44	1.75
7202	3:1	1, 1-1/2, 2	1, 1-1/2	1, 1-1/2	1-3/16	2.25	7.01	7.01	6.04	3.13	2.13
9205	3:1	3, 5	2, 3	1-1/2, 2, 3	1-13/16	2.90	8.71	8.96	7.75	3.69	2.75
1110	3:1	7-1/2, 10	5, 7-1/2	5, 7-1/2	2-3/4	3.61	10.84	11.09	10.08	5.00	3.00
912-15	2:1	15	10	10	2-3/4	5.88	11.75	12.00	11.31	4.72	---

Senior Pulley Selection:

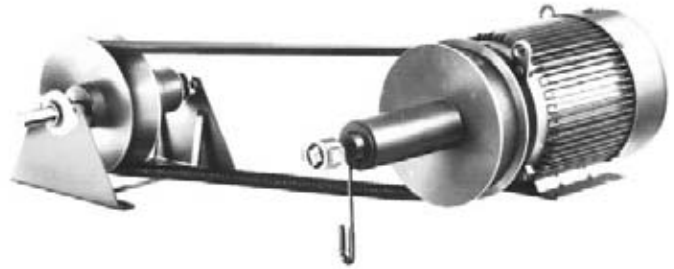
Size	Part Number by Bore Size								
	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-5/8
5675	H95500	H95501	H95502	---	---	---	---	---	---
7202	---	H95503	H95504	H95505	H95506	---	---	---	---
9205	---	---	---	H95507	H95508	H95509	---	H95510	---
1110	---	---	---	---	---	H95511	H95512	H95513	H95514
912-15	---	---	---	---	---	---	---	H95619	H95042



REEVES Compound Pulleys

Compound Pulley – For constant center distance applications both motor and driven load must remain immovable.

- 1/4 to 5 HP
- 9:1 speed range
- Available countershaft allows C-Flow or Z-Flow configurations
- Manual control of motor pulley for accurate, smooth speed adj.
- Adjustable motor base not required



Compound Pulley Ratings & Specifications:

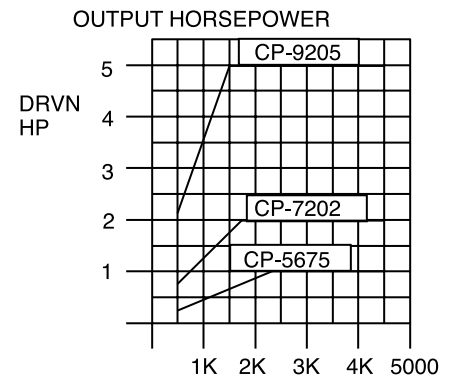
Size		Speed Range*		HP @ RPM			Dimensions						
Driver	Driven	1750 RPM Mtr	1160 RPM Mtr	1750	1450	1160		C	D	F1	F2	L	W
CP-5675	5675	4500/580	3480/387	3/4	1/2	1/2	Driver	1.75	5.44	1.11	1.81	9.84	3.88
							Driven					5.12	---
CP-7202	7202			2	1-1/2	1	Driver	2.19	7.01	1.46	2.41	10.78	3.69
							Driven					5.98	---
CP-9205	9205			5	3	3	Driver	2.75	8.96	2.11	3.34	12.50	3.75
							Driven					7.75	---

*Constant Torque

Compound Pulley Selection:

Size	Part Number by Bore Size*						
	1/2	5/8	3/4	7/8	1	1-1/8	1-3/8
CP-5675	H95518	H95519	H95520	---	---	---	---
CP-7202	---	H95521	H95522	H95523	H95524	---	---
CP-9205	---	---	---	H95525	H95526	H95527	H95528

*Part number is for Driver pulley only. See Sr. Pulley chart for driven pulley part number.

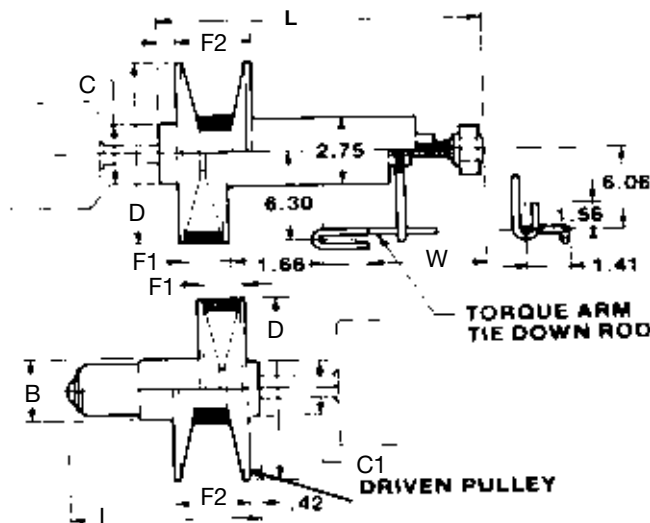


Thru-Bore Driven Pulleys:

Thru-Bore pulleys are the same as the standard 5675, 7202, and 9205 pulleys, except the bore is extended through the hub. This enables the pulley to be mounted on the REEVES countershaft.

Thru-Bore Pulley Selection:

Size	Bore	Part No.	Weight (lbs)
5675	3/4	H95515	6
7202	1	H95516	10
9205	1	H95517	14



REEVES Compound Pulleys

REEVES Compound Pulley

Belt/Center-Distance Selection

CP-5675/5675 Pulley Combo		CP-7202/7202 Pulley Combo		CP-7202/7202 Pulley Combo	
Belt P/N	Center Distance	Belt P/N	Center Distance	Belt P/N	Center Distance
109409	9.07	109498	8.50	109715	14.38
109011	12.35	109051	10.53	109717	16.38
109012	15.37	109020	11.59	109719	17.40
109013	18.39	109021	13.58	109720	18.41
109014	21.40	109508	15.10	109721	19.42
109422	24.40	109022	16.22	109722	20.43
		109023	19.64	109724	22.45
		109024	22.66	109726	24.47
		109516	25.68	109728	26.48
		109520	28.69	109729	29.01
		109523	32.70	109732	33.02
				109734	35.53

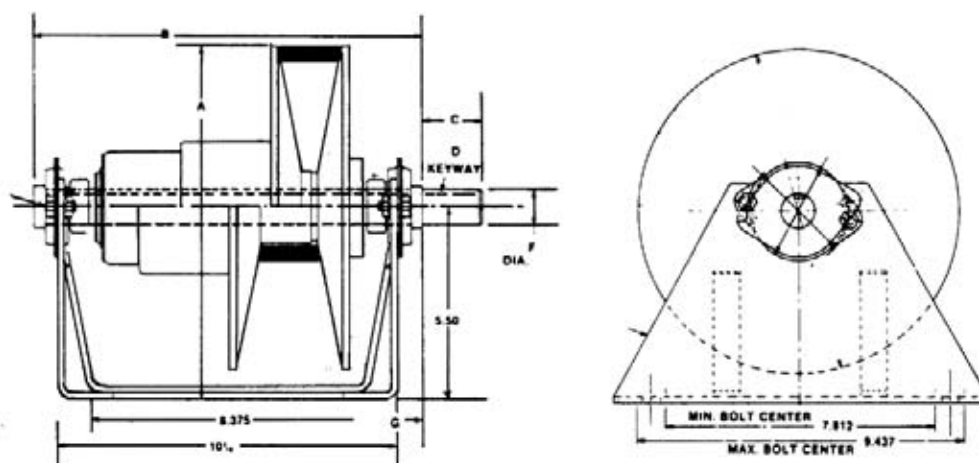
Vari-Speed Countershaft:

The REEVES Vari-Speed Countershaft is designed to accept REEVES Pulley sizes 5675, 7202, and 9205 in motion control applications with compound pulleys CP-5675, CP-7202, and CP-9205. Easy to remove shaft bearings on both ends provide convenient change over for left or right hand output. To obtain C-Flow or Z-Flow configurations, only the shaft is moved.

Vari-Speed Countershaft Specifications & Selection:

Part No	Description	Used with Pulley	Dimensions				
			A*	B	C	D	F
H95377	CS1 x 3/4	5675	8.283	11.77	2.125	3/16 x 3/32	0.75
H95430	CS2 x 1	7202, 9205	9.06		2.875	1/4 x 1/8	1.00

*10.023" for 9205 Pulley.



REEVES Junior & Senior Pulleys

REEVES Junior Pulley

Size 830 Junior Pulley

1/4 to 1/3 HP @ 1750 RPM

Driven Sheave: FHP or Dual-Duty

Belt: 4L FHP, A or AX S-L Classic

Driven RPM's Max/Min Motor RPM		Driven Sheave P.D.	Min/Max Center Distance for V-Belt No.												
			A-26	A-31	A-33	A-35	A-38	A-42	A-46	A-48	A-51	A-53	A-55	A-60	A-71
1750	1160														
1965	1305	3.0	8.6	11.1	12.1	13.1	14.6	16.6	18.6	19.6	21.1	22.1	23.1	25.6	31.1
1125	750		9.8	12.3	13.3	14.3	15.7	17.7	19.7	20.7	22.2	23.2	24.2	26.7	32.2
1850	1225	3.2	8.5	11.0	12.0	13.0	14.5	16.5	18.5	19.5	21.0	22.0	23.0	25.5	31.3
1060	700		9.6	12.1	13.1	14.1	15.1	17.6	19.6	20.6	22.1	23.1	24.1	26.6	32.4
1740	1150	3.4	8.3	10.8	11.8	12.8	14.3	16.3	18.3	19.3	20.8	21.8	22.8	25.3	30.8
990	660		9.4	11.9	12.9	13.9	15.4	17.4	19.4	20.4	21.9	22.9	23.9	26.4	31.9
1640	1085	3.6	8.2	10.7	11.7	12.7	14.2	16.2	18.2	19.2	20.7	21.7	22.7	25.2	30.7
940	620		9.3	11.8	12.8	13.8	15.3	17.3	19.3	20.3	21.8	22.8	23.8	26.3	31.8
1555	1030	3.8	8.0	10.5	11.5	12.5	14.0	16.0	18.0	19.0	20.5	21.5	22.5	25.0	30.5
890	590		9.1	11.6	12.6	13.6	15.1	17.1	19.1	20.1	21.6	22.6	23.6	26.1	31.6
1480	980	4.0	7.8	10.3	11.3	12.3	13.8	15.8	17.8	18.8	20.3	21.3	22.3	24.8	30.3
845	560		8.9	11.4	12.4	13.4	14.9	16.9	18.9	19.9	21.4	22.4	23.4	25.9	31.4
1410	930	4.2	7.7	10.2	11.2	12.2	13.7	15.7	17.7	18.7	20.2	21.2	22.2	24.7	30.2
810	530		8.8	11.3	12.3	13.3	14.8	16.8	18.8	19.8	21.3	22.3	23.3	25.8	31.3
1340	890	4.4	7.5	10.0	11.0	12.0	13.5	15.5	17.5	18.5	20.0	21.0	22.0	24.5	30.1
770	510		8.6	11.1	12.1	13.1	14.6	16.6	18.6	19.6	21.1	22.1	23.1	25.6	31.2
1285	850	4.6	7.4	9.9	10.9	11.9	13.4	15.4	17.4	18.4	19.9	20.9	21.9	24.4	29.9
735	490		8.4	10.9	11.9	12.9	14.4	16.4	18.4	19.4	20.9	21.9	22.9	25.4	31.0
1230	815	4.8	7.2	9.7	10.7	11.7	13.2	15.2	17.2	18.2	19.7	20.7	21.7	24.2	29.7
700	465		8.2	10.7	11.7	12.7	14.2	16.2	18.2	19.2	20.7	21.7	22.7	25.2	30.8
1180	785	5.0	7.0	9.5	10.5	11.5	13.0	15.0	17.0	18.0	19.5	20.5	21.5	24.0	29.5
680	450		8.1	10.6	11.6	12.6	14.1	16.1	18.1	19.1	20.6	21.6	22.6	25.1	30.6
1135	750	5.2	6.9	9.4	10.4	11.4	12.9	14.9	16.9	17.9	19.4	20.4	21.4	23.9	29.4
650	430		7.9	10.4	11.4	12.4	13.9	15.9	17.9	18.9	20.4	21.4	22.4	24.9	30.5
1095	725	5.4	6.7	9.2	10.2	11.2	12.7	14.7	16.7	17.7	19.2	20.2	21.2	23.7	29.2
625	415		7.7	10.2	11.2	12.2	13.7	15.7	17.7	18.8	20.3	21.3	22.3	24.8	30.3
1055	700	5.6	6.5	9.0	10.0	11.0	12.5	14.5	16.5	17.5	19.0	20.0	21.1	23.6	29.1
600	400		7.5	10.0	11.0	12.0	13.5	15.6	17.6	18.6	20.1	21.1	22.1	24.6	30.2
1020	675	5.8	6.3	8.8	9.8	10.9	12.4	14.4	16.4	17.4	18.9	19.9	20.9	23.4	28.9
580	385		7.3	9.8	10.9	11.9	13.4	15.4	17.4	18.4	19.9	20.9	21.9	24.4	30.0
985	655	6.0	6.1	8.7	9.7	10.7	12.2	14.2	16.2	17.2	18.7	19.7	20.7	23.2	28.7
560	375		7.1	9.7	10.7	11.7	13.2	15.2	17.2	18.2	19.7	20.7	21.8	24.3	29.8
955	630	6.2	6.0	8.5	9.5	10.5	12.0	14.1	16.1	17.1	18.6	19.6	20.6	23.1	28.6
545	360		6.9	9.5	10.5	11.5	13.0	15.1	17.1	18.1	19.6	20.6	21.6	24.1	29.7
920	610	6.4	5.8	8.3	9.3	10.4	11.9	13.9	15.9	16.8	18.4	19.4	20.4	22.9	28.4
530	350		6.7	9.3	10.4	11.4	12.9	14.9	16.9	17.9	19.4	20.4	21.4	24.0	29.5
845	560	7.0	---	7.8	8.8	9.8	11.4	13.4	15.4	16.4	17.9	18.9	19.9	22.4	27.9
485	320		---	8.8	9.8	10.8	12.4	14.4	16.4	17.4	18.9	19.9	20.9	23.4	29.0
720	480	8.2	---	6.6	7.7	8.7	10.3	12.3	14.4	15.4	16.9	17.9	18.9	21.4	26.9
415	275		---	7.5	8.6	9.7	11.2	13.3	15.4	16.4	17.9	18.9	19.9	22.3	28.0
655	435	9.0	---	---	6.9	7.9	9.5	11.6	13.6	14.6	16.2	17.2	18.2	20.7	26.3
375	245		---	---	7.8	8.9	10.5	12.5	14.6	15.6	17.2	18.2	19.2	21.7	27.3
560	370	10.6	---	---	---	---	7.8	10.0	12.1	13.2	14.7	15.7	16.8	19.3	24.9
315	210		---	---	---	---	8.7	10.9	13.1	14.1	15.7	16.7	17.8	20.3	25.9
495	325	12.0	---	---	---	---	---	8.5	10.7	11.7	13.4	14.4	15.5	18.0	23.7
280	185		---	---	---	---	---	9.4	11.6	12.7	14.3	15.4	16.4	19.0	24.7

REEVES Junior & Senior Pulleys

Size 850 Junior Pulley

½ HP @ 1750 RPM

Driven Sheave: FHP or Dual-Duty

Belt: 4L FHP, A or AX S-L Classic

Driven RPM's Max/Min Motor RPM		Driven Sheave P.D.	Min/Max Center Distance for V-Belt No.												
1750	1160		A-26	A-31	A-33	A-35	A-38	A-42	A-46	A-48	A-51	A-53	A-55	A-60	A-71
1640	1100	5.0	6.0	8.5	9.5	10.5	2.0	14.0	16.0	17.0	18.5	19.5	20.5	23.0	28.5
740	490		8.1	10.6	11.6	12.6	14.1	16.1	18.1	19.1	20.6	21.6	22.6	25.1	30.6
1560	1060	5.2	---	8.3	9.3	10.3	11.8	13.8	15.8	16.8	18.3	19.3	20.3	22.8	28.3
710	470		---	10.4	11.4	12.4	13.9	15.9	17.9	18.9	20.4	21.4	22.4	24.9	30.1
1540	1020	5.4	---	8.2	9.2	10.2	11.7	13.7	15.7	16.7	18.2	19.2	20.2	22.7	28.1
685	455		---	10.2	11.2	12.2	13.7	15.7	17.7	18.7	20.2	21.2	22.2	24.7	30.3
1485	985	5.6	---	8.0	9.0	10.0	11.5	13.5	15.5	16.5	18.0	19.0	20.0	22.5	28.0
638	440		---	9.9	10.9	11.9	13.4	15.4	17.4	18.4	19.9	20.9	21.9	24.4	30.0
1385	985	5.8	---	7.8	8.8	9.8	11.3	13.3	15.3	16.3	17.8	18.8	19.8	22.3	27.6
620	420		---	9.8	10.8	11.8	13.3	15.3	17.3	18.3	19.8	20.8	21.8	24.3	29.4
1385	920	6.0	---	7.7	8.7	9.7	11.2	13.2	15.2	16.2	17.7	18.7	19.7	22.2	27.2
620	410		---	9.6	10.6	11.6	13.1	15.1	17.1	18.1	19.6	20.6	21.6	24.2	29.2
1340	890	6.2	---	7.5	8.5	9.5	11.0	13.0	15.0	16.0	17.5	18.5	19.5	22.0	27.2
595	400		---	9.4	10.4	11.4	12.9	14.9	16.9	17.9	19.4	20.4	21.4	23.9	29.1
1300	860	6.4	---	7.4	8.4	9.4	10.9	12.9	14.9	15.9	17.4	18.4	19.4	21.9	27.3
580	385		---	9.2	10.2	11.2	12.7	14.7	16.7	17.7	19.2	20.2	21.2	23.7	29.2
1190	785	7.0	---	6.9	7.9	8.9	10.3	12.3	14.3	15.3	16.8	17.8	18.8	21.3	26.9
530	350		---	8.6	9.6	10.6	12.2	14.2	16.2	17.2	18.8	19.8	20.8	23.1	28.7
1015	670	8.2	---	---	---	7.8	9.3	11.3	13.3	14.3	15.9	16.9	17.9	20.3	25.9
450	300		---	---	---	9.6	11.2	13.2	15.2	16.2	17.7	18.7	19.7	22.1	27.7
920	615	9.0	---	---	---	---	8.6	10.6	12.6	13.6	15.2	16.2	17.2	19.8	25.2
410	275		---	---	---	---	10.3	12.3	14.3	15.3	17.1	18.1	19.7	21.3	27.0
785	520	10.6	---	---	---	---	---	9.1	11.2	12.2	13.8	14.8	15.8	18.3	23.9
350	230		---	---	---	---	---	10.8	12.9	14.0	15.6	16.6	17.6	20.2	21.7
690	460	12.0	---	---	---	---	---	---	9.8	10.9	12.5	13.5	14.5	17.1	24.7
310	205		---	---	---	---	---	---	11.5	12.6	14.2	15.2	16.2	18.8	26.5
555	370	15.0	---	---	---	---	---	---	---	---	---	---	11.5	14.2	20.0
245	165		---	---	---	---	---	---	---	---	---	---	13.1	15.9	21.7

REEVES Junior & Senior Pulleys

Size 860 Junior Pulley

¾ HP @ 1750 RPM

Driven Sheave: FHP or Dual-Duty

Belt: 4L FHP, A or AX S-L Classic

Driven RPM's Max/Min		Driven Sheave P.D.	Min/Max Center Distance for V-Belt No.											
Motor RPM			A-31	A-33	A-35	A-38	A-42	A-46	A-48	A-51	A-53	A-55	A-60	A-71
1750	1160													
1675 610	1110 405	6.0	6.9 9.6	7.9 10.6	8.9 11.6	10.4 13.1	12.4 15.1	14.4 17.1	15.4 18.1	16.9 19.7	17.9 20.7	18.9 21.7	21.4 24.2	26.5 29.3
1620 590	1075 390		6.2	6.7 9.4	7.7 10.4	8.7 11.4	10.2 12.9	12.2 14.9	14.2 17.0	15.2 18.0	16.7 19.5	17.7 20.5	18.7 21.5	21.2 24.0	25.6 28.7
1570 570	1040 380	6.4		--- ---	7.6 10.2	8.6 11.2	10.1 12.7	12.1 14.7	14.1 16.8	15.1 17.8	16.6 19.3	17.6 20.3	18.6 21.3	21.1 23.9	24.7 28.5
1435 520	955 345		7.0	--- ---	7.1 9.6	8.1 10.7	9.6 12.2	11.6 14.3	13.6 16.3	14.6 17.3	16.1 18.8	17.1 19.8	18.1 20.8	20.6 23.3	25.7 28.5
1225 445	815 295	8.2		--- ---	--- ---	--- ---	8.6 11.2	10.8 13.2	12.6 15.2	13.6 16.2	15.2 17.8	16.2 18.8	17.2 19.8	19.6 22.3	24.7 27.5
1115 405	740 270		9.0	--- ---	--- ---	--- ---	--- ---	9.8 12.4	11.9 14.5	12.9 15.5	14.4 17.1	15.4 18.1	16.4 19.1	19.0 21.6	24.1 26.9
950 345	630 230	10.6		--- ---	--- ---	--- ---	--- ---	--- ---	10.5 13.0	11.5 14.0	13.1 15.6	14.4 16.6	15.1 17.6	17.6 20.2	22.8 25.4
840 305	555 200		12.0	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	10.2 12.6	11.7 14.2	12.8 15.2	13.8 16.3	16.4 18.9	21.6 24.2
670 245	445 160	15.0		--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	13.5 15.9	18.9 21.5

Size 870 Junior Pulley

1 HP @ 1750 RPM

Driven Sheave: FHP or Dual-Duty

Belt: 5L FHP, B or BX S-L Classic

Driven RPM's Max/Min		Driven Sheave P.D.	Min/Max Center Distance for V-Belt No.											
Motor RPM			B-38	B-42	B-46	B-48	B-51	B-53	B-55	B-60	B-68	B-75	B-81	B-90
1750	1160													
1565 630	1040 415	7.4	8.9 11.8	10.9 13.8	12.9 15.8	13.9 16.8	15.4 18.4	16.4 19.4	17.4 20.4	19.9 22.9	23.9 26.9	27.4 30.4	30.4 33.4	32.4 35.4
1345 540	895 360		8.6	--- ---	9.9 12.7	11.9 14.7	12.9 15.8	14.4 17.3	15.4 18.3	16.4 19.3	18.9 21.6	22.6 25.4	26.1 29.0	29.2 32.1	33.6 36.5
1230 490	820 325	9.4		--- ---	9.2 11.9	11.2 14.0	12.2 15.0	13.8 16.6	14.8 17.6	15.8 18.6	18.3 21.2	22.3 25.2	25.8 28.7	28.8 31.7	33.3 36.2
1055 420	700 280		11.0	--- ---	--- ---	9.8 12.5	10.9 13.5	12.4 15.1	13.4 16.2	14.4 17.2	16.9 19.7	20.8 23.0	24.3 27.1	27.3 30.1	31.9 34.7
935 375	620 250	12.4		--- ---	--- ---	--- ---	--- ---	11.0 13.7	12.1 14.8	13.1 15.8	15.7 18.4	19.5 22.4	23.1 26.0	26.1 29.0	30.6 33.5
775 300	500 200		15.4	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	12.8 15.4	16.8 19.4	20.4 23.2	23.5 26.3	28.1 31.9
625 242	416 164	18.4		--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	17.7 20.5	20.8 23.6	25.5 28.3

REEVES Junior & Senior Pulleys

Size 875 Junior Pulley

1-1/2 HP @ 1750 RPM

Driven Sheave: FHP or Dual-Duty

Belt: 5L FHP, B or BX S-L Classic

Driven RPM's Max/Min		Driven Sheave P.D.	Min/Max Center Distance for V-Belt No.											
Motor RPM			B-38	B-42	B-46	B-48	B-51	B-53	B-55	B-60	B-68	B-75	B-81	B-90
1750	1160													
1685 675	1120 445	7.4	8.5 11.6	10.5 13.7	12.5 15.7	13.5 16.7	15.0 18.2	16.0 19.2	17.0 20.0	19.5 22.7	23.3 26.5	26.8 30.0	29.8 33.0	34.3 37.5
1450 580	965 385		8.6	--- 12.6	9.5 14.6	11.5 15.6	12.5 17.2	14.0 18.2	15.0 19.2	16.0 21.7	18.5 25.5	22.3 29.0	25.8 32.0	28.8 36.2	33.3 36.2
1330 530	880 335	9.4		--- 11.8	8.8 13.9	10.9 14.9	11.9 16.5	13.4 17.5	14.4 18.5	15.4 21.0	17.9 24.9	21.7 28.4	25.2 31.3	28.2 35.8	32.7 35.8
1135 455	750 300		11.0	--- ---	--- ---	--- ---	10.5 13.4	12.0 14.9	13.0 16.0	14.0 17.0	16.6 19.6	20.4 23.4	23.9 26.9	26.9 29.9	31.4 34.4
1000 400	670 265	12.4		--- ---	--- ---	--- ---	--- 13.6	10.7 14.6	11.8 15.7	12.8 18.3	15.3 22.2	19.2 25.7	22.7 25.7	25.7 28.7	30.3 33.3
810 325	540 215		15.4	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	12.5 15.3	16.5 19.2	20.1 22.9	23.2 26.1	27.7 30.6
680 273	450 181	18.4		--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---	17.3 20.2	20.4 23.3	25.0 28.0

REEVES Senior Pulley

Size 5675 Senior Pulley

1/4 - 3/4 HP @ 1750 RPM

Driven Sheave: 2.5" Wide Flat Face Pulley

Driven RPM's Max/Min		F-F Pulley Dia	Belt Part Number/ Length						
Motor RPM			109409	109011	109012	109013	109014	109422	109426
1750	1160		300	360	420	480	540	600	660
Min/Max Center Distance									
1680	1119	5	6.6	9.6	12.6	15.6	18.6	21.6	24.6
560	373		9.2	12.3	15.3	18.3	21.3	24.3	27.3
1416	945	6	---	8.8	11.8	14.8	17.8	20.8	23.8
472	315		---	11.4	14.4	17.5	20.5	23.5	26.5
1224	816	7	---	8.0	11.0	14.0	17.0	20.0	23.0
408	272		---	10.5	13.5	16.6	19.6	22.7	25.7
1077	720	8	---	---	10.2	13.2	16.2	19.2	22.2
359	240		---	---	12.6	15.7	18.8	21.8	24.8
963	642	9	---	---	9.3	12.3	15.4	18.4	21.4
321	214		---	---	11.6	14.8	17.9	20.9	23.9
870	582	10	---	---	---	11.4	14.5	17.5	20.5
290	194		---	---	---	13.8	16.9	20.0	23.0
795	528	11	---	---	---	10.5	13.6	16.6	19.6
265	176		---	---	---	12.8	16.0	19.1	22.1
729	486	12	---	---	---	---	12.6	15.4	18.4
243	162		---	---	---	---	15.0	18.1	21.1
627	420	12	---	---	---	---	10.6	13.8	16.8
209	140		---	---	---	---	12.8	16.1	19.1

REEVES Junior & Senior Pulleys

Size 7202 Senior Pulley

1 - 2 HP @ 1750 RPM

Driven Sheave: 2.5" Wide Flat Face Pulley

Driven RPM's Max/Min		F-F Pulley Dia	Belt Part Number/ Length									
Motor RPM			109501	109020	109021	109508	109022	109023	109024	109516	109520	109523
1750	1160		363	386	426	454	484	544	604	666	726	806
Min/Max Center Distance												
1809 603	1206 402	6*	7.5 10.9	8.5 11.9	10.5 13.9	12.0 15.4	13.5 16.9	16.5 19.9	19.5 22.9	22.5 25.9	25.5 28.9	29.5 33.0
1569 523	1047 349		7*	---	7.7 11.0	9.7 13.0	11.2 14.6	12.7 16.0	15.7 19.1	18.7 22.1	21.7 25.1	24.7 28.2	28.7 32.2
1383 461	924 308	8		---	---	8.9 12.1	10.4 13.7	11.9 15.2	14.9 18.2	17.9 21.2	20.9 24.3	23.9 27.3	27.9 31.4
1239 413	825 275	9	---	---	---	9.5 12.9	11.0 14.2	14.0 17.3	17.0 20.3	20.0 23.4	23.0 26.4	27.0 30.5
1119 373	747 249	10	---	---	---	---	10.2 13.3	13.2 16.4	16.2 19.4	19.2 22.5	22.2 25.5	26.2 29.7
1023 341	681 227	11	---	---	---	---	---	12.3 15.5	15.4 18.6	18.4 21.6	21.4 24.7	25.4 28.8
942 314	627 209	12	---	---	---	---	---	11.4 14.5	14.5 17.6	17.5 20.7	20.5 23.8	24.5 27.9
810 270	540 180	14	---	---	---	---	---	---	12.6 15.6	15.7 18.8	18.8 21.9	22.9 26.1
714 238	474 158	16	---	---	---	---	---	---	---	13.8 16.7	16.9 20.0	21.0 24.2
636 212	423 141	18	---	---	---	---	---	---	---	---	14.9 17.8	19.2 22.2
573 191	384 128	20	---	---	---	---	---	---	---	---	---	17.1 20.0

Size 9205 Senior Pulley

3 - 5 HP @ 1750 RPM

Driven Sheave: 3.25" Wide Flat Face Pulley

Driven RPM's Max/Min		F-F Pulley Dia	Belt Part Number/ Length											
Motor RPM			109717	109719	109721	109722	109740	109724	109726	109728	109729	109731	109732	109734
1750	1160		521	546	586	606	636	646	686	726	776	834	856	906
Min/Max Center Distance														
1425 475	951 373	10	10.6 14.8	11.6 15.9	13.9 17.9	14.6 18.9	15.6 20.0	16.6 20.9	18.6 23.0	20.6 25.0	23.1 27.6	25.6 30.1	27.1 31.6	29.6 34.1
1305 425	945 315	11	---	10.8 14.9	12.8 17.0	13.8 18.0	14.8 19.1	15.8 20.1	17.8 22.1	19.8 24.2	22.3 26.7	24.8 29.2	26.3 30.7	28.8 33.3
1200 400	816 272	12	---	---	11.9 16.0	12.9 17.1	14.0 18.1	15.0 19.1	17.0 21.2	19.0 23.3	21.5 25.8	24.0 28.3	25.5 29.9	28.0 32.4
1035 345	720 240	14	---	---	---	---	12.2 16.1	13.2 17.2	15.2 19.3	17.3 21.4	19.8 24.0	22.3 26.5	23.8 28.1	26.4 30.6
912 304	642 214	16	---	---	---	---	---	---	13.4 17.3	15.5 19.4	18.0 22.1	20.6 24.7	22.1 26.2	24.6 28.8
813 271	582 194	18	---	---	---	---	---	---	---	---	16.1 20.0	18.7 22.7	20.3 24.3	22.9 26.9
735 245	528 176	20	---	---	---	---	---	---	---	---	---	16.8 20.6	18.4 22.2	21.0 24.9
669 223	486 162	22	---	---	---	---	---	---	---	---	---	---	16.3 20.0	19.0 22.8

REEVES Junior & Senior Pulleys

Size 1110 Senior Pulley

7-1/2 or 10 HP @ 1750 RPM

Driven Sheave: 4.25" Wide Flat Face Pulley

Driven RPM's Max/Min		F-F Pulley Dia	Belt Part Number/ Length							
Motor RPM			109856	109862	109837	109052	109053	109845	109893	109877
1750	1160		660	730	790	850	910	970	1030	1090
Min/Max Center Distance										
1443	963	12	14.1	17.1	20.1	23.1	26.1	29.1	32.1	35.1
481	321		19.3	22.4	25.5	28.5	31.5	34.6	37.6	40.6
1251	834	14	---	15.4	18.5	21.5	24.5	27.5	30.5	33.5
417	278		20.5	23.6	26.7	29.8	32.8	35.9	38.9	
1104	738	16	---	---	16.7	19.8	22.8	25.8	28.8	31.9
368	246		21.7	24.8	27.9	31.0	34.1	37.1		
990	660	18	---	---	14.9	18.0	21.0	24.1	27.1	30.2
330	220		19.7	22.9	26.0	29.2	32.3	35.3		
897	597	20	---	---	---	16.1	19.2	22.3	25.4	28.4
299	199		20.8	24.0	27.2	30.4	33.5			
819	546	22	---	---	---	---	17.2	20.4	23.5	26.6
273	182		21.9	25.2	28.4	31.5				
753	501	24	---	---	---	---	---	18.4	21.6	24.7
251	167		23.0	26.3	29.5					
696	465	26	---	---	---	---	---	---	19.5	22.7
232	155		24.0	27.4						
648	432	28	---	---	---	---	---	---	---	20.6
216	144		25.1							

Size 912-15 Senior Pulley

15 HP @ 1750 RPM

Driven Sheave: 4.25" Wide Flat Face Pulley

Driven RPM's Max/Min		F-F Pulley Dia	Belt Part Number/ Length				
Motor RPM			109052	109053	109845	109893	109877
1750	1160		850	910	970	1030	1090
Min/Max Center Distance							
1065	705	18	18.1	21.1	24.1	27.2	30.2
532	352		22.1	25.2	28.3	31.3	34.6
960	645	20	16.2	19.3	22.4	25.4	28.5
480	322		20.0	23.2	26.4	29.5	32.8
885	585	22	---	17.4	20.5	23.6	24.8
442	292		---	21.1	24.4	27.5	29.0
810	540	24	---	---	18.5	21.7	24.8
405	270		---	---	22.3	25.5	29.0
750	495	26	---	---	---	16.5	23.9
375	247		---	---	---	23.4	27.0

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REEVES Pulleys

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