

INTRODUCTION

Linear Actuators.

For nearly 50 years, we have been designing and manufacturing globally respected motors for transportation, residential, and commercial applications. Today, Von Weise delivers a comprehensive line of fractional horsepower AC and DC gear motors, linear actuators, blowers, starters, and many other industrial applications.

Gearmotor applications include:

- · Hospital long term and home care beds
- Seat lift chairs
- Treadmills
- Ice Machines
- Vending Machines
- Workstation Tables
- · A variety of Industrial applications



This catalog presents the complete gearmotor and actuator line in two ways:

- The Custom section lists model numbers and the range of available options needed to meet your particular application.
- 2. The OEM section lists models in stock for applications not requiring one of our custom-engineered products.

Specifying gearmotors and actuators is simple using our "total capabilities" package. It allows you to specify the product that best supports your particular situation and requirement.

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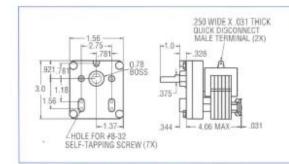
250 WIDE X 031 THICK QUICK DISCONNECT MALE TERMINAL (2X) 2.75 F1.18-D10P/L 1.0-- 25 187 671 Overhung load 3.5 lbs., .44" from output boss 60 BOSS 44 BOSS 2.5 125-3.75 MAX HDLE FOR #10-32 SELF-TAPPING SCREW (4X) .031 MAX 250 WIDE X. 031 THICK QUICK DISCONNECT MALE TERMINAL (2X) 215 1.18 Input Nominal Gear Ratios 3.0 Gearmotor 375 Motor Characteristics 24 30 40 60 100 150 300 60 Hz. F.L. Speed (RPM) 125 100 75 50 30 20 10 HOLE FOR #10-32 SELF-TAPPING SCREW (4X) 097-1 4.19 MAX-Reversing F.L. Torque (in-lbs.) 0.9 1.1 1.5 2.2 3.8 5.5 11 Non-F.L. Torque (in-lbs.) 2.2 2.8 3.6 ${\bf f}_i, {\bf f}_i$ 9 14 28 reversing · Shaded Pole Motor · P.S.C. Motor Synchronous Motor · Overload Protection Options • Disc Brake · Cone Brake · Armature Brake · Clutch



JonWeise

D10H Overhung load 7 lbs., .44" from output boss

AC GEARMOTORS



Parallel Shaft

Alternate mountings are available.

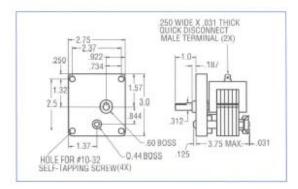
Input	Gearmotor Characteristics	Nominal Gear Ratios													
Motor		24	30	40	60	100	150	333	500	1000	1500				
60 Hz.	F.L. Speed (RPM)	125	100	75	50	30	20	9	6	3	2				
Reversing	F.L. Torque (in-lbs.)	0.9	1,1	1.5	2.2	3.8	5.5	13	21	45	56				
Non- reversing	F.L. Torque (in-lbs.)	2.2	2.8	3.6	5.5	9	14	30	52	75	75				
Options	Shaded Pole Motor Disc Brake		S.C. Motor one Brake	1.00	chronous M iature Brake		Overload Pr Clutch	otection							

AC GEARMOTORS

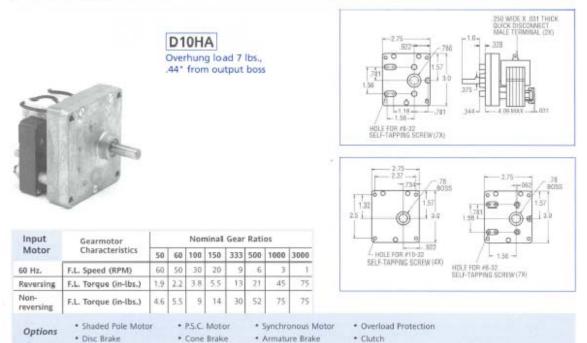
Parallel Shaft



D10PA Overhung load 3.5 lbs., .44" from output boss



Input	Gearmotor Characteristics	Nominal Gear Ratios												
Motor		24	30	40	60	100	150	333	500	1000	3000			
60 Hz.	F.L. Speed (RPM)	125	100	75	50	30	20	9	6	3	3			
Reversing	F.L. Torque (in-lbs.)	0.9	1.1	1.5	2.2	3.8	5.5	13	21	45	45			
Non- reversing	F.L. Torque (in-lbs.)	2.2	2.8	3.6	5.5	9	14	30	45	45	45			
Options	Shaded Pole Motor Disc Brake		.C. Motor one Brake	1000	hronous M ature Brake		Overload Pr Clutch	otection						

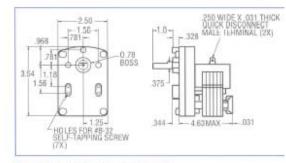


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Parallel Shaft



D1H/L Overhung load 7 lbs., .44" from output boss

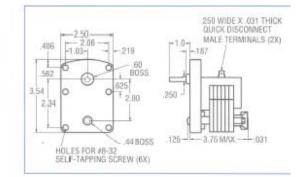


Alternate mountings are available.

Input	Gearmotor Characteristics	Nominal Gear Ratios												
Motor		17	25	32	50	59	86	150	250	500	750			
60 Hz.	F.L. Speed (RPM)	175	120	95	60	51	35	20	12	6	4			
Reversing	F.L. Torque (in-lbs.)	0.7	0.9	1.1	2	2	3	6	9	21	28			
Non- reversing	F.L. Torque (in-lbs.)	1,6	2.2	4,2	5	6	8	14	23	75	75			
Options	Shaded Pole Motor Disc Brake		S.C. Motor one Brake		Overload Armature		• Do • Ch	uble Outpu .itch	t Shaft					



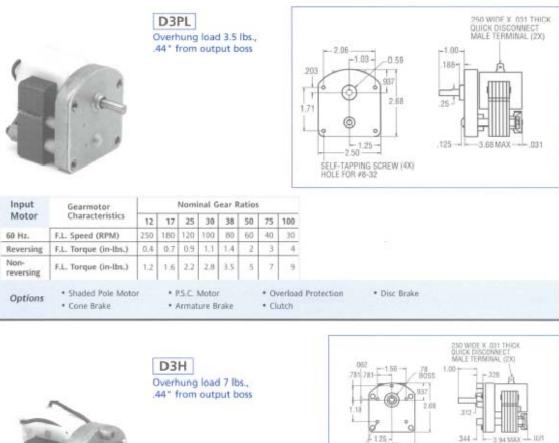
D1P Overhung load 3.5 lbs., .44" from output boss



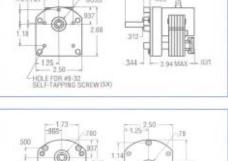
Input	Gearmotor Characteristics	Nominal Gear Ratios													
Motor		17	25	32	50	59	86	150	250	500	750				
60 Hz.	F.L. Speed (RPM)	175	120	95	60	51	35	20	12	6	4				
Reversing	F.L. Torque (in-lbs.)	0.7	0.9	1.1	2	2	3	6	9	21	28				
Non- reversing	F.L. Torque (in-Ibs.)	1.6	2.2	4.2	5	6	в	14	23	45	45				
Options	Shaded Pole Motor Cone Brake		S.C. Motor rmature Br		Overload Clutch	Protection	• Dis	ic Brake			10				

VonWeise AC GEARMOTORS

Parallel Shaft







1.140 2.68

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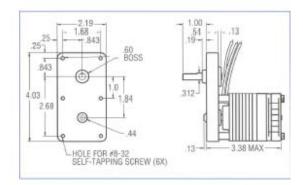
2.68

Input Motor	Gearmotor			Nomi	inal G	iear R	atios			0 0 5710 0121
Motor	Characteristics	12	17	25	30	38	50	75	100	-1.25- 2.50
60 Hz.	F.L. Speed (RPM)	250	180	120	100	80	60	40	30	HOLE FOR #10-32 HOLE FOR #10-32
Reversing	F.L. Torque (in-lbs.)	0.4	0.7	0.9	1.1	1.4	2	3	4	SELF-TAPPING SCREW (3X) DELF-TREPINU SCREW (3)
Non- reversing	F.L. Torque (in-lbs.)	1.2	1.6	2.2	2.8	3.5	5	7	9	
Options	 Shaded Pole Moto Cone Brake 	ŗ		P.S.C. I Armat					verloa utch	• Disc Brake

Parallel Shaft



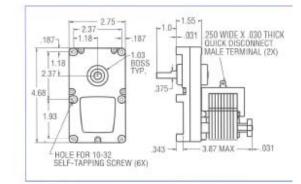
D14 Overhung load 3.5 lbs., .44* from output boss



Input	Gearmotor Characteristics		Nominal Gear Ratios									
Motor		31	59	90	125	173	250	439				
2 Pole	F.L. Speed (RPM)	98	55	36	25	18	12	7				
60 Hz.	F.L. Torque (in-lbs.)	1.5	2.6	4	6	8	13	18				
Options	P.S.C. Motor Cone Brake		Overlo Clutch		tectio	n		Disc Br				



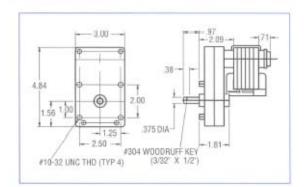
D9 Overhung load 7 lbs., .44" from output boss



Input	Gearmotor		No	minal G	Nominal Gear Ratios								
Motor	Characteristics	125	250	500	750	1500	3000						
50 Hz.	F.L. Speed (RPM)	24	12	6	4	2	1						
Reversing	F.L. Torque (in-lbs.)	4.5	9	21	28	56	112						
Non- reversing	F.L. Torque (in-lbs.)	17	35	79	105	200	200						
Options	Shaded Pole Moto	r	+ P.S.C	. Moto	r	• Synch	ronous Moto						
Options	Overload Protection	n	+ Disc	Brake		· Cone	Brake						

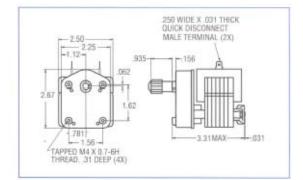
VW315

Overhung load 50 lbs., .44" from output boss



nput	Gearmotor	Standard Gear Ratios							
Motor	Characteristics	26	56	105	158	270	510		
2 Pole	F.L. Speed (RPM)	120	55	30	20	12	6		
60 Hz.	F.L. Torque (in-lbs.)	5.5	12	21	31	53	100		
Options	Shaded Pole Motor Solenoid Brake			verload			•		



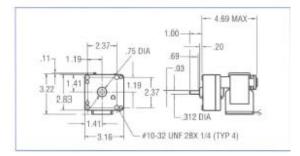




Input	Gearmotor	No			
Motor	Characteristics	20	25	30	
60 Hz.	F.L. Speed (RPM)	150	120	100	
Non- reversing	F.L. Torque (in-lbs.)	1.9	2.2	2.8	
Options	• Shaded Pole Motor	• 0	verload Protect	ion	* Disc Brake
options	Cone Brake	* A	rmature Brake		 Clutch

Parallel Shaft

VW11 Overhung load 50 lbs., .44" from output boss

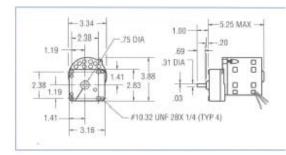




nput	Gearmotor Characteristics	Standard Gear Ratios												
Motor		15	24	48	96	149	250	495	1471	2965				
2 Pole	F.L. Speed (RPM)	200	120	60	30	20	12	6	2	1				
60 Hz.	F.L. Torque (in-lbs.)	3	5	9	18	26	43	50	50	50				
Options	Shaded Pole Mo Disc Brake	otor	Overload Pr Solenoid Br		• Op	en or closed	construction							



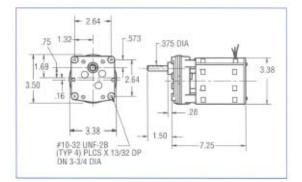
VW14 Overhung load 50 lbs., .44* from output boss



Input	Gearmotor Characteristics	Standard Gear Ratios													
Motor		18	31	50	63	98	161	314	482	975	1780				
2 Pole	F.L. Speed (RPM)	167	97	60	48	33	21	11	7	3.5	2				
60 Hz.	F.L. Torque (in-lbs.)	12	19	30	37	50	50	50	50	50	SO				
4 Pole	F.L. Speed (RPM)	89	52	32	25	16	10	5	3	1.6	1				
60 Hz.	F.L. Torque (in-lbs.)	12	19	30	37	50	50	50	50	50	50				
Options	Shaded Pole Motor Overload Protection		S.C. Motor olenoid Brak		Split-Phase I Electro-Mag	Motor netic Brake		citor Start I fuit Box	Motor	• 3-Phase	Motor				

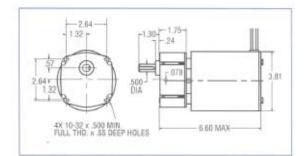






Input	Gearmotor		Standa	rd Gear	Ratios			
Motor	Characteristics	9.3	14	19	29	54		
2 Pole	F.L. Speed (RPM)	353	235	173	110	63		
60 Hz.	F.L. Torque (in-lbs.)	14	22	33	47	50		
4 Pole	F.L. Speed (RPM)	167	115	84	54	31		
60 Hz.	F.L. Torque (in-lbs.)	30	-44	50	50	50		
Options	Shaded Pole Moto Overload Protectio		• P.S.C. N • Solenoi			plit-Phase M lectro-Magn	Capacitor Start Motor Conduit Box	* 3-Phase Moto





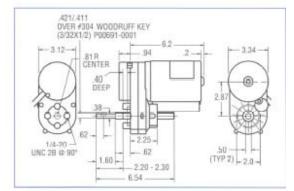


Input	Gearmotor	Standard Gear Ratios												
Motor	Characteristics	10	13	19	25	37	49	72	96	139	186	271		
4 Pole	F.L. Speed (RPM)	165	127	.07	66	45	34	23	17	12	9	6		
60 Hz.	F.L. Torque (in-lbs.)	26	34	49	64	86	100	100	100	100	100	100		
Options	Shaded Pole Overload Protection		P.S.C. Moto Solenoid B		Split Pha Electro-I		Brake	CapacitoConduit		tor	3 Phase	Motor		

Parallel Shaft

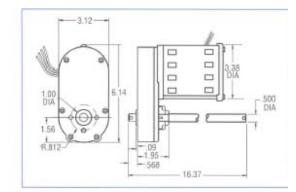


US76 Overhung load 100 lbs., 1" from output boss; Intermittent Duty



Input	Gearmotor							
Motor	Characteristic	4	7	11	16	19	28	
2 Pole	F.L. Speed (RPM)	800	434	280	196	168	114	
60 Hz.	F.L. Torque (in-lbs.)	6	11	16	24	28	39	
4 Pole	F.L. Speed (RPM)	400	217	140	98	84	57	
60 Hz.	F.L. Torque (in-lbs.)	12	22	33	48	57	78	
Options	P.S.C. Motor		Overli	oad Pro	tection		• Lim	it Switches
options	 Potentiometer 		Doub	le Outp	ut Shaf	t	* Ree	d Switch

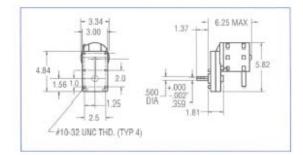




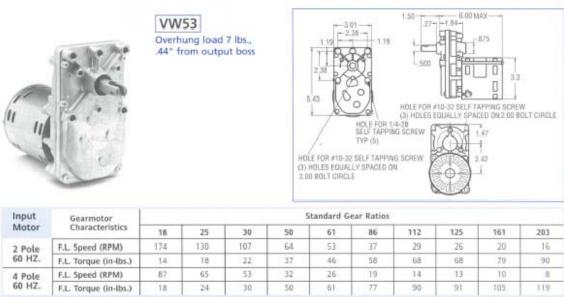
Input	Gearmotor		Standard Gear Ratios											
Motor	Characteristic	4	7	16	19	28	42	52	61	72				
2 Pole	F.L. Speed (RPM)	800	434	196	168	114	76	60	50	44				
60 HZ.	F.L. Torque (in-lbs.)	6	11	24	28	39	50	70	85	85				
4 Pole	F.L. Speed (RPM)	400	217	98	84	57	38	30	25	22				
60 HZ.	F.L. Torque (in-lbs.)	12	22	48	57	78	100	140	150	150				
Options	P.S.C. Motor Limit Switches	Overloa Reed Sv	d Protection vitch		noid Brake Switch		o-Magnetic I tiometer	0.0256	 Conduit Bo Double Out 					

AC GEARMOTORS





Input	Gearmotor		Sta	ndard (Gear R	atios			
Motor	Characteristics	16	34	65	97	163	311		
2 Pole	F.L. Speed (RPM)	200	94	49	33	19	11		
60 Hz.	F.L. Torque (in-lbs.)	13	27	48	74	124	150		
4 Pole	F.L. Speed (RPM)	100	47	25	16	10	5		
60 Hz.	F.L. Torque (in-lbs.)	13	27	48	74	124	150		
Options	Shaded Pole Motor	e 1	P.S.C.	Motor			Phase Motor	Capacitor Start Motor	* 3-Phase Motor
	 Overload Protectio 	n 3	 Solen 	oid Bra	ke	• Elect	tro-Magnetic Brake	 Conduit Box 	 Double Output Sha

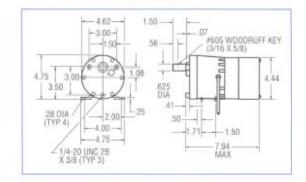


Options	Shaded Pole Motor Overload Protection	P.S.C. Motor Solenoid Brake	Split-Phase Motor Electro Magnetic Brake	Capacitor Start Motor Concluit Box	3-Phase Motor Double Output Shaft
	Overload Protection	 Solenoid Brake 	 Electro-Magnetic Brake 	Conduit Box	Double Output Shaft

Parallel Shaft

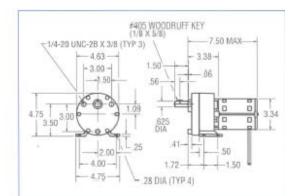
VW08 Overhung load 150 lbs., .94" from output boss





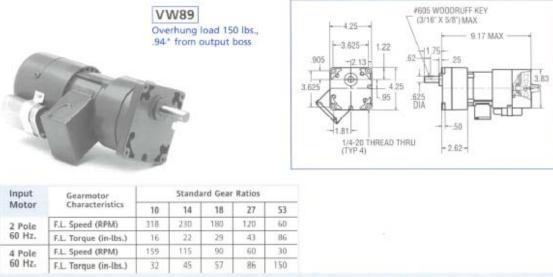
Gearmotor	L	5	tanda	rd Gea	ar Rati	os		
Characteristics	27	52	78	128	250	739	1446	
F.L. Speed (RPM)	58	32	22	14	7	2.4	1.2	
F.L. Torque (in-lbs.)	100	150	150	150	150	150	150	
								Capacitor Start Motor * 3-Phase Moto ake * Conduit Box
ł	Characteristics F.L. Speed (RPM) F.L. Torque (in-lbs.) • Shaded Pole Moto	Characteristics 27 F.L. Speed (RPM) 58	Characteristics 27 52 F.L. Speed (RPM) 58 32 F.L. Torque (in-lbs.) 100 150 • Shaded Pole Motor • P.	Characteristics 27 52 78 F.L. Speed (RPM) 58 32 22 F.L. Torque (in-lbs.) 100 150 150 • Shaded Pole Motor • P.S.C. M	Characteristics 27 52 78 128 F.L. Speed (RPM) 58 32 22 14 F.L. Torque (in-lbs.) 100 150 150 150 • Shaded Pole Motor • P.S.C. Motor	Characteristics 27 52 78 128 250 F.L. Speed (RPM) 58 32 22 14 7 F.L. Torque (in-lbs.) 100 150 150 150 150 • Shaded Pole Motor • P.S.C. Motor	Characteristics 27 52 78 128 250 739 F.L. Speed (RPM) 58 32 22 14 7 2.4 F.L. Torque (in-lbs.) 100 150 150 150 150 150 • Shaded Pole Motor • P.S.C. Motor • Split • Split • Split • Split	Characteristics 27 52 78 128 250 739 1446 F.L. Speed (RPM) 58 32 22 14 7 2.4 1.2 F.L. Torque (in-lbs.) 100 150 150 150 150 150 150 • Shaded Pole Motor • P.S.C. Motor • Split-Phase Motor







Input	Gearmotor	Standard Gear Ratios											
Motor	Characteristics	7	14	27	52	78	128	250	739	1446			
2 Pole	F.L. Speed (RPM)	441	224	120	62	41	26	14	5	2.4			
60 HZ.	F.L. Torque (in-lbs.)	13	24	40	77	130	150	150	150	150			
4 Pole	F.L. Speed (RPM)	214	109	58	30	21	13	7.0	2.4	1.2			
60 HZ.	F.L. Torque (in-lbs.)	24	43	67	130	150	150	150	150	150			
Options	• Shaded Pole Motor • Overload Protectio		S.C. Motor olenoid Brake		-Phase Moto tro-Magnetic		Capacitor St Conduit Box		• 3-Phas	e Motor			

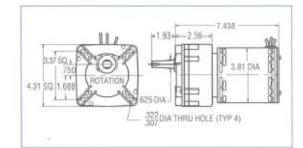


Options	Shaded Pole Motor	P.S.C. Motor	Split-Phase Motor	Capacitor Start Motor
options	 Overload Protection 	Solenoid Brake	Electro-Magnetic Brake	 Conduit Box







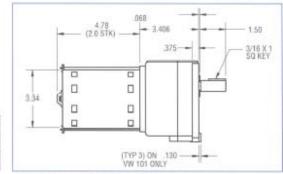


Input	Gearmotor	Standard Gear Ratios												
Motor	Characteristics	10	15	21	26	37	55	75	107	131	162	198	264	
2 Pole	F.L. Speed (RPM)	294	199	146	114	81	54	39	28	23	19	15	. 11	
60 HZ.	F.L. Torque (in-lbs.)	32	-48	66	84	112	167	226	302	373	460	500	500	
4 Pole	F.L. Speed (RPM)	147	99	73	57	40	27	20	14	11	9	8	6	
60 HZ.	F.L. Torque (in-lbs.)	64	96	130	165	224	332	452	500	500	500	500	500	
Options	Shaded Pole Moto Overload Protection		• P.S.C. M • Solenoi			-Phase Mi tro-Magne			apacitor Si anduit Bo	tart Motor x	•	3-Phase M	vlotor	

Parallel Shaft

VonWeise AC GEARMOTORS

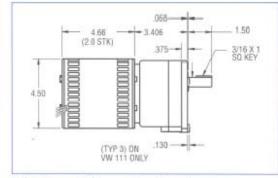




Refer to page 15 for mounting instructions.

Input	Gearmotor	Standard Gear Ratios												
Motor	Characteristics	10	15	21	26	37	55	75	107	131	162	198	264	
2 Pole	F.L. Speed (RPM)	314	212	156	122	86	58	42	30	24	20	16	12	
60 HZ.	F.L. Torque (in-lbs.)	18	27	37	47	63	94	127	170	210	259	318	425	
4 Pole	F.L. Speed (RPM)	157	106	78	61	43	29	21	15	12	10	8	. (
50 HZ.	F.L. Torque (in-lbs.)	36	54	73	93	126	187	254	340	420	500	500	500	
Options	Shaded Pole Motor Overload Protectio		• P.S.C. M • Solenoid			-Phase Me tro-Magne	otor tic Brake		pacitor Si anduit Bo	tart Motor x	•	3-Phase M	Motor	





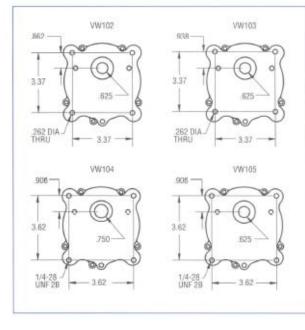
Refer to page 15 for mounting instructions.

Input	Gearmotor	Standard Gear Ratios											
Motor	Characteristics	6.9	10	14	18	25	38	51	80	109	134		
2 Pole	F.L. Speed (RPM)	464	313	230	182	127	85	63	40	30	24		
60 HZ.	F.L. Torque (in-lbs.)	26	39	52	66	90	134	182	287	382	478		
4 Pole	F.L. Speed (RPM)	232	156	115	91	63	43	31	20	15	12		
60 HZ.	F.L. Torque (in-lbs.)	52	77	105	130	180	265	360	500	500	500		
Options	Shaded Pole Motor Overload Protection		P.S.C. Moto Solenoid B		plit-Phase Mectro-Mag		1.00.255	acitor Start duit Box	Motor	• 3-Phase	Motor		

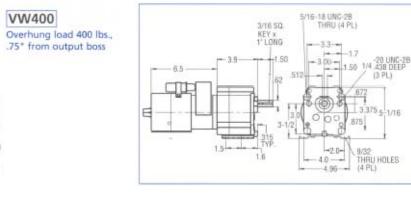
Parallel Shaft

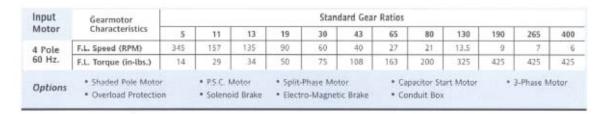
Genesis Mounting

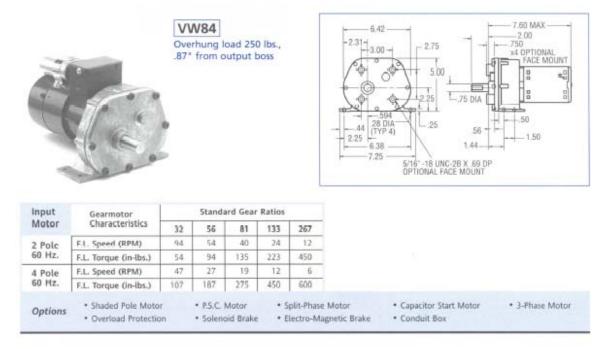
The options at the right illustrate the available mounting configurations for the Genesis Style Gearmotors.







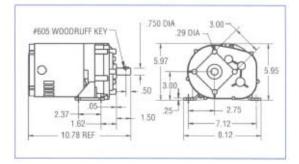




		Over	V47 hung lo from o				5/16-18 UNC 28 X 3/4 (TVP 4) 2 00 3.34 2 00 2 0 2
-	J.						
Input	Gearmotor		Standa	rd Gear	Ratios		
Input Motor	Gearmotor Characteristics	131	Standa 249	rd Gear 540	Ratios 827	1586	
		131 25				1586 2	
Motor	Characteristics		249	540	827		
Motor 2 Pole	Characteristics F.L. Speed (RPM)	25	249 12	540 6	827	2	

Parallel Shaft

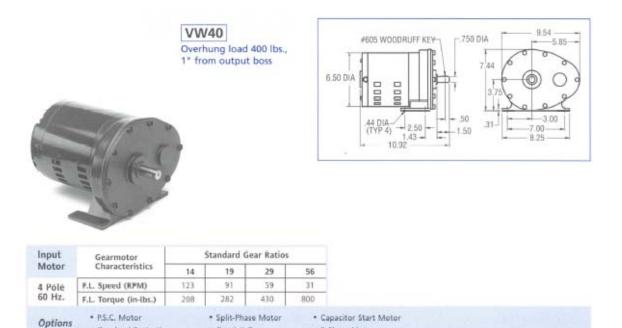
VW20 Overhung load 75 lbs., .60" from output boss





· Overload Protection

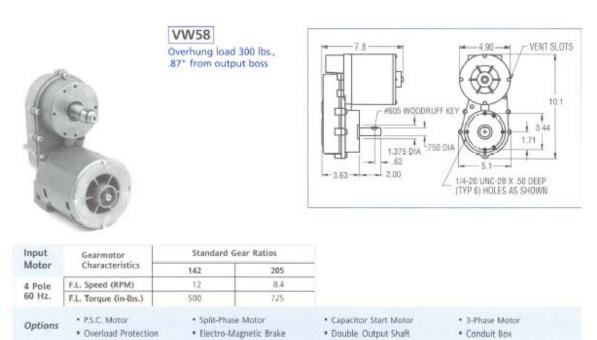
nput	Gearmotor	L		Stand	dard	Gear	Ratio	5	
Motor	Characteristics	14	19	28	42	57	92	143	290
4 Pole	F.L. Speed (RPM)	123	89	63	41	30	20	12	6
60 Hz.	F.L. Torque (in-lbs.)	112	155	220	336	413	600	600	600
Options	P.S.C. Motor Överload Protection	m			lit-Phi nduit	ise Mi Box	otor		:



· 3-Phase Motor

· Conduit Box

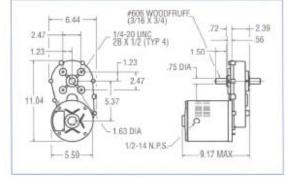
			Over		g lo		800 lbs			2.13	() + () () () () () () () () () () () () ()	FF KEY 1X 5/8) DIA 63 1.50 3.38
Input	Gearmotor	Ē		Sta	ndar	d Ge	ar Rat	ios				
Motor	Characteristics	32	56	81	133	267	1458*	2261*	4539*			
2 Pole	F.L. Speed (RPM)	94	54	40	24	12	2.3	1.5	0.7			
60 Hz.	F.L. Torque (in-lbs.)	54	94	135	223	450	600	600	600			
4 Pole	F.L. Speed (RPM)	47	27	19	12	6	1,2	0.8	0.4			
60 Hz.	F.L. Torque (in-lbs.)	107	187	275	450	600	600	600	600			
Options	 Shaded Pole Overload Protect 	ion		P.S.C Sole			P			Motor gnetic Brake	Capacitor Start Motor Double Output Shaft	3-Phase Motor Conduit Box



AC GEARMOTORS

Parallel Shaft

VW34 Overhung load 300 lbs., 1* from output boss



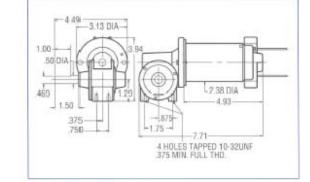


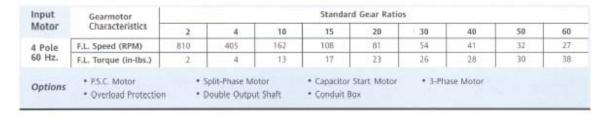
Input	Gearmotor	Sta	ndard Gear Ratios			
Motor	Characteristics	143	214	290		
4 Pole	F.L. Speed (RPM)	12	8	6		
60 Hz.	F.L. Torque (in-lbs.)	950	1400	1500		
Options	P.S.C. Motor Overload Protection	and the second second	lit-Phase Motor ouble Output Shaft		Capacitor Start Motor Conduit Box	* 3-Phase Motor

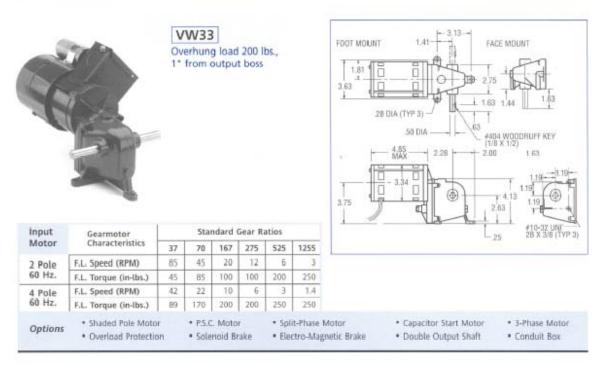
Right Angle

VW26

Overhung load 150 lbs., .94" from output boss

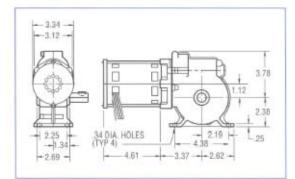






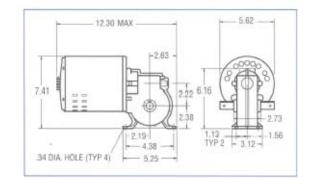
Right Angle





Input	Gearmotor	Standard Gear R	tatios	
Motor	Characteristics	148	295	
2 Pole	F.L. Speed (RPM)	22	11	
60 Hz.	F.L. Torque (in-lbs.)	140	185	
4 Pole	F.L. Speed (RPM)	11	5.5	
60 Hz.	F.L. Torque (in-lbs.)	280	370	
Options	Shaded Pole Motor Overload Protection	P.S.C. Motor Solenoid Brake	 Split-Phase Motor Electro-Magnetic Brake 	Capacitor Start I Double Output



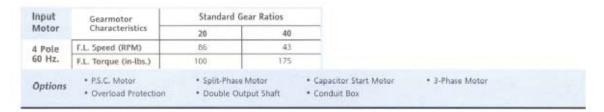


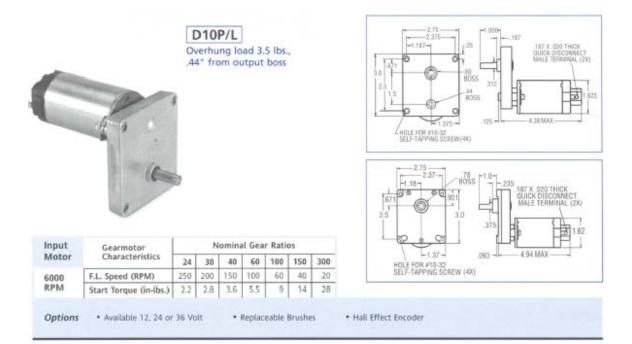
Motor

Shaft

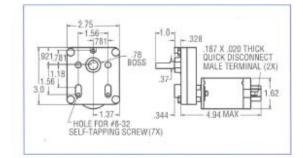
• 3-Phase Motor

· Conduit Box







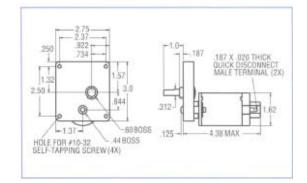




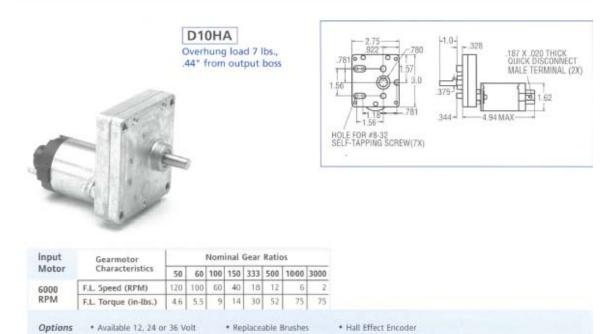
Input	Gearmotor				No	ominal Gea	Ratios				
Motor	Characteristics	24	30	40	60	100	150	333	500	1000	1500
6000	F.L. Speed (RPM)	250	200	150	100	60	40	18	12	6	4
6000 RPM	F.L. Torque (in-lbs.)	2.2	2.8	3.6	5.5	9	14	30	52	75	-75

D10PA Overhung load 3.5 lbs., .44" from output boss



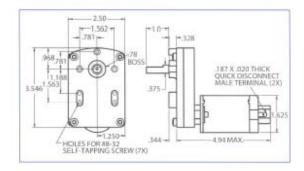


Input	Gearmotor				No	minal Gea	r Ratios				
Motor	Characteristics	24	30	40	60	100	150	333	500	1000	3000
6000	F.L. Speed (RPM)	250	200	150	100	60	40	18	12	6	2
RPM	F.L. Torque (in-lbs.)	2.2	2.8	3.6	5.5	9	14	30	45	45	45





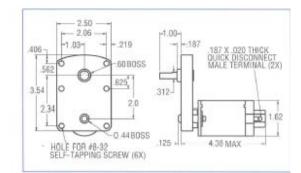




Input	Gearmotor				N	ominal Gea	r Ratios				
Motor	Characteristics	17	25	32	50	59	86	150	250	500	750
6000	F.L. Speed (RPM)	350	240	190	120	102	70	40	24	12	В
RPM	F.L. Torque (in-lbs.)	1,6	2.2	4.2	5	6	8	14	23	75	75
Options	Available 12, 24 or	36 Volt	• Rep	laceable Bri	ushes	• Hall I	Effect Encor	ier	• Double C	Output Shaft	E.





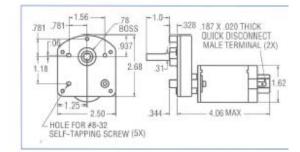


Input	Gearmotor				Ne	ominal Gear	r Ratios				
Motor	Characteristics	17	25	32	50	59	86	150	250	500	750
6000	F.L. Speed (RPM)	350	240	190	120	102	70	40	24	12	В
RPM	F.L. Torque (in-lbs.)	1.6	2.2	4.2	5	6	8	14	23	45	45

DC GEARMOTORS

D3P/L -1.0-2.06 187 X 020 THICK QUICK DISCONNECT MALE TERMINAL (2X) +1.03--.593 Overhung load 3.5 lbs. 203 .44* from output boss 937 ł Ø 1 25 2.68 1.71 62 ٢ þ B 1.25 125 4.06 MAX-2.50 HOLE FOR #8-32 SELF-TAPPING SCREW (4X) Input Nominal Gear Ratios Gearmotor Motor Characteristics 12 17 25 30 38 50 75 100 500 360 240 200 160 120 80 60 F.L. Speed (RPM) 6000 RPM 1.6 2.2 2.8 3.5 7 F.L. Torque (in-lbs.) 1.2 5 9 Options · Available 12, 24 or 36 Volt Replaceable Brushes · Hall Effect Encoder · Double Output Shaft





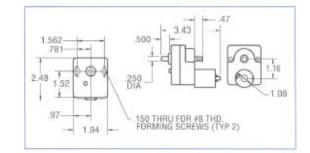


nput	Gearmotor		_	10111	met c	real a	tatios	-		
Aotor	Characteristics	12	17	25	30	38	50	75	100	
000	F.L. Speed (RPM)	500	360	240	200	160	120	80	60	
PM	F.L. Torque (in-lbs.)	1.2	1.6	2.2	2.8	3.5	5	7	9	

VW63

Parallel Shaft

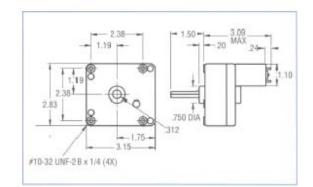




Input	Gearmotor		N	omina	d Gea	r Rati	05		
Motor	Characteristics	59	101	141	262	491	842	1273	
2850	F.L. Speed (RPM)	49	28	20	11	6	. 4	3	
RPM	F.L. Torque (in-lbs.)	1.0	1.6	2.3	4.3	6.3	6.3	6.3	

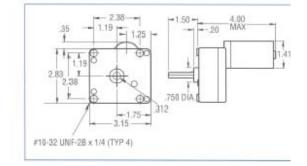


VW15 Overhung load 50 lbs., .44* from output boss



Input	Gearmotor			Stan	dard	Gear	Rati	05	
Motor	Characteristics	33	50	100	155	260	515	1531	3085
2850 RPM	F.L. Speed (RPM)	87	57	29	18	11	5.6	2	1
RPM	F.L. Torque (in-lbs.)	0.6	11	2	3	4	8	23	46

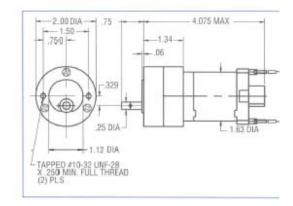




input	Gearmotor	-		Stan	dard	Gear	Rati	05	
Motor	Characteristics	19	31	76	103	169	329	1048	1811
3700	F.L. Speed (RPM)	195	119	49	36	22	11	3.5	2
RPM	F.L. Torque (in-lbs.)	2	3	8	11	18	36	50	50

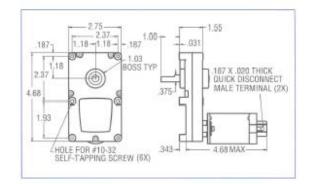






Input	Gearmotor				St	andard Ge	ar Ratios				
Motor	Characteristics	8.3	15	33	79	133	300	533	1200	2133	5071
2900	F.L. Speed (RPM)	355	200	85	35	20	10	6	2.5	1.5	0.6
RPM	F.L. Torque (ozin.)	4.5	В	18	43	63	90	90	90	90	40





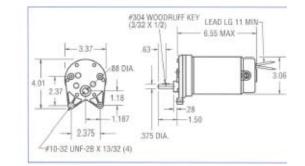
input	Gearmotor		Nor	ninal G	iear Ra	tios		
Motor	Characteristics	125	250	500	750	1500	3000	
6000	F.L. Speed (RPM)	48	24	12	8	4	2	
RPM	F.L. Torque (in-lbs.)	17	35	79	105	200	200	



6.30 MAX--2.38---1.00-1.19 +-20 50 1.13 2.83 1 3.50 2.50 Q. 2.38 1 00 750 DIA -1.75 -312 DIA 3.15----#10-32 UNF -28 x 1/4 (TYP 4)

Input	Gearmotor				Sta	indard Gea	ar Ratios				
Motor	Characteristics	18	31	50	63	98	161	314	482	975	1780
3000	F.L. Speed (RPM)	166	96	60	47	31	19	10	7	3.4	2
RPM	F.L. Torque (in-lbs.)	11	18	28	36	50	50	50	50	50	50

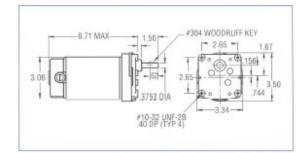




	rmotor		Stand	ard Gear	Ratios		
Motor Cha	racteristics	9.3	14	19	29	54	
3300 F.L. Spe	ed (RPM)	356	244	178	113	62	
RPM F.L. Tor	que (in-lbs.)	11	16	22	35	50	
1650 F.L. Spe	ed (RPM)	178	122	89	58	34	
RPM F.L. Tor	que (in-lbs.)	19	27	38	50	50	
Options	ilable 12 - 90 V tro-Magnetic E			1000	ible Brust Speed Co		 Internal Brushes

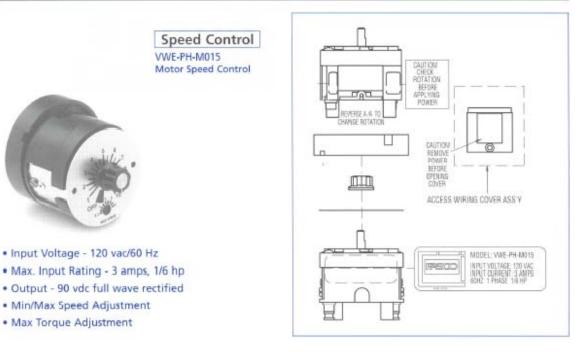
Parallel Shaft





Input	Gearmotor		Standa	ard Gear	Ratios	
Motor	Characteristics	9,3	14	19	29	54
3300	F.L. Speed (RPM)	356	244	178	113	62
RPM	F.L. Torque (in-lbs.)	11	16	22	35	50
1650	F.L. Speed (RPM)	178	122	89	58	34
RPM	F.L. Torque (in-lbs.)	19	27	38	50	50
Options	Available 12 - 90 V Electro-Magnetic 8			1.	ible Brush Speed Co	

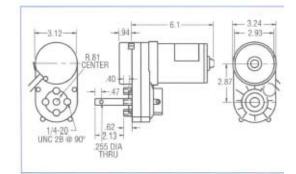
· Internal Brushes



Parallel Shaft



US76 Overhung load 100 lbs., 1.0" from output boss; Intermittent Duty

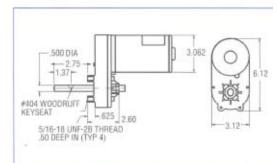


Input	Gearmotor	i	Star	ndard (Gear R	atios		
Motor	Characteristic	4	7	11	16	19	28	
3200	F.L. Speed (RPM)	800	434	280	196	168	114	
RPM	F.L. Torque (in-lbs.)	6	11	16	24	28	39	
1600	F.L. Speed (RPM)	400	217	140	98	84	57	
RPM	F.L. Torque (in-lbs.)	12	22	33	48	57	78	
Options	Available 12 - 48 \ Potentiometer	/olt		nternal Jouble				Limit Switches Reed Switch

VW76

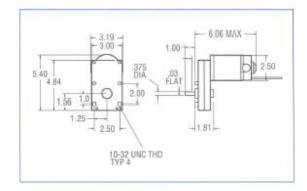
Overhung load 100 lbs., 1.0" from output boss;

Intermittent Duty

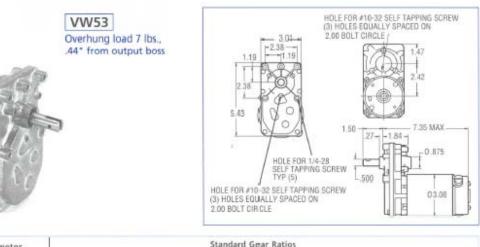


Input	Gearmotor				Stand	lard Gear Ra	itios			
Motor	Characteristic	4	7	16	19	28	42	52	61	72
3200	F.L. Speed (RPM)	800	434	196	168	114	76	60	50	44
RPM	F.L. Torque (in-lbs.)	6	11	24	28	39	50	70	85	85
I G00	F.L. Speed (RPM)	400	217	98	84	57	38	30	25	22
RPM	F.L. Torque (in-lbs.)	12	22	48	57	78	1.00	140	150	150





Input	Gearmotor	-	5tar	idard (Sear Ra	atios		
Motor	Characteristics	16	34	65	97	163	311	
3000	F.L. Speed (RPM)	188	88	46	31	18	10	
RPM	F.L. Torque (in-lbs.)	9	19	35	52	87	150	
Options	Available 12 - 180 Double Output Sh			Replac		rushes 1 Contro	ol	Internal Brushes

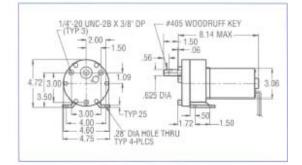


Gearmotor				Sta	andard Gea	r Ratios				
Characteristics	18	25	30	50	61	86	112	125	161	203
F.L. Speed (RPM)	94	70	58	35	28	20	15	14	11	8
F.L. Torque (in-lbs.)	20	11	33	54	66	84	99	99	115	130
	Characteristics F.L. Speed (RPM)	Characteristics 18 F.L. Speed (RPM) 94	Characteristics 18 25 F.L. Speed (RPM) 94 70	Characteristics 18 25 30 F.L. Speed (RPM) 94 70 58	Characteristics 18 25 30 50 F.L. Speed (RPM) 94 70 58 35	Characteristics 18 25 30 50 61 F.L. Speed (RPM) 94 70 58 35 28	Characteristics 18 25 30 50 61 86 F.L. Speed (RPM) 94 70 58 35 28 20	Characteristics 18 25 30 50 61 86 112 F.L. Speed (RPM) 94 70 58 35 28 20 15	Characteristics 18 25 30 50 61 86 112 125 F.L. Speed (RPM) 94 70 58 35 28 20 15 14	Characteristics 18 25 30 50 61 86 112 125 161 F.L. Speed (RPM) 94 70 58 35 28 20 15 14 11

Parallel Shaft

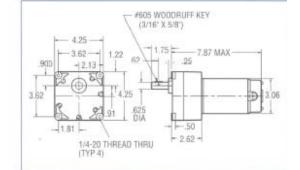
VW88 Overhung load 150 lbs., .94" from output boss





Input	Gearmotor				Stand	ard Gear Ra	tios			
Motor	Characteristics	7.2	14.3	27	52	78	128	250	739	1446
3300	F.L. Speed (RPM)	455	231	123	64	42	26	14	4.6	2.4
RPM	F.L. Torque (in-lbs.)	11	20	36	70	102	150	150	150	150
1650	F.L. Speed (RPM)	228	115	62	32	22	13	7	2.5	1.3
RPM	F.L. Torque (in-lbs.)	18	34	61	119	150	150	150	150	150
Options	Available 12 - 90 Vo Electro-Magnetic Br			able Brushes Speed Control		Internal Brus	hes			







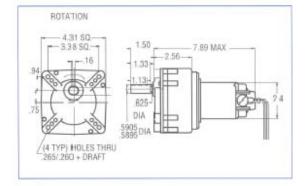
Input	Gearmotor		Stand	ard Gear	Ratios	
Motor	Characteristics	10	14	18	27	53
3300	F.L. Speed (RPM)	330	236	183	122	62
RPM	F.L. Torque (in-lbs.)	12	17	21	32	63
1650	F.L. Speed (RPM)	165	118	92	61	31
RPM	F.L. Torque (in-lbs.)	20	28	36	54	106
Options	Available 12 - 90 \ Electro-Magnetic E				ible Brus Speed Co	

Internal Brushes

Parallel Shaft

VW51 Overhung load 200 lbs., .75" from output boss





Gearmotor Characteristics	Standard Gear Ratios											
	13	19	25	32	46	69	93	132	162	200	245	327
000 F.L. Speed (RPM)	159	107	79	62	43	29	21	15	12	10	8	б
F.L. Torque (in-lbs.)	24	35	48	61	79	117	159	202	24B	306	375	500
	Characteristics F.L. Speed (RPM)	Characteristics 13 F.L. Speed (RPM) 159	Characteristics 13 19 F.L. Speed (RPM) 159 107	Characteristics 13 19 25 F.L. Speed (RPM) 159 107 79	Characteristics 13 19 25 32 F.L. Speed (RPM) 159 107 79 62	Characteristics 13 19 25 32 46 F.L. Speed (RPM) 159 107 79 62 43	Characteristics 13 19 25 32 46 69 F.L. Speed (RPM) 159 107 79 62 43 29	Characteristics 13 19 25 32 46 69 93 F.L. Speed (RPM) 159 107 79 62 43 29 21	Characteristics 13 19 25 32 46 69 93 132 F.L. Speed (RPM) 159 107 79 62 43 29 21 15	Characteristics 13 19 25 32 46 69 93 132 162 F.L. Speed (RPM) 159 107 79 62 43 29 21 15 12	Characteristics 13 19 25 32 46 69 93 132 162 200 F.L. Speed (RPM) 159 107 79 62 43 29 21 15 12 10	Characteristics 13 19 25 32 46 69 93 132 162 200 245 F.L. Speed (RPM) 159 107 79 62 43 29 21 15 12 10 8





Refer to page 15 for mounting instructions.

Input Motor	Gearmotor Characteristics	Standard Gear Ratios											
		10	15	21	26	37	55	75	107	131	162	198	264
3200 RPM	F.L. Speed (RPM)	314	212	156	122	85	58	42	30	24	20	16	12
	F.L. Torque (in-lbs.)	18	27	37	47	63	94	127	170	210	259	324	425
1600 RPM	F.L. Speed (RPM)	157	106	78	61	43	29	21	15	12	10	8	6
	F.L. Torque (in-lbs.)	30	45	61	78	105	156	212	283	350	432	500	500
Options	Available 12 - 90 \ Electro-Magnetic E												

JonWeise DC GEARMOTORS

Parallel Shaft



#605 WODDRUFF KEY (3/16 X 5/8) 1.50+ 8.63 MAX-6.44-- .56 1 2.31-.63 B 2.25 0 3.06 Þİ 75 DIA +1.50 2.25 25 .56 +F 44 1.44-- 6.37 28 DIA (TYP 4) 7.25

Input	Gearmotor		Standard Gear Ratios										
Motor	Characteristics	32	56	81	133	267							
3300	F.L. Speed (RPM)	103	58	40	24	12							
RPM	F.L. Torque (in-lbs.)	39	68	98	162	325							
1650	F.L. Speed (RPM)	51	29	20	12	6							
RPM	F.L. Torque (in-lbs.)	65	114	167	276	553							
Options	Available 12 - 90 V Electro-Magnetic E				ble Brust Speed Co								

5/16-18 UNC-28 x 3/4 (TYP 4) 2.00 2.00 3.34 E Ł 9.03 2.00 þ 3.06 1.000 .997 DIA 2.00 3.38 .63 -2.44 1.06 -- 3.47--3.69 - 9.25 MAX -6.94 -

Internal Brushes



Over	hung	load	550 lbs.,
			ut boss

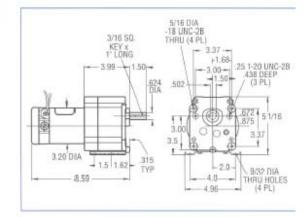
Input	Gearmotor	3	Standard	Gear Ratio	§		
Motor	Characteristics	249	540	827	1586		
3300	F.L. Speed (RPM)	12	6	4	2		
RPM	F.L. Torque (in-lbs.)	750	1400	950	1900		
1650	F.L. Speed (RPM)	6	3	2	1		
RPM	F.L. Torque (in-lbs.)	1033	2084	1650	3000		
Options	Available 12 - 90 V Electro-Magnetic B			aceable Bri gral Speed		Internal Brushes	

VonWeise DC GEARMOTORS

VW400

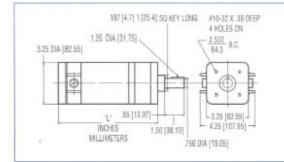
Parallel Shaft

Overhung load 400 lbs., .75" from output boss



	Gearmotor	Standard Gear Ratios														
Motor	Characteristics	5	11	13	19	30	43	65	80	130	190	265	400			
1725	F.L. Speed (RPM)	345	157	135	90	60	40	27	21	13.5	9	7	6			
RPM	F.L. Torque (in-lbs.)	28	58	68	100	150	215	325	370	375	425	425	425			







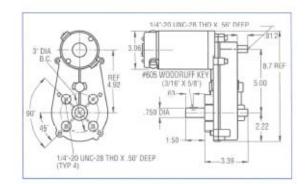
	Gearmotor		Standa	ard Gear	Ratios	
Notor	Characteristics	6	36	216	1296	7776
1725	F.L. Speed (RPM)	288	48	8	1.3	0.02
RPM	F.L. Torque (in-lbs.)	35	200	. 375	375	475

DC GEARMOTORS

Parallel Shaft

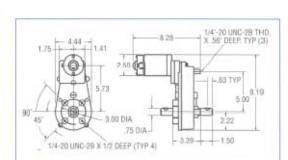


VW62 Overhung load 300 lbs., .87" from output boss



Input	C. C		Standa	ard Gear	Ratios		
Motor	Characteristics	32	56	81	133	267	
3300	F.L. Speed (RPM)	103	58	40	24	12	
RPM	F.L. Torque (in-lbs.)	39	68	86	162	325	
1650	F.L. Speed (RPM)	51	29	20	12	6	
RPM	F.L. Torque (in-lbs.)	65	114	167	276	553	
Öptions	Available 12 - 90 \ Double Output 5h			Contraction of the second	a Brushes gnetic Br		Internal Brushes Integral Speed Control

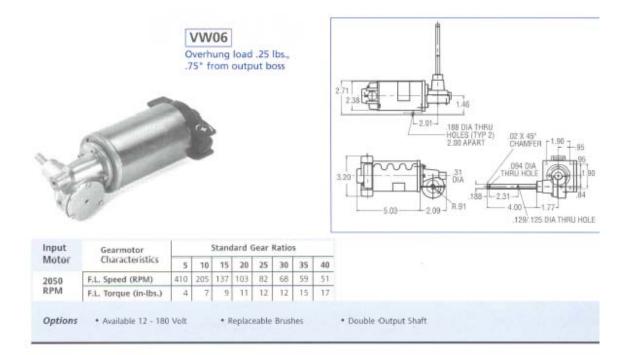
VW62S



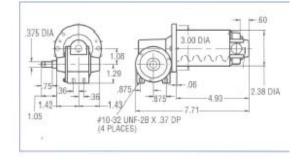


iput	Gearmotor	Star	idard Gear Ra	tios	
lotor	Characteristics	1458	2261	4539	
000	F.L. Speed (RPM)	2	1.2	0.6	
PM	F.L. Torque (in-lbs.)	600	600	600	

JonWeise DC GEARMOTORS





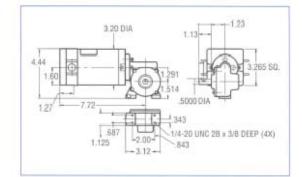




Input	Gearmotor	Standard Gear Ratios													
Motor	Characteristics	2	4	10	15	20	30	40	50	60					
1750 RPM	F.L. Speed (RPM)	875	437	175	117	88	.58	44	35	29					
RPM	F.L. Torque (in-lbs.)	2	.4	13	17	23	26	28	30	38					

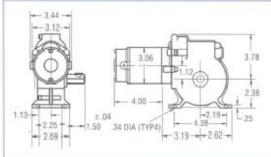
DC GEARMOTORS





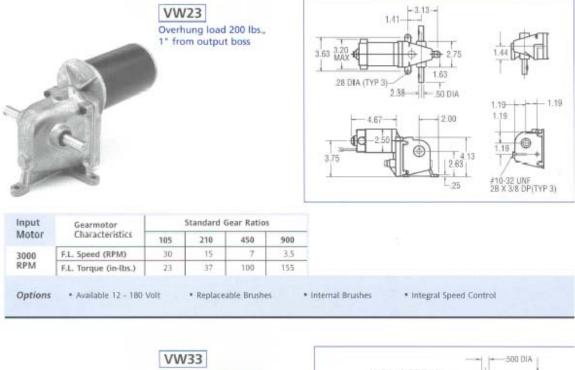
nput	Gearmotor			Stand	ard (Sear	Ratio	3		
Motor	Characteristics	5	10	15	20	30	40	50	60	
1725	F.L. Speed (RPM)	345	175	115	86	58	43	35	29	
1725 RPM	F.L. Torque (in-lbs.)	26	35	50	65	80	100	120	135	

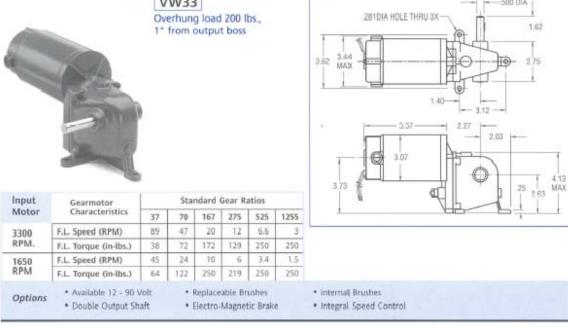




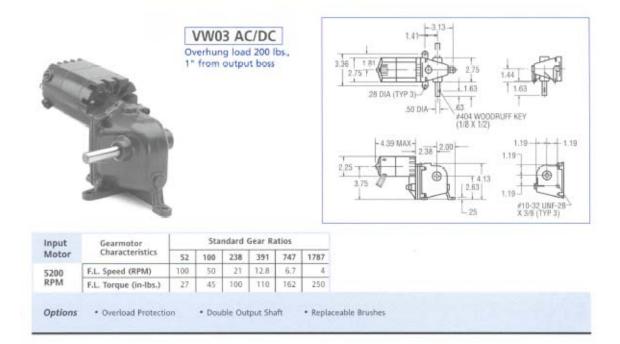
nput	Gearmotor	Standard Ge	ar Ratios	
lotor	Characteristics	148	295	(market)
300	F.L. Speed (RPM)	22	11	
PM	F.L. Torque (in-lbs.)	120	155	
650	F.L. Speed (RPM)	1t .	Б	
PM	F.L. Torque (in-lbs.)	200	260	
ptions	Available 12 - 90 Volt	 Replaceat 	ole Brushes	Internal Brushes
puons	Double Output Shaft	 Electro-M 	lagnetic Brake	 Integral Speed Control

VonWeise DC GEARMOTORS



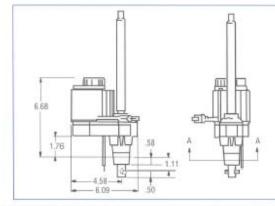


JonWeise DC GEARMOTORS





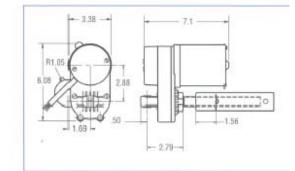
VW76H



Input Motor	Gearmotor	Total Ratio (Gear Ratio/Screw Lead) Reference													
Motor	Characteristic	42	56	61	70	83	102	111	122	147	163	196	240	295	393
1.24	F.L. Speed (in-min.)	59	-44	40	35	29	24	22	20	- 17	15	12	10	8	6
2 Pole 60 Hz.	F.L. Thrust (lbs.)	81	110	118	110	165	160	187	242	285	273	390	476	585	660
00 112.	Starting Thrust (lbs.)	93	127	136	126	190	184	215	278	328	314	448	547	673	759
Options	PSC Motor Extension Tube		erload Pr ne Nut N	otection Aount		imit Swi Just Cov		• Ree • Bac	d Switch R		Opto Swi Rear Sha			otention	neter



VW76AC



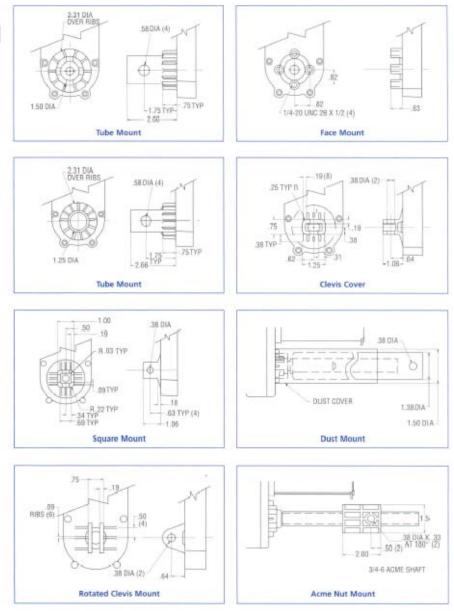
Input	Gearmotor						, 8	Total	Rat	io (C	iear	Ratio	o/Scr	ew L	ead)	Refe	ren	93							
Motor	Characteristic	12	16	20	24	30	32	37	44	49	57	65	76	81	84	98	115	130	140	153	168	224	249	330	43
	F.L. Speed (in-min.	130	98	78	65	53	49	42	35	32	27	24	20	19	18	16	14	12	11	10	.9	- 7	6	5	
4 Pole 60 Hz.	F.L. Thrust (lbs.)	120	178	138	208	256	235	222	325	413	485	566	600	490	600	600	600	600	600	600	600	600	600	600	60
00 112.	Starting Thrust (lb	i.) 120	178	138	208	256	235	222	325	413	485	566	664	490	714	718	842	754	845	885	850	893	1000	1000	100
		baci	drive	alert																			_		
Options	* PSC Motor	Overla	ad P	rotec	tion	• 5	Solen	oid B	Irake	•	Elec	tro-N	Aagne	etic B	rake	•	Limi	t Swi	tches		Ree	ed Sv	vitch		
options	* Opto Switch	Poten	tiome	ter		* [Exten	sìon	Tube		Acri	ie Ni	it Mo	unt			Dust	Cov	er		Rea	r Sh	aft Ex	tensi	ion

MonWeise ACTUATORS

VW76 Mounting

Mounting Options for Linear Actuators

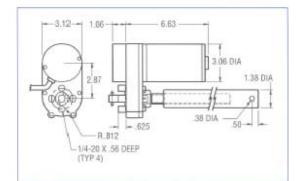
- Optional mounting available for AC or DC model VW76
- Optional rear shaft extension available with tube, face, or square mount
- Plastic dust cover available to shield acme screw
- Direct mounting to Delrin acme nut available





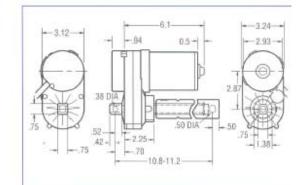
VW76DC





Input	Gearmotor							Total	Rati	io (G	iear I	Ratio	o/Ser	ew L	ead)	Refe	eren	зe							
Motor	Characteristics	12	16	20	24	30	32	37	44	49	57	65	76	81	84	98	115	130	140	153	168	224	249	330	43
0000	F.L. Speed (in-min.)	130	98	78	65	53	49	42	35	32	27	24	2:0	19	18	16	14	12	11	10	9	7	6	5	
1600 RPM	F.L. Thrust (lbs.)	120	17B	138	208	256	235	222	325	413	485	566	600	490	600	600	600	600	600	600	600	600	600	600	601
DO: IVI	Starting Thrust (lbs.)	120	178	138	208	256	235	222	325	413	485	566	664	490	714	718	842	754	845	885	850	893	1000	1000	100
		back	drive a	olevt			10-0																		
Options	• Available 12 - 90 V	olt	• E	lectro	-Maj	meti	c Bra	ke	• 1	.imit	Swite	hes		Reed	Swit	ch	+ (opto	Swite	th.		• Pc	tenti	omet	er
options	 Extension Tube 		+ A	cme	Nut I	Mour	30		• 0	Just	Cover			Boot			• 6	lear S	shaft	Exte	nsion				





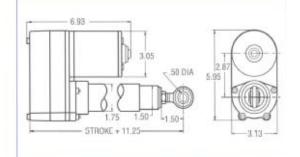
Input	Gearmotor							Total	Rat	io (G	iear l	Ratio	scr	ew I	ead)	Refe	ren	ce:							
Motor	Characteristic	12	16	20	24	30	34	37	44	46	49	57	65	69	76	81	84	91	98	115	130	141	153	169	225
	F.L. Speed (in-min.)	130	98	78	65	53	46	42	35	34	32	27	24	23	20	19	18	17	16	14	12	11	10	9	1
1600 RPM	F.L. Thrust (lbs.)	120	178	138	208	256	290	222	325	397	413	485	566	503	600	490	600	529	600	600	600	600	600	600	600
	Starting Thrust (lbs.)	120	178	138	208	256	290	222	325	397	413	485	566	503	664	490	714	529	718	842	754	845	885	850	893
		buck	drive a	olert																					
Options	• Available 12 - 90 V	olt		Limi	t Swit	ches		• 8	eed S	Świtc	h	•	Poter	ntion	eter			• Ext	ensio	n Tu	be				
options	 Acme Nut Mount 			Dust	Cov	er.		+8	ody !	Shrou	bi		Rear	Shaft	t Exte	nsion	1								

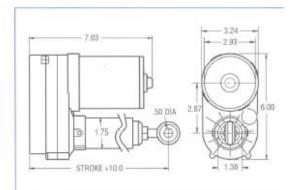
JonWeise ACTUATORS

C-Band Satellite Actuators







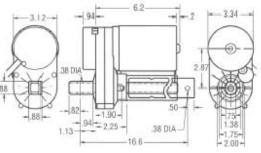




Performance at 36 VDC			M	odel Number			
renormance at 50 voc	V76-3	V76-5	V76-10	VW-18	VW-18LC	VW-24	VW-24LC
Full Load Speed (in-min.)	11	11	41.5	11	H	11	11
Full Load Amps	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Full Load Thrust (lbs.)	600	600	600	600	600	600	600
Starting Thrust (lbs.)	800	800	800	800	800	800	800
Stroke Length (in)	24	24	18	18	18	24	24
Feedback Device	Pot	Reed	Reed	Reed	Reed	Reed	Reed
Resolution (counts/in)	400	48	48	48	24	48	24
• 36 volt	• 18" or 2	4" travel	• Limit Switches		Reed Switch	• Potentio	ometer
Opto Switch	• Tube Mr	ount	* Boot		Clamp Kit		

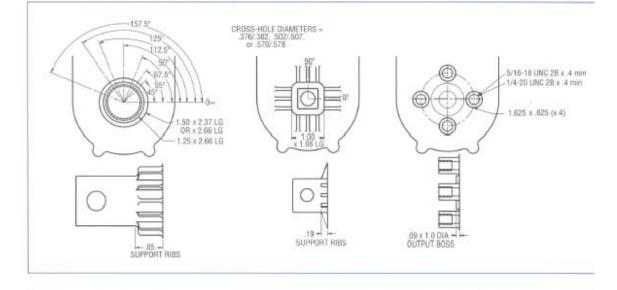






Input	Gearmotor	Ľ						Total	Rat	io (G	iear	Ratio	/Scr	ew L	ead)	Refe	eren	.e							
Motor	Characteristic	12	16	20	24	30	34	37	44	46	49	57	65	69	76	81	84	91	98	115	130	141	153	169	22
	F.L. Speed (in-min.)	130	98	78	65	53	46	42	35	34	32	27	24	23	20	19	18	17	16	14	12	11	10	9	
4 Pole 60 Hz.	F.L. Thrust (lbs.)	120	178	138	208	256	290	222	325	397	413	485	566	503	600	490	600	529	600	600	600	600	600	600	60
00 112.	Starting Thrust (lbs.)	120	178	138	208	256	290	222	325	397	413	485	566	503	664	490	714	529	718	842	754	845	885	850	89
		back	drive i	olevt																					
Options	PSC Motor		Over	load	Prot	ectio	n		Lin	nit Sv	vitche	15		• Red	ed Sw	ritch			• Po	tentio	omet	er			
options	 Extension Tube 		Acm	e Nu	t Mo	unt			· Du	st Co	ver		13	* Boi	dy Sh	roud			• Re	ar Sh	aft E	xtens	sion		





VonWeise ACTUATORS

Feedback Options

Limit Switches

Linear actuators are equipped with switches to shut off power to the electric motor at each end of travel. By removing the switch box cover, the top switch can be rotated to adjust travel in either the extended or retracted direction. The general policy is that the top switch limits travel at the extent where the actuator is shut off for shipping, however, that can be changed by specific request.

Sensing Switch

A third switch can be added along with the limit switches to sense a position in mid travel. This can allow auxiliary functions to be turned on or off. The additional height to house the switch is shown below. Tooling may be required for some actuating position requirements.

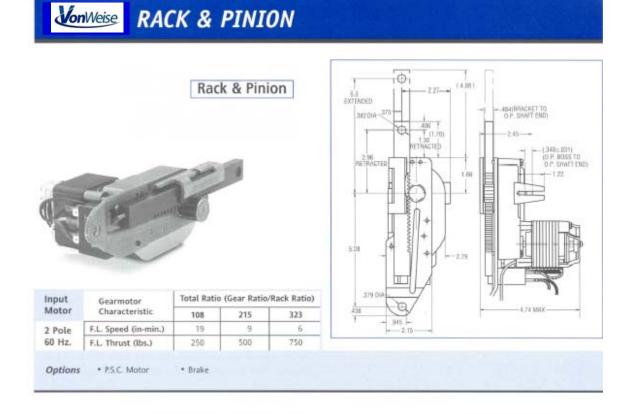
Reed Switch

A Reed switch can be added for positional feedback on some models. It is available with or without limit switches and brings about no exterior dimensional changes. The resolution on this digital signal varies with total ratio and can be equal to or exactly half the value shown on the accompanying chart.

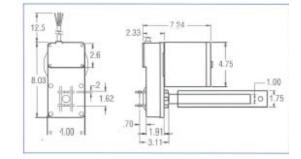
Potentiometer

A potentiometer can be added for continuous analog feedback. If used without limit switches, the actuator will come in the standard dimensional package. Both 1K Ohm and 10K Ohm potentiometers are available, with 10K standard for optimal life and resolution. The combination of total ratio and timing gear ratio determines what percentage of full potentiometer resolution will be used. The accompanying chart shows optimum settings available.

Feedback	Timing Gear									Total	Ratio	(Gea	ar Rat	tio/Se	rew	Lead) Ref	erenc	e						
Options	Ratio	12	16	20	24	30	32	37	44	49	57	65	76	81	84	98	115	130	140	153	168	224	249	330	439
		3.25	434	5.42	n/a	rv/a	n/a	n/a	n/a	13.25	15,55	17.67	20.73	22.09	n/a	26.51	35,11	35.34	n/a	41.45	n/a	n/a	n/a	n/a	n/a
Travel (inches)	654:1	25.0	22.7	18.2	17.9	14.6	13.4	11.7	9.7	8.8	7.5	6.6	5.6	5.3		4.4	3.8	3.3		7.8					
for Optimum	1415:1		25.0	25.0	24.3	19.8	18.2	15.8	13.2	11.9	10.2	9.0	7.6	7.2		6.0	5.1	4.5		3.8		1		-	1
	2301:1				32.5	26.4	24.4	21.1	17.6	15.9	13,6	12.0	10.2	9,6		.8.0	6.8	6.0		5,1					
Resolution	2880:1				44.1	35.8	33.1	28.7	23.9	21.6	18,5	16.2	13.8	13.0		10.8	92	8.1		6.9			-	-	
	\$970:1				48.0	48.0	44.9	38.9	32.4	29.4	25.0	22.0	18.8	17.6	15.0	14.7	12.5	11.0	9.0	9.4	7.5	56	7.5	7.5	5.6

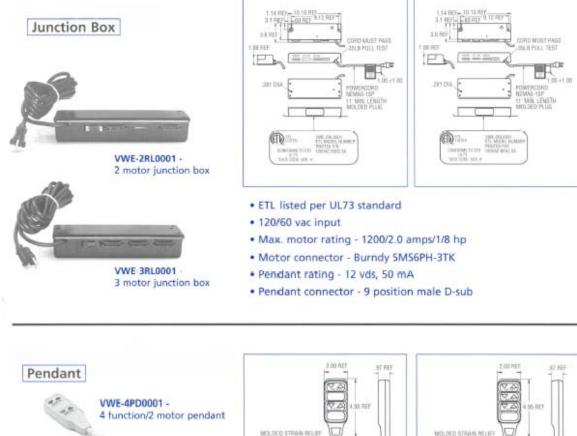


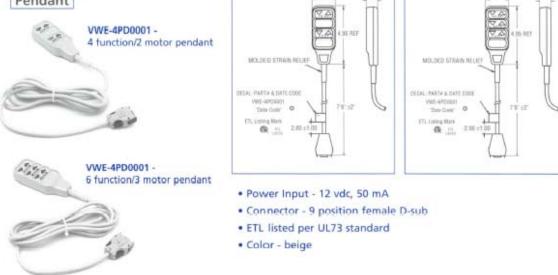




Input Motor	1	Sta	ndard	Gear R	atios			
4 Pole, 60 Hz.	70	84	112	127	153	204		
Full Load Speed (in-min.)	23	19	15	13	11	8		
Full Compression Thrust (lbs.	1068	1175	1282	1800	1800	1800		
Full Tension Thrust (lbs.)	1000	1000	1000	1000	1000	1000		
Starting Thrust (lbs.)	1068	1175	1282	1942	2137	2331		
Options • P.S.C. Motor		• Ove	rload P	rotectio	on		Limit Switches	Potentiometer
Extension Tub		· Acr	ne Nut	Mount			Rear Shaft Extension	





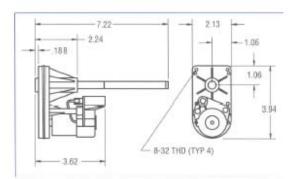


SPECIALS

Specials



VW96 Overhung load 10 lbs., .75" from output boss



Input	Gearmotor	Standard	Gear Ratios
Motor	Characteristic	51	102
2550	F.L. Speed (RPM)	50	25
RPM	F.L. Torque (in-lbs.)	2	4

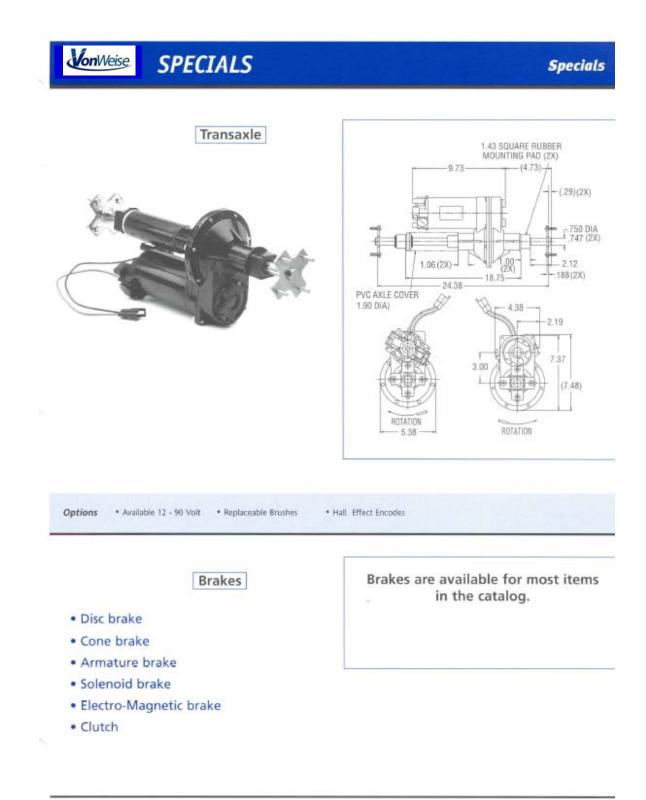
VW44

Overhung load 400 lbs., .75" from output boss

7.36	11.78 MAX	
C 1 09 8 319		1.25 250 DIA
5.96 DIA R44 .405 DIA (TYP 3) (TYP 3)		A



Input	Gearmotor	Standard	Gear Ratios			
Motor	Characteristic	31	49			
4 Pole	F.L. Speed (RPM)	56	36			
60 Hz.	F.L. Torque (in-lbs.)	65	100			
Options	Shaded Pole	• P.S.C. Motor	Split Phase	Capacitor Start	• Brake	Double Output Shaf
204202310	 Conduit Box 	 3-Phase 	 Overload Protection 	1		



VonWeise APPLICATION MATRIX

APPLICATION	AC		DC		Linear Actuators		Specials	
Medical	Part #	Page#	Part #	Page#	Part #	Page#	Part #	Page#
Hospital Beds	US76AC Gear Motor VW76AC Gear Motor	10 10	VW76DE Gear Motor	31	US76AC VW76AC US76DC VW76DC	45 42 44 44		
Home Healthcare Beds	US76AC - Gear Motor VW76AC - Gear Motor	10 10	VW76DC - Gear Motor	31	US76AC VW76AC US76DC	42 44 44		
Nursing Beds	US76AC - Gear Motor VW76AC - Gear Motor	10 10	U576DC - Gein Motor VW76DC - Gear Motor	31 31	VW76DC US76DC VW02AC VW76AC US76AC	·幕章 御皇 帝		
Birthing Beds	US76AC - Gear Motor VW76AC - Gear Motor	10 10	VW76DC < Gear Motor	3	US76AC VW76AC VW02AC US78DC VW76DC	46 42 48 44 44		
Examination Tables					VW02AC	48		
Dental Chairs			US76DC - Gear Motor VW76DC - Gear Motor	31 31	US76AC VW76AC VW02AC US76DC VW76DL	46 42 48 44 44		
Medical Equipment	DTH/L DTP D3Pt D3H D10P/L D10P/L D10PA D10PA D10HA VW100AC VW110AC VW400AC	4 4 5 5 2 2 3 3 14 4 5	D1H/L D1P D3P/L D3P/L D10P/L D10PA D10PA D10PA D10PA US76DC - Gear Motor WW375DC WW90DC	24 24 25 25 22 22 23 23 23 23 31 34 35 35	VWE2AC	48		
Peristaltic Pumps	01HA 01HA 03H 03H 010H 010H 010H 010H 010HA 010HA 040HAC 9W1AAC 9W1AAC	47.5 5 2 2 3 3 8 8 8	D1H/L D1F/L D3F/L D3H D10F/L D10F/L D10FA D10FA U576DC - Gear Motor WW300C	24 24 25 25 22 23 23 31 29 28				
Medical Instrumentation	09 014 VW26AC	6 6 20	09 025 0100 VW06DC VW26DC	28 27 28 38 38				
X-Ray Development	D1H/U D1F D3H D3H D10 VW53AC	4 4 5 5 77 11	D1HAL D1P D3PL D3H D10 VWS3DC VWB8DC	24 24 25 25 7) 32 30				
Handicap Vehicles			VW62DC	37			Transastes	- 51
Lift-Out Chairs					U576AC VW76AC U576DC VW76DC Rack & Pinion	46 42 44 42		

MonWeise APPLICATION MATRIX

APPLICATION	AC		DC		Linear Actuato	rs	Specials	
Food Service	Part #	Page#	Part #	Page#	Part #	Page#	Part #	Page
Icemakers	VWT1AC VWT4AC VW54AC VW53AC VW58AC VW58AC VW58AC VW58AC VW58AC VW58AC VW100AC VW100AC VW100AC	8 8 19 118 18 9 16 14 15	VW930C WV700C US760C - Gear Motor VW300C VW400DC VW400DC VW620C	32 29 31 34 36 37				
Commercial Dishwashers	VW100AC VW110AC VW400AC	14 14 35	VW130DC VW400DC	34 36				
Food Service Equipment	D1H/L D1P D3PL D3H D10PA D10PA D10PA D10PA D10PA D10PA D10PA VW33AC VW54AC	4 4 5 5 2 2 3 5 9 19 11 6	011//L 01F 03FL 03FL 010FA 010FA 010FA 010FA 010FA VW85DC VW8185DC VW975DC	24 24 25 25 22 23 23 23 23 23 23 23 23 23 23 23 23				
Kestaurant Equipment	D1H/L D1P D3P D3P D10P/L D10P/L D10PA D10PA D10PA D10PA D10PA VW05AC VW05IAC VW05IAC VW05IAC	4 4 5 5 2 2 3 7 12 11 13 16	DIH/L DIH DIH DIOPA DIOPA DIOPA DIOPA DIOPA DIOPA VW082DC VW075DC	24 24 25 23 22 22 23 23 37 39 36				
Milk Stirring							VW44AC	50
Vending Machines	WI D1HL D1F	7 4 4						
Popcorn Poppers	01H/G B1P D3PL D3PL D10P/L D10PA D10PA D10PA VW0BAC	4 5 5 2 7 3 3 72	D1H/L D1P D3PL D3PL D10P/L D10PL D10PA D10PA D10PA D10PA	24 24 25 22 22 22 23 23 23				
Rotisseries	DTH/L DTP DTP DTH DT0PA DT0PA DT0PA DT0PA DT0PA DT0PA DT0PA VW08AC VW08AC	4 4 5 5 2 2 3 3 12 10 12	D14/L D17 D37L D37L D107A D107A D107A D107A D107A D107A	24 24 25 25 25 22 22 23 23 23				
Poultry Equipment	VW20AC VW40AC VW47AC	17 17 15						
Office Equipment								
Automated File Systems			VW62DC VW84DC	37 15				
Conference Room Equipment	VW100AC VW110AC VW400AC	14 14 15	LIS76DC – Gear Motor VW138DC VW138DC	31 34				

APPLICATION	AC		DC		Linear Actuators		Specials	
	Part #	Page#	Part #	Page#	Part #	Page#	Part #	Page
Business Machines	09 014 VW11AC VW14AC VW15AC VW55AC VW85AC	6 6 8 20 11 8	D3 D23 VW06DC VW01DC VW01DC VW02DC VW02DC VW07DC VW07DC VW07DC VW02DC VW03DC VW03DC VW035DC VW0375DC	28 27 38 36 27 38 32 29 30 28 39 36				
Postal Machines	011ML D1P D3H D3H D10P/L D10P/L D10PA D10PA D10HA	***	D11//L D1P D3PL D3PL D10P/L D10PL D10PA D10PA D10PA	24 4 2 5 5 2 2 2 5 2 2 2 5 2 2 2 5 2 2 2 2				
Laminating Machines	DTIVL DTP D3P D3P D10P/L D10P/L D10PA D10PA D10PA D10PA VW11AC VW14AC VW10AC	4 4 4 5 5 7 7 7 7 7 7 7 8 40 0	D14/L D1P D3PL D10PL D10PL D10PL D10PA D10PA D10PA VWB30C VWB30C	24 24 25 25 22 22 23 23 23 29 30 28	7.2			
Computer Periferels	09 D14	6	09 VW06DC	28 38				
Fax Machine			VW06DC	38		_	-	
Copy Machine	D9 D14	6	D9 VW06DC	28 38				
Paper Shredders	VW34AC	12	US760C - Gear Motor	31				
Ribbon Drives	09 014	5 5	D9 VW06DC	28 38				
Floor Sweepers	_		US76DC - Gear Motor VW83DL VW88DC	31 28 33	US76DC	44		
Automated Displays	DIH/L DIP DIPL DIM DI0PL DI0PL DI0PA DI0PA DI0PA DI0PA VW11AC VW14AC VW14AC VW14AC VW34AC VW8AC	4 4 5 5 2 2 3 8 8 111 9 12	D1H/L D1P D3PL D3PL D10PL D10PL D10PL D10PA D10PA D10PA D10PA VW15DC VW15DC VW15DC VW76DC	24 24 25 25 22 21 21 21 24 27 26 29				
Recreational Equipment				-			-	_
Exercise Equipment	VW01AC/DC VW80AC	41 20 9	VW03AC/DC VW13DC VW16DC VW16DC VW70DC VW80DC	41 26 27 29 30				
Tread Mills	VW33AC VW88AC	20 12			US76AC VW76AC VW82AC VW82AC US76DC VW76DC Rack & Pinion	46 42 41 42 44 44 44 48		

APPLICATION	AC		DC		Linear Actuators		Specials	
	Part #	Page#	Part #	Page#	Part #	Page#	Part #	Page
Recreational Equipment	US76AC - Gear Motor VW76AC - Gear Motor	16 10	VW07DC VW23DC VW31DC VW33DC VW76DC - Gear Motor	39 40 32 40 11				
Gaming	DTH/L DTP D3PL D3PL D10PA D10PA D10PA D10PA	44552233	D1H/L D1P D3PL D3H D10H D10H D10PA D10HA D10HA D10HA	24 24 25 25 22 22 22 23 23 23 28				
Financial Equipment	L							
Security Cameras			VW06DC	38				
Banking Equipment	01H/L 01P 03PL 03H 010P/L 010PA 010PA 010PA 010PA 010PA	4 4 5 5 2 2 3 3 13	01H/L DIP D3PL D3H D10P/L D10H D10HA D10HA D10HA	24 24 25 25 22 22 23 23 38				
Banking Machines	01H/4 D1F D3F D3H D10FA D10FA D10FA D10FA	***	D1H/L D1P D3PL D3H D10P/L D10P/L D10PA D10PA D10HA	24 24 25 25 22 22 23 23 23				
Industrial Equipment	L	_		-				
Switch Gear	VWSBAC VW77AC VW84AC	19 21 16	VW07DC	39				
Storage Retrieval Equipment	VW77AC	21						
Robetics	W25AC W75TAC	20 13	D25 VW26DC VW51DC VW375DC	27 38 34 36				
Conveyers	DTHUL DTP DSPL DSPL DT0PL DT0PL DT0PL DT0PL DT0PL DT0PL DT0PL DT0PL DT0PL DT0PL DT0PL DT0PL DT0PL DT0PL VWBAC VWBAC VWBAC VWBAC VWBAC VWBAC VWBAC VWBAC VWBAC VWBAC VWBAC VWBAC VWBAC VWBAC VWBAC VWBAC	4 4 5 5 2 2 3 3 4 1 2 9 16 13 11 18 10 9 16 12 11 4 15	DTH/L DTH/L DTP/L DT0P/L DT0P/L DT0PA DT0PA DT0PA DT0PA DT0PA VWB3AC/DC VWB3AC/DC VWB3AC/DC VWB3DC VWB3DC VWB3DC VWB3DC VWB3DC VWB3DC VWB3DC VWB3DC VWB3DC VWB3DC VWB3DC	24 25 22 22 23 22 23 24 1 32 24 13 22 9 11 11 11 11 11 34 36				

APPLICATION	AC		DC		Linear Actuators		Specials	
	Part #	Page#	Part #	Page#	Part #	Page#	Part #	Page
Machine Tools	UTHA DIP O3PL O3PL D10H D10H D10H D10H D10H D10H	本市ででです。	ЫТН/1. D18 D39-L. D39-L. D10-M. D10-M. D10-M. D10-M. VW07DC VW07DC VW21DC VW31DC VW88DC VW88DC	24 25 25 22 23 23 23 35 40 40 33 33				
Woodworking Equipment	VW58AC	18	VW84DC VW88DC VW89DC	35 33 33				
Pump Drive Lubricator	VW53AC	31	VW53DC	32				
Valve Actuators	D1H4. D1P 03PL D1H D9H D10HA D10HA D10HA D10HA D10HA D10HA	de las lastres na de las en de de	D1H/L D1P D3PL D3H D10P/L D10PL D10PA D10PA D10PA D10PA D10PA D10PA D10PA D10PA D10PA D10PA D10PA D10PA UV55DC VW5DC C Gear Motor VW83DC	24 24 25 28 22 23 23 23 23 23 23 23 23 23 23 23 23				
Welding Equipment	U576AC - Gear Motor WW76AC - Gear Motor	10 10	VW07DC VW15DC VW16DC VW23DC VW23DC VW23DC VW3DC - Gear Motor VW8DC VW88DC VW88DC VW85DC	39 26 27 40 32 40 31 30 33 33 39			Tramastes	51
Packaging Equipment	VWSTAC VWSTAC	13 11	VW51DC VW53DC	34 32				
Chemical Equipment	D1H/L D1P D3PL D1P/L D10P/L D10PA D10PA D10PA D10PA U376AC - Gear Motor VW76AC - Gear Motor	4 5 5 2 2 3 10 10	D1H/L D1P D3PL D3PL D10P/L D10P/L D10PA D10PA D10PA D10PA VW31DC VW7EDC - Gear Motor	24 24 25 25 22 22 23 32* 31				
Compactors	VW28AC VW80AC	17 17						
Can Crushers	VW20AC VW40AC	17 17						
Laboratory Mixers/Grinders	VWS3AC	11	VW53DC	32				
Firefighting Equipment	VW47DC	16						
Pellet Stove	DTHVL DTP D3PL D3H D10P/L D10PL D10PA D10PA D10PA D10PA VW11AC VW14AC	44557788	D1H4L D1P D3PL D3PL D1DPA D10HA D10HA D10HA VW70DC - Gear Motor	24 24 25 25 22 23 23 23 23 23 23 31				

APPLICATION	AC		DC		Linear Actuators		Specials	
	Part #	Page#	Part #	Page#	Part #	Page#	Part #	Paget
Pellet Stave (con't)	VW31AC U576AC - Gear Motor VW76AC - Gear Motor VW80AC	11 10 10 9						
Mechanical Pool Covers	VW20AC	17						
Gate Openers	VW53AC	11	VW53DC	32	US76DC - SATELLITE VW76DC - SATELLITE	45 45		
Binding Equipment	D1H/A D1P D3PL D3H D10P/A D10P/A D10P/A D10P/A D10HA	******	01H/L 01F 03FL 03H 010FA 010H 010FA 010HA VW83DC	24 24 25 22 22 23 23 23 23 23 23 23 23 23 23 23				
Printing Equipment			VW06DC VW63DC	38 26				
Agricultural Equipment								
Agricultural Equipment			VW23DC VW33DC VW62DC VW54DC VW375DC	40 40 37 35 36				
Agricultural Ventilation	VW47AC	16	VWBRDC US76AC US76DC VW75AC VW75DC	30 46 44 42 44	US76DC - SATELLITE VW76DC - SATELLITE VW76AC VW76DC US76AC US76AC US76DC	45 45 42 44 46 44		
Wire Feeds Electronic Equipment	VW51AC	13	VW51DC	34				
Ticket Dispensers	D1H4. D1P D3h. D3H. D10P/L D10H D10PA D10HA D10HA D10HA VW11AC VW11AC VW10AC	44557200889	DTH/L DT# D3#L D10#L D10#L D10#A D10HA D10HA D10HA VW02DC VW02DC	24 24 25 25 22 22 23 23 26 29 28				
Positioning Devices	VW26AC	20	D25 VW26DC	27 38				
Satellite Dish Positioning	_		VW23DC VW33DC VW47DC	40 40 35	US76DC - SATELLITE VW76DC - SATELLITE	45 45		
Solar Panels					US76DC - SATELLITE	45		
Signal Flashers					VW76DC - SATELLITE	45	VW96DC	50
Louver Control	VW100AC VW110AC VW400AC	14 14 14	VW130DC VW400DC	34 36	US76DC - SATELLITE VW76DC - SATELLITE	45 45		
Ribbon Drives	09 014	6 6	D9 VW06DC	28 38				

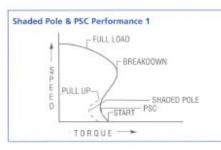
JonWeise GEARMOTOR

Application Information

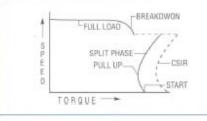
Motor Wiring and Performance

(see following page for wiring diagrams)

- Geartrains simply take input speed and torque and multiply or divide them depending on ratio. Some torque is lost due to friction, but the basic output performance mimics the input performance, just scaled up or down for ratio. Therefore, the motor performance characteristics you see on this page will be the same characteristics that you would see from a gearmotor.
- Shaded pole motors run on AC voltage and only rotate in one direction. Standard models have only two lead wires and can be turned on and off by putting voltage across the two wires. Performance characteristics are similar to PSC. Wiring (1). Performance (1).
- PSC (permanent split capacitor motors) run on AC voltage and are reversible. The capacitor must be in the circuit at all times for the unit to run properly. Standard models have three or five lead wires and should be hooked up as shown in Wiring (2a) or (2b) Performance (1).
- Split phase motors run on AC voltage and are reversible.
 Split phase motors have one winding that is always on line and one that is only used for starting. A centrifugal switch releases when the motor comes up to speed, or a relay releases when the motor's inrush current subsides and removes the start winding from the circuit. If the start winding remains on line for an extended period, the motor will overheat. Wiring (3a) and (3b). Performance (2).
- CSIR (capacitor start-induction run) motors run on AC voltage and are reversible. They are constructed like split phase motors, but they have a capacitor connected between the run winding and the start winding for additional starting and pull-up torque. Wiring (4). Performance (2).
- Series wound motors run on either AC or DC voltage and are reversible. They are brush commutated and have fairly short brush life (less than 500 hours in some cases).
 Standard models have four wires lead and are wired as shown in Wiring (5). Performance (3).
- PMDC (permanent magnet DC) motors run on DC or rectified AC voltage and are reversible. The more closely the input voltage resembles pure DC, the more efficiently the motor runs (less heat rise, longer brush life). These motors have two lead wires and the direction of rotation is determined by the polarity of the input voltage. Wiring (6). Performance (4).



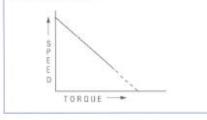
Split Phase & CSIR Performance 2







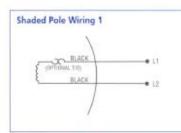


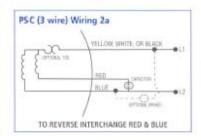


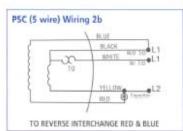
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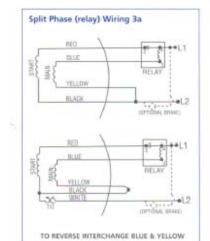
Application Information

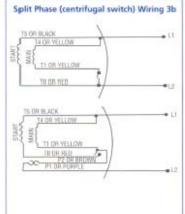
Motor Wiring and Performance (cont.)



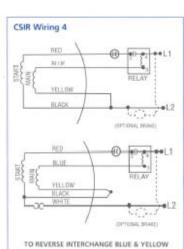


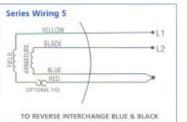






TO REVERSE INTERCHANGE BLUE & YELLOW





PMDC Wiring 6 RED L1 APPAACTURE BLACK L2 TO REVERSE INTERCHANGE BLUE & BLACK

JonWeise GEARMOTOR

Application Information

Torque Ratings vs. Duty Cycle

All gearmotors have duty cycle specified on individual pages.

For those that are rated continuous, the motor, bearings, gears and shafts are designed to run continuously at the listed torque value without overheating. Lower torque amounts can extend life or specifying a particular life can help you. Torque levels higher than specified are sometimes possible on an intermittent basis, at times up to 1.5 times rated load. If, however, these loads will be frequent, premature failure may occur.

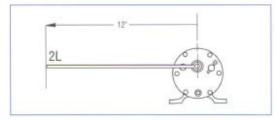
For the right angle models rated as intermittent, the motor and power train can operate for sustained periods (up to several hours) at rated torque values, but when run continuously the motor can deteriorate rapidly. Used typically in cycling operations, where the duty cycle preludes mechanical overheating, these units can provide many years of reliable service.

For intermittent applications, many times a smaller, more cost effective motor or gearbox can be used. Be sure to specify duty cycle completely on application data sheets so that the optimum gearmotor can be selected.

Torque Overhung Load

All gearmotors have torque and overhung load specified on individual pages.

Torque is the tendency of your load to twist the output shaft of a gearmotor. Torque is measured as a force x a distance. For example, a (2) lbs. weight supported (12) inches away from the centerline of the output shaft of a gearmotor would require 2 lbs. X 12 in = 24 lb-ins of torque to move.



Knowing your exact torque requirements helps you optimize your gearmotor selection. You can get just the gearmotor you need, or if you want some safety margin, you'll know how much safety margin you've got. Torque can be measured using a torque wrench or using a wheel of a known diameter and force scale (similar to a postage or fish scale). Torque can also be calculated based on load and its vectoral distance from the gearmotor output shaft.

Your torque load is made up of a force at a distance and that force constitutes an overhung load. If the gearmotor/shaft couples to a shaft that is supported at each end, then you have isolated the overhung load from the gearmotor. In this case, be sure that the coupling arrangement allows for proper alignment between the gearmotor shaft and the supported shaft. If it doesn't, it can preload the bearings in the gearmotor and cause poor performance and premature failure.

If the gearmotor output shaft transmits its torque through a chain, pulley, gear train or rack and pinion, these devices will create an overhung load on the shaft. This load can be figured by the equation below:

Overhung Load =	Torque x K					
	Radius (of pulley, sprocket or pinion					
	Or					
Overhung Load =	Torque x 2 x K					

Diameter (of pulley, sprocket or pinion)

K is a load factor for the type of transmission you use. For chain and sprocket, K = 1.0; for gear and pinion or rack and pinion, K = 1.25; for belt and pulley, K = 1.5. Be sure that your pulley, sprocket or pinion diameter is large enough to stay within the published overhung load capacities.

LINEAR ACTUATOR

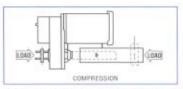
Application Information

Thrust Rating vs. Duty Cycle

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All linear actuators in catalog are intermittent duty rated.

The thrust ratings shown in the catalog are set up around 25% on-time per minute of operation. For infrequent bursts of power, most units can handle up to 1.5 times rated load. Consistent heavy cycling of loads in excess of the rating may cause units to fail. When in the design stage, keep in mind that although linear actuators are designed to provide equal thrust in both directions, the load bearing capacity is higher in compression than in tension.



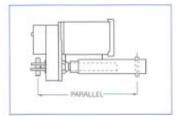
As with the gearmotors before, the performance of the

linear actuators mimic the performance of the motors that drive them. The only difference is that rotary speed and torque are replaced by linear speed and thrust. However, start thrust, breakdown thrust and pull-up thrust all exist just as would be expected.

Mounting and Alignment

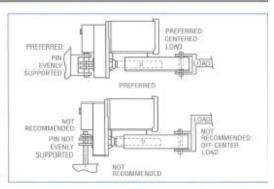
In order to get proper performance and maximum life, linear actuators should be mounted to be free of side loads. The best way to ensure this is to use clevis mounting at each end and to ensure that the clevis mounting pins remain parallel at all times.

Also, be sure that the pins are evenly supported on each



side and the load is centered about the actuator.

The last consideration in mounting is restraining torque. All linear actuators have rotating output shafts and the travel tube or

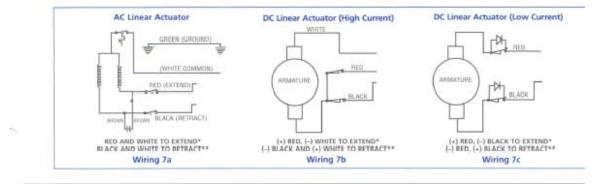


acme nut will simply rotate as well unless it is kept from rotating. The restraining torque requirement can be calculated as:

Restraining Torque (Ib-inches) = .2 x Axial Load (Ibs.)

Wiring

AC linear actuators come standard with PSC motors that have capacitors already mounted and wired in. DC linear actuators have two wiring diagrams depending on the amp draw of the motor. All units are prewired through limit switches that shut the actuator off at either end of travel. (Wiring 7a, 7b, 7c)



Selection Chart

(continued)

JonWeise GEARMOTORS

How to use the Selection Guide of Stocked Gearmotors

Two key requirements in selecting a gearmotor are Speed (RPM) and Torque (in.lb.). These two specifications quickly determine the available models to consider. From this group, the best choice can be made by reviewing mounting configurations, shaft dimensions, voltage, etc.

Example:

A gearmotor is required to rotate a large display case at 6 RPM. The amount of torque needed – measured by a torque wrench – is 200 in.lb. Step 1: Go to the AC section of the Selection Guide, since adjustable speed is not needed.

Step 2: Read down the RPM column to the grouping of 6 RPM models.

Step 3: In the adjacent Torque column find all the 6 RPM models with at least 200 in.lb. torque.

Step 4: With this group of gearmotors, review their voltage, mounting configuration, shaft characteristics, etc. for the gearmotor that best suits the application.

AC Gearmotors

F/L			Motor	Grainger	Gearbox Reference			
RPM	in. Lbs.	HP	60Hz 50HZ		Type	SKU	and Page	
1	50	1/400	115		Shaded Pole	22804	VW11 Pg 8	
1	100	1/100	115	115	Shaded Pole	4LL05	VW11 Pg. 8	
1	100	1/100	115		Shaded Pole	21,001	VW707+	
1	3000	1/15	115/230	115/230	P.S.C.	11.570	VW47 Pg. 16	
13	250	1/50	115/230	115/230	P.S.C.	11.554	VW33 Pg; 20	
2	25	1/400	115	-	Shaded Pole	22805	VW11 Pg. 8	
2	113	1/10	115		Shaded Pole	11,490*	VW08.Pg, 12	
2	113	1/20	115	and the second	Shaded Pole	3M125	VW08 Pg, 12	
2	1900	1/12	115/230	115/230	P.S.C.	11.571	VW47 Pg. 16	
3	200	1/20	115/230	115/230	P.S.C.	11,555	VW33 Pg. 20	
3.5	50	1/250	115/230	115/230	P.S.C.	1L548	VW14 Pg. 8	
4	130	1/90	115		Shaded Pole	62906	VW707*	
5.6	200	1/14	115/230	115/230	P.S.C.	11,556	VW33 Pg. 20	
6	22.5	1/330	115		Shaded Pole	22806	VW11 Pg. 8	
6	40	1/100	115	115	Shaded Pole	411.06	VW11 Pg. 8	
б	113	1/10	115		Shaded Pole	11489*	VW08 Pg. 12	
6	113	1/20	115		Shaded Pole	3M126	VW08 Pg. 12	
÷	113	1/10	115		Shaded Pole	3M135	VW08 Pg. 12	
6	250	2/85	115		Shaded Pole	62907	VW707*	
6	500	1/15	115/230	115/230	P.S.C.	2H417	VW102 Pg. 14	
б	500	1/15	115/230	115/230	P.S.C.	2H431	VW104 Pg, 14	
6	600	1/12	115/230	115/230	P.S.C.	11.572	VW84 Pg. 16	
6	600	1/4	115		Split Phase	5K933	VW20 Pg, 17	
7	50	1/125	115/230	115/230	P.S.C.	11549	VW14 Pg. 8	
8	500	1/12	115/230	115/230	P.S.C.	2H433	VW104 Pg. 14	
9	200	1/16	115/230	115/230	P.S.C.	11557	VW33 Pg. 20	
10	500	1/10	115/230	115/230	P.S.C.	2H419	VW102 Pg, 14	
10	500	1/10	115/230	115/230	P.S.C.	2H435	VW104 Pg. 14	
12	25.7	1/135	115	1.000	Shaded Pole	22807	VW11 Pg. 8	
12	40	1/85	115	115	Shaded Pole	41107	VW11 Pg. 8	
12	113	1/10	115		Shaded Pole	1L488*	VW08 Fg. 12	
12	113	1/20	115		Shaded Pole	3M127	VW08 Pg, 12	
12	113	1/10	115		Shaded Pole	3M136	VW08 Pg. 12	
12	400	1/14	115/230	115/230	P.S.C.	11573	VW84 Pg. 16	
12	500	1/9	115/230	115/230	P.5.C.	2H437	VW104 Pg. 14	
12	600	174	115		Split Phase	5K934	VW20 Pg. 17	
15	340	1/10	115/230	115/230	P.S.C.	2H421	VW102 Pg. 14	
15	500	1/8	115/230	115/230	P.S.C.	2H439	VW114 Pg. 14	
18	550	1/4	115	and the second	Split Phase	58935	VW20 Pg, 17	
19	250	1/12	115/230	115/230	P.S.C.	11.574	VW84 Pg, 16	
20	15.2	1/120	115		Shaded Pole	22808	VW11 Pg. 8	
20	500	1/6	115/230	115/230	P.S.C.	2H441	VW114 Pg. 14	

F/L	F/L Torque	Input	Vo	lts	Motor	Grainger	Gearbox Reference
RPM		HP	60Hz	50HZ	Type	SKU	and Page
21	170	1/12	115/230	115/230	P.S.C.	11,558	VW33 Pg. 20
25	45	1/85	115		Shaded Pole	62908	VW707*
28	175	1/13	115/230	1157230	P.S.C.	11,575	VW84 Pg. 16
29	150	1/13	115/230	115/230	P.S.C.	11.586	VW89 Pg. 13
29	185	1/10	115/230	115/230	P.S.C.	2H423	VW102 Pg. 14
30	11.6	1/120	115		Shaded Pole	22809	WV11 Pg. 8
30	42	1/20	115		Shaded Pole	3M128	V1W08 Pg. 12.
30	113	1/10	115		Shaded Pole	3M137	VW08 Pg. 12
30	113	1/10	115		Shaded Pole	3M158*	VW08 Pg. 12
30	400	1/4	115		Split Phase	5K939	VW20 Pg. 17
30	800	1/2	115		Split Phase	22794	V/W40 Pg. 17
31	360	1/5	115/230	110/220	P.S.C.	2H444	VW114 Pg. 14
35	50	1/25	115/230	115/230	P.S.C.	11.550	VW14 Pg. 8
39	89	1/12	115/230	115/230	P.S.C.	1L559	VW33 Pg, 20
40	330	1/4	115		Split Phase	58941	VW20 Pg. 17
42	125	1/10	115/230	115/230	PSC.	2H425	VW102 Pg. 14
43.	265	1/5	115/230	110/220	P.S.C.	2H446	VW114 Pg. 14
48	100	1/12	115/230	115/230	P.S.C.	1L576	VW84 Pg, 16
50	25	1/45	115	1.1.1	Shaded Pole	62909	VW707*
57	85	1/13	115/230	115/230	P.S.C.	11587	VW89 Pg. 13
60.	-4.7	1/120	115		Shaded Pole	22810	VW11 Pg. 8
60	59	1/10	115		Shaded Pole	1L487*	VW08 Pg, 12
60	59	1/10	115		Shaded Pole	3M138	VW08 Pg, 12
60.	93	1/10	115/230	115/230	P.S.C.	2H427	VW102 Pg. 14
60	200	1/4	115		Split Phase	5K940	VW20 Pg, 17
60	400	1/2	115		Split Phase	2Z795	VW40 Pg. 17
63	180	1/5	115/230	110/220	P.S.C.	2H449	VW114 Pg. 14
67	30	1/25	115/230	115/230	P.S.C.	11.551	VW14 Pg. 8
86	55	1/12	115/230	115/230	P.S.C	11588	VW89 Pg. 13
.90	150	1/4	115		Split Phase	6K993	VW20 Pg. 17
90	287	1/2	115		Split Phase	22796	VW40 Pg. 17
91	130	1/5	115/230	110/220	P.S.C.	2H451	VW114 Pg. 14
107	20	1/20	115/230	110/220	P.S.C	11,552	VW14 Pg. 8
120	2.7	1/120	115		Shaded Pole	22811	VW11 Pg 8
120	100	1/4	115		Split Phase	5K942	VW20 Pg, 17
155	30	1/12	115/230	115/230	P.S.C	11.589	VW89 Pg. 13
155	36	1/10	115/230	115/230	P.S.C.	29429	VW102 Pg. 14
156	77	1/5	115/230	110/220	P.S.C.	251453	VW114.Pg 14
185	12	1/20	115/230	115/230	F.S.C.	11,553	VW14 Pg. 8
200	1.18	1/120	115		Shaded Pole	22812	VW11.Pg. 8
200	4	1/45	115	115	Shaded Pole	4LL08	VW11 Pg. 8
360	3	1/45	115	115	Shaded Pole	4LL09	VWT1 Pg. 8

JonWeise GEARMOTORS

Selection Chart

DC Gearmotors

F/L RPM	F/L Torque in Lbs.	Input HP	Volts DC	Grainger SKU	Gearbox Reference and Page
0.45	50	1/1200	12	42832	D10HA Pg. 23
15	75	1/1000	12	47833	D10HA PE 23
3.4	30	1/400	12	42834	D10HA Pg. 23
4.5	38	1/200	12	42835	D10HA Pg. 23
6	50	1/30	12	11,480	VW83 Pg, 29
6	500	1/15	12	11474	VW84 Pg. 35
9	35	1/120	12	42836	D10HA Pg. 23
9	50	1/30	12	11479	VW83 Pg, 29
12	40	1/90	12	42837	D10H Pg. 23
12	250	1/15	12	11,473	VW84 Pg. 35
17	16	1/160	12	42838	D10H Pg. 22
20	150	1/15	12	1L472	VW84 Pg. 35
21	50	1/30	12	11.478	VW83 Pg 29
25	15	1/160	12	42839	D10H Pg. 22
32	40	1/30	12	11477	VW83 Pg. 29
40	75	1/8	12	11.471	VW84 Pg. 35
50	10	1/90	12	42840	D10H Pg. 22
50	26	1/30	12	1L476	VW83 Pg. 29
60	75	1/8	12	1L470	VW84 Pg. 35
90	50	1/8	12	11.469	VW84 Pg 35
102	13	1/30	12	1L475	VW83 Pg. 29
3.2	250	1/15	<u>90</u>	42723	VW33 Fg. 40
6	177	1/12	90	42724	VW33 Pg. 40
6	500	1/15	90	2H455	VW132 Pg. 34
6	500	1/15	90	2H467	VW134 PL 34
6.5	500	1/15	90	42530	VW84 Pg. 35
7	50	1/100	90	42534	VW83 Pg. 29
10	228	1/12	90	42725	VW33 Pg. 40
11	50	1/75	90	42535	VW83 Pg. 29
12	350	1/12	90	211457	VW132 Pg. 3
12	350	1/12	90	2H469	VW134 PE 34
13	250	1/15	90	42531	VW84 Pg. 35
21	50	1/30	90	42536	VW83 Pg. 29
21	150	1/15	90	42532	VW84 Pg. 35
23.5	102	1/12	90	42726	VW33 Pg. 40
29	156	1/12	- 90	2H459	VW132 Pg. 3
29	156	1/12	. 90	2H471	VW134 Pg. 34
32	43	1/30	90	4Z537	VW83 Pg. 29
42	75	1/15	90	4Z533	VW84 Pg, 35
43	105	1/12	90	2H461	VW132 Pg. 3
-43	105	1/12	90	2H473	VW134 Pg 3
45	56	1/12	90	42727	VW33 Pg. 40
50	26	1/30	90	4Z538	VW83 Pg. 25
61	78	1/12	90	2H463	VW132 Pg. 3
61	78	1/12	90	2H475	VW134 Pg 3
89	34	1/15	90	42728	VW33 Pg. 40
102	13	1/30	90	4Z539	VW83 Pg. 25
157	30	1/12	90	2H465	VW132 Pg, 3
157	30	1/12	90	2H477	VW134 Pz 3

* Not in cotalog

Universal AC/DC Series

F/L	F/L /L Torque Inp	Input	Vo	its		Motor	Grainger	Gearbox Reference
RPM	in. Lbs.	HP	60Hz	50HZ	50HZ	Type	SKU	and Page
2.8	250	1/15	115	115	115	Left Hand	22797	VW03 Pg. 41
4.0	250	1/15	115	115	115	Right Hand	11.486	VW03 Pg. 41
6.7	162	1/15	115	115	115	Left Hand	22798	VW03 Pg. 41
6.7	162	1/15	115	115	115	Right Hand	11.485	VW03 Pg. 41
12.8	110	1/15	115	115	115	Left Hand	22799	VW03 Pg. 41
12,8	110	1/15	115	115	115	Right Hand	1L484	VW03 Pg. 41
21	100	1/15	115	115	115	Left Hand	22800	VW03 Pg. 41
21	100	1/15	115	115	115	Double	2Z801	VW03 Pg. 41
21	100	1/15	115	115	115	Right Hand	1L483	VW03 Pg. 41
50	45	1/15	115	115	115	Left Hand	22802	VW03 Pg. 41
50	45	1/15	115	115	115	Right Hand	11.482	V/W03 Pg. 41
100	27	1/15	115	115	115	Left Hand	ZZ003	VW03 Pg. 41
100	27	1/15	115	115	115	Right Hand	11,481	VW03 Pg. 41

NOTE: DC and AC/DC Gearmotors are listed with FA RPM at maximum voltage shown. They are typically operated with a speed control allowing speed adjustment from 0 to the FA RPM listed. Please refer to the index for motor controls. For Linear Actuators, see page 42.

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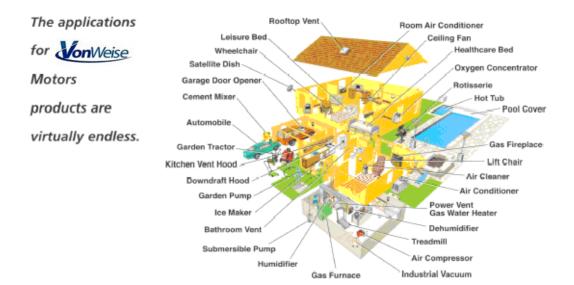
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SOLUTIONS. SELECTION. SUPPORT.

VonWeise ... Powering Industry Through Innovation.

Today, while is committed to an entirely new way of doing business through a powerful combination of Solutions, Selection and Support.

Engineering expertise and innovative thinking drive to improve products and services for our customers, assuring the highest quality products at the most competitive cost.



Solutions

provides customized solutions beyond bare shaft motors. We work with you to maximize your creativity providing innovative and cost-effective solutions for your application.

Selection

We deliver solutions from our complete selection of Maximum AC and DC motors, blowers, gearmotors, linear actuators and controls. Our ability to package motors with other components helps you eliminate additional outsourcing and reduces assembly time.

Support

At the we take a very advanced approach to design and manufacturing, but our commitment to customer service is a time-honored one that will continue. Our hands-on support team includes comprehensive design assistance and rapid prototyping. In addition, facilities are equipped with a certified UL testing laboratory designed to perform tests including acoustic and vibration analysis.