



STOCK SUB-FHP DC GEARMOTORS PARALLEL SHAFT GEARMOTORS

1,1 through 11,3 Nm Output Torque

Design Specifications:

Totally enclosed, permanent magnet DC gearmotors, performance matched for continuous duty service over a 60:1 speed range. All have constant torque throughout the range when powered by a full-wave unfiltered thyristor-type adjustable speed control having a typical form factor of 1,3 to 1,4.

Precision machined in-line steel gears, with a first stage steel helical gear followed by spur-type gears. Lubrication is permanent semi-fluid grease, reducing possibility of leakage. Output shafts have needle bearings for high load capacities. Shafts are hardened steel.



Application Notes:

These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail.

The motor's stall torque could exceed recommended full load torques. If this service is anticipated, a current limiting device should be used.

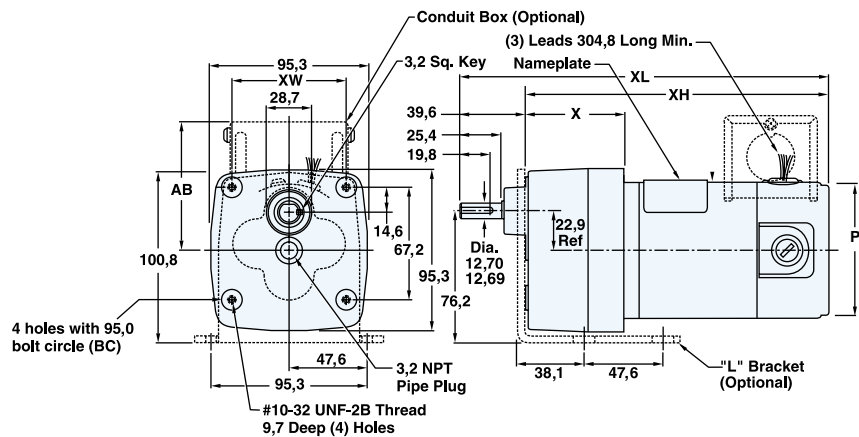
Overhung load capacities shown are at center of output shaft.

Model PZ gearmotors have the same mounting dimensions as Bodine model D and Z, Baldor/Boehm, Bison 100 gearmotors, and a number of Dayton gearmotors.

PZ SERIES DC GEARMOTORS PARALLEL SHAFT • TENV • 1,0 S.F. • THYRISTOR RATED

Speed Range RPM min*	F.L. Torque Nm	Input Watts	HP	Catalog Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over- hung Load (Kg.)	DIMENSIONS			
										P	X mm	XL	XH
4-0,06	11,3	19	1/40	M1115002	PZ5-24A	450	90	0,46	70,3	60	83	212	158
				M1115046	PZ5-31A					79	83	236	197
10-0,17	11,3	37	1/20	M1115001	PZ4-30E	180	90	0,54	70,3	76	83	236	182
				M1125047	PZ4-31A					79	83	236	182
20-0,33	11,3	37	1/20	M1115000	PZ4-30E	90	90	0,54	70,3	76	83	236	182
				M1125048	PZ4-31A					79	83	236	182
30-0,50	11,3	45	1/17	M1125002	PZ3-31B	60	90	0,80	70,3	76	68	222	168
				M1125037	PZ3-31A					79	83	236	182
60-1,0	6,3	45	1/17	M1125003	PZ3-31B	30	90	0,80	77,6	76	68	222	168
				M1125036	PZ3-31A					79	83	236	182
100-1,7	4,1	45	1/17	M1125004	PZ3-31B	18	90	0,80	77,6	76	68	222	168
				M1125035	PZ3-31A					79	83	236	182
150-2,5	2,7	45	1/17	M1125005	PZ2-31B	12	90	0,80	81,7	76	61	215	161
				M1125034	PZ2-31A					79	83	236	182
300-5,0	1,1	45	1/17	M1125006	PZ2-31B	6	90	0,80	81,7	76	61	215	161
				M1125033	PZ2-31A					79	83	236	182

PZ SERIES - DC



BODINE/BISON/DAYTON DIRECT INTERCHANGE

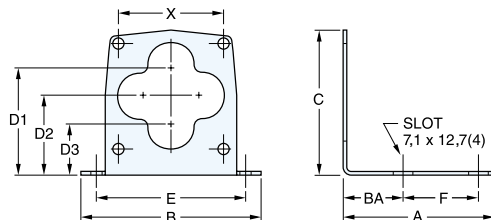
See Cross Reference page 31

See page 11 for optional conduit box



SUB-FHP GEARMOTOR "L" MOUNTING BRACKET

Optional "L" bracket used to mount parallel shaft type PZ gearmotor. Of steel construction, bracket is painted and includes screws for mounting to the motor, but not the application.



Catalog Number	For Gearmotors	DIMENSIONS (mm)									
		A	B	C	D ¹	D ²	D ³	X	BA	F	E
M1760003*	PZ	95	114	100	76	57	38	67	38	48	95

* Maximum radial load no greater than 22,9 Kgs.

3,1 through 39,9 Nm
Output Torque

Design Specifications:

Totally enclosed, permanent magnet DC gearmotors, performance matched for continuous duty service over a 60:1 speed range. All have constant torque throughout the range when powered by a full-wave unfiltered thyristor-type adjustable speed control having a typical form factor of 1,3 to 1,4.



Precision machined in-line steel gears, with a first stage steel helical gear followed by spur-type gears. Lubrication is permanent semi-fluid grease, reducing possibility of leakage. Output shafts have needle bearings for high load capacities. Shafts are hardened steel.

Application Notes:

These gearmotors are designed for mounting at any angle, but shaft up with motor below should be avoided to prevent leakage of lubricant into the motor should the motor's shaft seal fail.

Overhung load capacities shown are at center of output shaft.

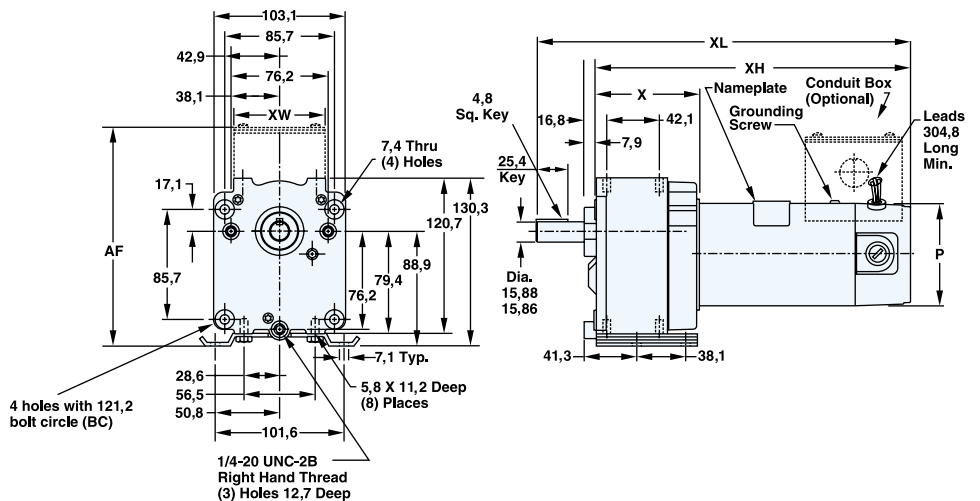
The motor's stall torque exceeds recommended full load torques. A current limiting device such as an thyristor control should be used to prevent damage.

Model 300 gearmotors have the same mounting dimensions as Bison's 300 and many Dayton gearmotors.

P300 SERIES DC GEARMOTORS
PARALLEL SHAFT • TENV • 1,0 S.F. • THYRISTOR RATED

Speed Range RPM min ¹	F.L. Torque Nm	Input		Catalog Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over- hung Load (Kg.)	DIMENSIONS			
		Watts	HP							P	X	XL	XH
5-0,08	39,9	37	1/20	M1115024	P303-30E	336	90	0,54	256,3	76	90	256	210
9-0,15	30,3	37	1/20	M1115025	P303-30E	216	90	0,54	215,0	76	90	256	210
18-0,30	17,0	37	1/20	M1115026	P303-30E	103	90	0,54	174,6	76	90	256	210
20-0,33	15,8	37	1/20	M1125092	P303-31E	90	180	0,66	144,2	76	90	256	210
24-0,40	31,6	90	1/8	M1125069	P303-31E	76	90	1,30	160,1	79	82	293	247
31-0,52	24,9	90	1/8	M1125070 M1125038	P303-31E	58	90 180	1,30 0,66	148,3	79	82	293	247
34-0,57	9,3	37	1/20	M1115027	P303-30E	52	90	0,54	144,2	76	90	256	210
53	14,7	90	1/8	M1125071 M1125039	P302-31E	33	90 180	1,30 0,66	125,7	79	82	293	247 252
53	6,2	37	1/20	M1115028	P302-30E	33	90	0,54	127,5	76	90	256	210
61-1,02	12,8 5,1	90 37	1/8 1/20	M1125072 M1125093	P302-31E	29	90 180	1,30 0,31	121,1	79	82	293	247
94-1,60	8,7	90	1/8	M1125073 M1125040	P302-31E	19	90 180	1,30 0,66	107,1	79	82	293	247
109-1,82	3,1	37	1/20	M1115029 M1125094	P302-30E	16	90 180	0,54 0,31	101,6	76	90	256	210
170-2,80	4,9	90	1/8	M1125074 M1125041	P302-31E	11 10	90 180	1,30 0,66	89,4 88,9	79	82	293	247

P300 SERIES



BISON/DAYTON
DIRECT INTERCHANGE

See Cross Reference page 31

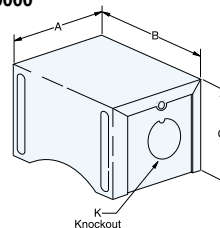
GEARMOTOR CONDUIT BOX

Optional steel conduit or junction box is available for 24, 30 and 34 frame gearmotors. The box is painted and mounts in holes using screws provided with all stock motors and gearmotors.

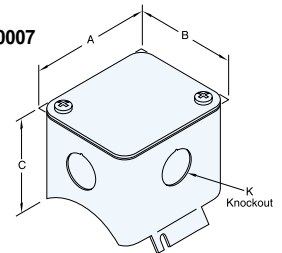


Catalog Number	For Motor Frames	DIMENSIONS (mm)			
		A	B	C	K
M1760000	24	53	62	57	22
M1760007	30/34	80	67	58	22

M1760000



M1760007





STOCK SUB-FHP DC GEARMOTORS PARALLEL SHAFT GEARMOTORS

2,8 through 41,9 Nm Output Torque

Design Specifications:

Totally enclosed, permanent magnet DC gearmotors, performance matched for continuous duty service over a 60:1 speed range. All have constant torque throughout the range when powered by a full-wave unfiltered thyristor-type adjustable speed control having a typical form factor of 1,3 to 1,4.

Gearbox has rugged aluminum die cast housing, for maximum gear and bearing support. Precision machined gearing, hardened for maximum load capability. All gearing designed and rated to AGMA Class 9 standards and to withstand momentary shock overload of 200%. Oversized output bearings for greater overhung load capacity and longer life. High-carbon alloy output shaft provides maximum strength and rigidity. All needle bearing journals are precision-ground after heat treating, to provide maximum finish and fit. Heavy-duty industrial oil seals help keep lubricant in and dirt out. Gears and bearings are splash lubricated with permanent, heavy-duty gear oil.

Application Notes:

These gearmotors are designed for mounting at any angle, but shaft up with motor below should be avoided to prevent leakage of lubricant into the motor should the motor's shaft seal fail.

Overhung load capacities shown are at center of output shaft.

The motor's stall torque exceeds recommended full load torques. A current limiting device such as an thyristor control should be used to prevent damage. Model PE350 gearmotors have the same mounting dimensions as Bodine's "E" box and many Baldor gearmotors.



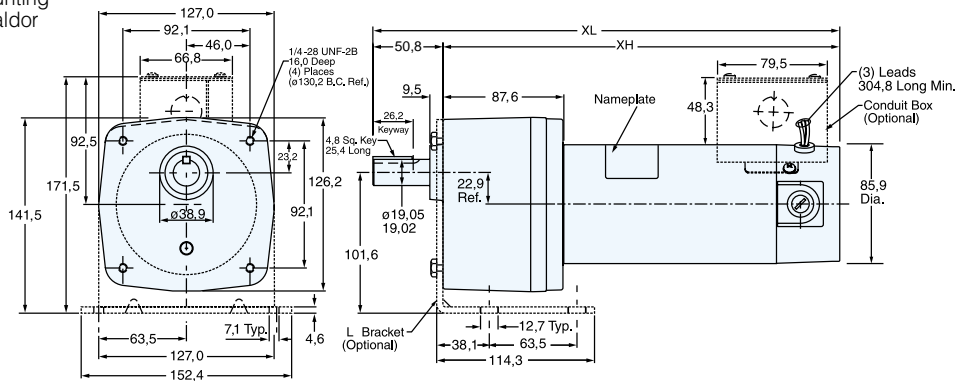
See Cross Reference page 31



PE350 SERIES DC GEARMOTORS PARALLEL SHAFT • TENV • 1,0 S.F. • THYRISTOR RATED

Speed Range RPM min ⁻¹	F.L. Torque Nm	Input Watts	HP	Catalog Number	Gearmotor Type & Frame	Ratio to 1	Arm Volts DC	F.L. Amps DC	Overhung Load (Kg.)	DIMENSIONS XL XH mm	
7-0,12	37,3	90	1/8	M1135106 M1135139	P353-34	336	90 180	0,70 0,35	256,3	287	236
14-0,23	38,5	90	1/8	M1135107 M1135140	P353-34	180	90 180	1,00 0,50	154,7	287	236
21-0,35	41,9	180	1/4	M1135117 M1135141	P353-34	124	90 180	1,10 0,55	168,3	338	287
27-0,45	34,5	180	1/4	M1135115 M1135142	P353-34	91	90 180	1,50 0,75	169,7	338	287
42-0,7	31,6	180	1/4	M1135108 M1135143	P353-34	58	90 180	2,30 1,20	148,3	338	287
50-0,83	28,3	180	1/4	M1135109 M1135144	P353-34	50	90 180	2,30 1,20	137,4	338	287
62-1,0	24,9	180	1/4	M1135110 M1135145	P353-34	43	90 180	2,30 1,20	137,4	338	287
83-1,38	17,5	180	1/4	M1135114 M1135146	P352-34	29	90 180	2,30 1,20	121,1	338	287
125-2,1	11,3	180	1/4	M1135111 M1135147	P352-34	23	90 180	2,00 1,00	116,1	338	287
165-2,75	7,9	180	1/4	M1135112 M1135148	P352-34	15	90 180	2,00 1,00	105,2	338	287
250-4,0	5,1	180	1/4	M1135116 M1135149	P352-34	10	90 180	2,00 1,00	91,2	338	287
500-8,0	2,8	180	1/4	M1135113 M1135150	P352-34	5	90 180	2,00 1,00	68,0	338	287

PE350 SERIES - DC

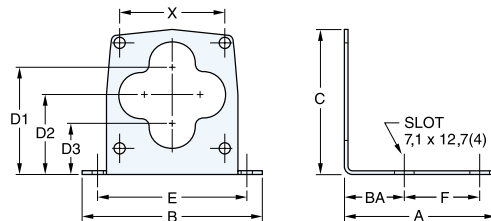


See page 11 for optional conduit box



SUB-FHP GEARMOTOR "L" MOUNTING BRACKET

Optional "L" bracket can be used to mount PE350 gearmotors. Of steel construction, bracket is painted and includes screws for mounting to the motor, but not the application.



Catalog Number	For Gearmotors	DIMENSIONS (mm)									
		A	B	C	D ¹	D ²	D ³	X	BA	F	E
M1760011*	PE350	114	152	140	102	79	56	92	38	64	127

* Maximum radial load no greater than 90,7 Kgs.

**11,9 through 125,7 Nm
Output Torque**

Design Specifications:

Thyristor rated, permanent magnet DC gearmotors. Totally enclosed for continuous duty, general purpose applications. All have constant torque throughout the 60:1 speed range, when powered by a full-wave, unfiltered thyristor-type adjustable speed control having a typical form factor of 1,3 to 1,4. Gearbox has rugged aluminum die cast housing, for maximum gear and bearing support. Precision machined gearing, hardened for maximum load capability. All gearing designed and rated to AGMA Class 9 standards and to withstand momentary shock overload of 200%. Oversized output bearings for greater overhung load capacity and longer life. High-carbon alloy output shaft provides maximum strength and rigidity. All needle bearing journals are precision-ground after heat treating, to provide maximum finish and fit. Heavy-duty industrial oil seals help keep lubricant in and dirt out. Gears and bearings are splash lubricated with permanent, heavy-duty gear oil. Conduit box is standard.



Application Notes:

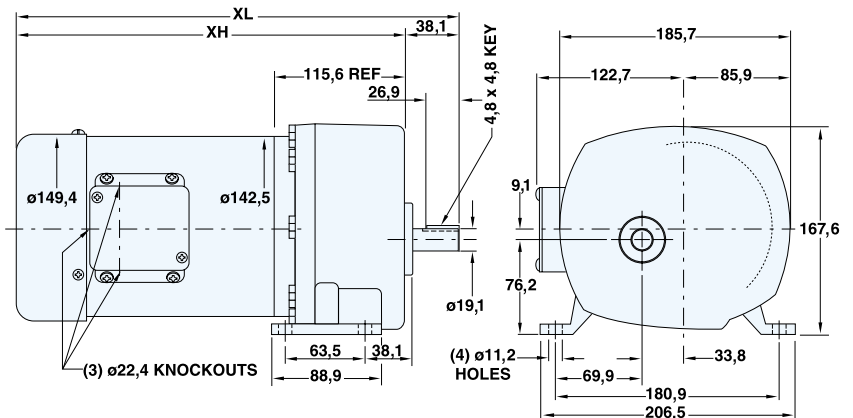
These gearmotors are designed for mounting at any angle, but shaft-up with motor below gearhead is not recommended. Overhung load capacities shown are at center of output shaft. P1100 DC gearmotors have the same mounting dimensions as Bison 483 gearmotors and many Dayton gearmotors. The motor's stall torque exceeds recommended full load torques. A current limiting device such as an thyristor control should be used to prevent damage.

P1100 SERIES DC GEARMOTORS
FRACTIONAL HP • PARALLEL SHAFT • TOTALLY ENCLOSED
1,0 SERVICE FACTOR • THYRISTOR RATED

Speed Range RPM min ⁻¹	F.L. Torque Nm	Input kW	HP	Catalog Number	Gearmotor Type & Frame	Ratio to 1	Arm Volts DC	F.L. Amps DC	Overhung Load (Kg.)	DIMENSIONS XL XH mm	
8-0,13	122,8	0,18	¼	108700	P1103-48	212	90	2,7	317,5	366	328
12-0,2	116,4	0,18	¼	108701	P1103-48	143	90	2,7	317,5	366	328
18-0,3	84,8	0,18	¼	108702	P1103-48	95	90	2,7	317,5	366	328
42-0,7	39,9	0,18	¼	108703	P1102-48	42	90	2,7	294,8	366	328
60-1,0	26,9	0,18	¼	108704	P1102-48	29	90	2,7	283,5	366	328
92-1,53	18,1	0,18	¼	108705	P1102-48	19	90	2,7	260,8	366	328
135-2,25	11,9	0,18	¼	108706	P1102-48	13	90	2,7	238,1	366	328
18-0,3	125,7	0,37	½	108707**	P1103-48	95	90	5,0	317,5	425	387
33-0,55	99,7	0,37	½	108708**	P1103-48	53	90	5,0	294,8	425	387
42-0,7	79,7	0,37	½	108709**	P1102-48	42	90	5,0	294,8	425	387
60-1,0	53,8	0,37	½	108710**	P1102-48	29	90	5,0	283,5	425	387
92-1,53	36,2	0,37	½	108711**	P1102-48	19	90	5,0	260,8	425	387
135-2,25	23,7	0,37	½	108712**	P1102-48	13	90	5,0	238,1	425	387

**Totally enclosed fan cooled, others are totally enclosed non-ventilated.

P1100 SERIES - DC



**BISON/DAYTON
DIRECT INTERCHANGE**

See Cross Reference page 31



STOCK SUB-FHP DC GEARMOTORS RIGHT-ANGLE SHAFT GEARMOTORS

0,6 through 15,3 Nm Output Torque

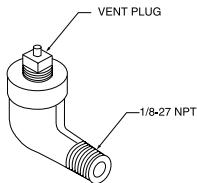
Design Specifications:

Totally enclosed right-angle gearmotors, performance matched for continuous service over a 60:1 speed range. All have constant torque throughout the range when powered by a full-wave, unfiltered thyristor-type adjustable speed control having a typical form factor of 1,3 to 1,4. Also available as factory options are motors for low voltage input and with double output shafts. This worm-type right-angle gearing features hardened, steel worm with bronze worm wheel for long life and quiet operation. Precision machined aluminum housings are used. Gearbox has all ball bearings. The housing is sealed and lubrication is permanent with an oil bath. The output shaft is field interchangeable from left hand style to right hand style by reassembly.



Application Notes:

For optimum seal life, these right-angle gearmotors have a lubrication breather positioned for horizontal mounting. For other mountings, the breather-plug must be reoriented by using a NPT taper pipe elbow (see drawing). However, the motor portion of the gearmotor should never be mounted below the gearhead.

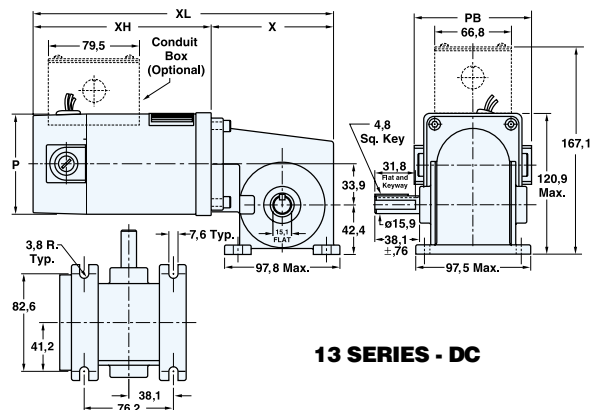
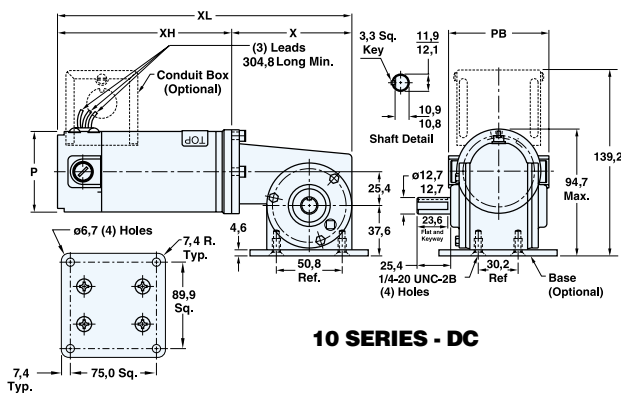


RIGHT-ANGLE DC GEARMOTORS TENV • 1,0 SERVICE FACTOR • THYRISTOR RATED

Speed Range RPM min ⁻¹	F.L. Torque Nm	Input Watts	HP	Catalog Number	Gearmotor Type & Frame	Ratio to 1	Arm Volts DC	Full Load Amps. DC	Over- hung Load (Kg.)	DIMENSIONS				
										P	PB	X mm	XL	XH
42-0,7	3,4	45	1/17	M1115018	10F60-24D	60	90	0,68	83,9	60	76	91	223	132
62-1,0	4,0	45	1/17	M1115019	10F40-24D	40	90	0,68	83,9	60	76	91	223	132
125-2,1	2,3	45	1/17	M1115020	10F20-24D	20	90	0,68	83,9	60	76	91	223	132
250-4,0	1,2	45	1/17	M1115021	10F10-24D	10	90	0,68	83,9	60	76	91	223	132
500-8,0	0,7	45	1/17	M1115022	10F05-24D	5	90	0,68	106,6	60	76	91	223	132
42-0,7	3,4	60	1/12	M1135053	13F60-34A	60	180	0,53	106,6	86	102	114	245	131
62-1,0	4,0	60	1/12	M1135054	13F40-34A	40	180	0,53	106,6	86	102	114	245	131
125-2,1	2,0	60	1/12	M1135055	13F20-34A	20	180	0,53	106,6	86	102	114	245	131
250-4,0	1,1	60	1/12	M1135056	13F10-34A	10	180	0,53	106,6	86	102	114	245	131
500-8,0	0,6	60	1/12	M1135057	13F05-34A	5	180	0,53	106,6	86	102	114	245	131
42-0,7	9,0	90	1/8	M1135069	13F60-34C	60	90	1,40	106,6	86	102	114	270	156
62-1,0	7,9	90	1/8	M1135038 M1135058	13F40-34C	40	90 180	1,40 0,70	106,6	86	102	114	270	156
125-2,1	5,1	90	1/8	M1135039 M1135059	13F20-34C	20	90 180	1,40 0,70	106,6	86	102	114	270	156
250-4,0	2,8	90	1/8	M1135040 M1135060	13F10-34C	10	90 180	1,40 0,70	106,6	86	102	114	270	156
500-8,0	1,5	90	1/8	M1135041 M1135061	13F05-34C	5	90 180	1,40 0,70	106,6	86	102	114	270	156
62-1,0	15,3	180	1/4	M1135042 M1135062	13F40-34G	40	90 180	2,30 1,30	106,6	86	102	114	321	207
83-1,38	14,1	180	1/4	M1135043 M1135063	13F30-34G	30	90 180	2,30 1,30	106,6	86	102	114	321	207
125-2,1	10,2	180	1/4	M1135044 M1135064	13F20-34G	20	90 180	2,30 1,30	106,6	86	102	114	321	207
250-4,0	5,7	180	1/4	M1135045 M1135065	13F10-34G	10	90 180	2,30 1,30	106,6	86	102	114	321	207
500-8,0	3,4	180	1/4	M1135046 M1135066	13F05-34G	5	90 180	2,30 1,30	106,6	86	102	114	321	207

BODINE/DAYTON DIRECT INTERCHANGE

See Cross Reference page 31

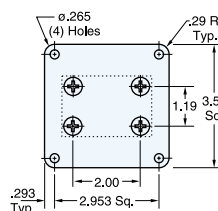


RIGHT-ANGLE GEARMOTOR BASE KIT

This optional base kit can be used with the 10 series right-angle gearmotors. (Includes screws for mounting to gearbox, but not the application).



Catalog Number
M1760006



See page 11 for optional conduit box



Start with a 600 Series IRONMAN™ or 500 Series Bravo™ worm gear reducer. Then add one of LEESON's dozens of NEMA C face DC motors to produce a performance-matched GEAR+MOTOR™ package.

Bravo™ aluminum-housed gear reducers for specific OEM applications with size and weight targets.

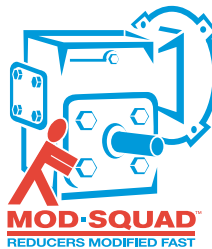


IRONMAN™ cast iron-housed gear reducers for general industrial applications and other heavy-duty uses.

Stock Gear+Motors Listings of off-the-shelf GEAR+MOTORS™ using LEESON DC motors combined with IRONMAN™ general-purpose and WASHGUARD® washdown-duty reducers follow on pages 16 and 17. These ratings have been pre-selected and assembled to provide a variety of torque and output speed combinations that meet many general industrial gearmotor needs. They're ready for immediate shipment, saving you time and expense.

Modified Stock Gear+Motors

Stock GEAR+MOTORS™ can also be modified using the accessories shown on this page. Modifications may be field assembled from off-the-shelf kits, or factory assembled by the LEESON Gear ModSquad™ on a quick-ship basis. Request Catalog 6050 or check www.leeson.com for more information.



Custom-Selected Gear+Motors

For specialized needs not covered by pre-selected GEAR+MOTOR™ units, LEESON's Gear ModSquad™ can assemble IRONMAN™ gearmotor packages up to 1500W. Request Catalog 6050 or check www.leeson.com for more information.

In addition, for OEM applications targeting compact size and lightweight, GEAR+MOTORS™ can be assembled using LEESON/Hydro-Mec Bravo™ reducers. These modular, aluminum-housed units weigh up to two-thirds less and are one-third smaller than comparable cast iron designs. Request Catalog 5050 for details.

ACCESSORIES



Vertical Mount Kit



Horizontal Base Kit



J Mount Kit



Output Flange Mount Kit



STOCK FRACTIONAL & INTEGRAL HP GEAR+MOTORS

DC THYRISTOR GEARMOTORS • STYLE BMQ
FOR ADJUSTABLE SPEED SERVICE



600 SERIES BMQ STYLE CAST IRON REDUCERS DC THYRISTOR MOTOR • TOTALLY ENCLOSED • CONTINUOUS DUTY PERMANENT MAGNET • 20:1 SPEED RANGE WITH FULL WAVE THYRISTOR CONTROLS

Output RPM	Output TQ Nm	Input kW	Input HP	GEAR+MOTOR™ Catalog Number	OHL	Service* Factor	NEMA Frame	ARM Volts DC	Control Volts AC Input	F.L. Amps DC	App. Wgt. (Kg.)	AG Dim. (mm)
175 10:1 Ratio	11,5	0,25	1/3	W6130075-098004 W6130075-098005	200	2,15	SS56C	90 180	115 230	3,5 1,7	18,1 17,7	235
	17,6	0,37	1/2	W6130075-098000 W6130075-098008	200	1,40	SS56C	90 180	115 230	5,0 2,5	18,6 19,1	248
	26,3	0,55	3/4	W6130075-098032 W6130075-098069	200	0,94	SS56C	90 180	115 230	7,3 3,8	18,6	311 298
	35,6	0,75	1	W6180111-108022 W6180111-108023	500	1,38	S56C	90 180	115 230	10,0 5,0	29,0	337
	54,0	1,1	1 1/2	W6210111-108092	700	1,40	S56C	180	230	7,6	36,7	375
	72,1	1,5	2	W6210147-128010	700	1,05	145TC	180	230	9,5	49,0	458
117 15:1 Ratio	16,2	0,25	1/3	W6130076-098004 W6130076-098005	200	1,69	SS56C	90 180	115 230	3,5 1,7	18,1 17,7	235
	24,4	0,37	1/2	W6130076-098000 W6130076-098008	200	1,12	SS56C	90 180	115 230	5,0 2,5	18,6 19,1	248
	37,9	0,55	3/4	W6180112-098032 W6180112-098069	500	1,40	SS56C	90 180	115 230	7,3 3,8	23,1	311 298
	50,4	0,75	1	W6180112-108022 W6180112-108023	500	1,05	S56C	90 180	115 230	10,0 5,0	29,0	337
	77,4	1,1	1 1/2	W6210112-108092	700	1,06	S56C	180	230	7,6	36,7	375
	104,0	1,5	2	W6240184-128010	900	1,17	145TC	180	230	9,5	56,2	458
88 20:1 Ratio	20,0	0,25	1/3	W6130077-098004 W6130077-098005	200	1,36	SS56C	90 180	115 230	3,5 1,7	18,1 17,7	235
	30,4	0,37	1/2	W6180113-098000 W6180113-098008	500	1,78	SS56C	90 180	115 230	5,0 2,5	21,8 22,2	248
	49,6	0,55	3/4	W6180113-098032 W6180113-098069	500	1,09	SS56C	90 180	115 230	7,3 3,8	23,1	311 298
	66,7	0,75	1	W6210113-108022 W6210113-108023	700	1,26	S56C	90 180	115 230	10,0 5,0	31,8	337
	100,3	1,1	1 1/2	W6240149-108092	900	1,24	S56C	180	230	7,6	44,0	375
	135,8	1,5	2	W6260185-128010	1000	1,22	145TC	180	230	9,5	62,1	458
58 30:1 Ratio	27,9	0,25	1/3	W6130079-098004 W6130079-098005	200	0,98	SS56C	90 180	115 230	3,5 1,7	18,1 17,7	235
	45,4	0,37	1/2	W6180115-098000 W6180115-098008	500	1,21	SS56C	90 180	115 230	5,0 2,5	21,8 22,2	248
	70,6	0,55	3/4	W6210115-098032 W6210115-098069	700	1,20	SS56C	90 180	115 230	7,3 3,8	25,9	311 298
	95,2	0,75	1	W6240151-108022 W6240151-108023	900	1,32	S56C	90 180	115 230	10,0 5,0	39,0	337
	141,8	1,1	1 1/2	W6260151-108092	1000	1,18	S56C	180	230	7,6	49,9	375
	36,7	0,25	1/3	W6180116-098004 W6180116-098005	500	1,48	SS56C	90 180	115 230	3,5 1,7	21,3 20,9	235
44 40:1 Ratio	55,6	0,37	1/2	W6180116-098000 W6180116-098008	500	0,98	S56C	90 180	115 230	5,0 2,5	21,8 22,2	248
	87,7	0,55	3/4	W6210116-098032 W6210116-098069	700	0,96	SS56C	90 180	115 230	7,3 3,8	25,9	311 298
	117,2	0,75	1	W6240152-108022 W6240152-108023	900	1,06	S56C	90 180	115 230	10,0 5,0	39,0	337
	43,6	0,25	1/3	W6180117-098004 W6180117-098005	500	1,20	SS56C	90 180	115 230	3,5 1,7	21,3 20,9	235
35 50:1 Ratio	71,4	0,37	1/2	W6210117-098000 W6210117-098008	700	1,14	SS56C	90 180	115 230	5,0 2,5	24,5 25,0	248
	104,8	0,55	3/4	W6240153-098032 W6240153-098069	900	1,15	SS56C	90 180	115 230	7,3 3,8	33,1	311 298
	143,5	0,75	1	W6260153-108022 W6260153-108023	1000	1,11	S56C	90 180	115 230	10,0 5,0	44,9	337
	50,6	0,25	1/3	W6180118-098004 W6180118-098005	500	0,97	SS56C	90 180	115 230	3,5 1,7	21,3 20,9	235
29 60: Ratio	77,6	0,37	1/2	W6210118-098000 W6210118-098008	700	0,98	SS56C	90 180	115 230	5,0 2,5	24,5 25,0	248
	120,2	0,55	3/4	W6240154-098032 W6240154-098069	900	0,95	SS56C	90 180	115 230	7,3 3,8	33,1	311 298

* Service Factor is based on maximum torque rating of reducer.

STOCK FRACTIONAL & INTEGRAL HP GEAR+MOTORS



WASHGUARD® DC THYRISTOR GEARMOTORS • STYLE WBMQ FOR ADJUSTABLE SPEED SERVICE



600 SERIES WBMQ STYLE CAST IRON WASHDOWN REDUCERS DC THYRISTOR MOTOR • TOTALLY ENCLOSED • CONTINUOUS DUTY PERMANENT MAGNET • 20:1 SPEED RANGE WITH FULL WAVE THYRISTOR CONTROLS 1750 RPM INPUT

Output RPM	Output TQ Nm	Input kW	Input HP	GEAR+MOTOR™ Catalog Number	OHL	Service* Factor	NEMA Frame	ARM Volts DC	Control Volts AC Input	F.L. Amps DC	App. Wgt. (Kg.)	AG Dim. (mm)
175 10:1 Ratio	11,5	0,25	1/3	W6133003-108424	200	2,15	S56C	90	115	3,5	19,5	245
	17,6	0,37	1/2	W6133003-108226 W6133003-108227	200	1,40	S56C	90 180	115 230	4,9 2,4	25,0 25,4	300
	26,3	0,55	3/4	W6133003-108228 W6133003-108229	200	0,94	S56C	90 180	115 230	7,0 3,5	30,4	351
	35,6	0,75	1	W6183003-108230 W6183003-108231	500	1,38	S56C	90 180	115 230	10,0 5,0	29,9	349 324
	54,0	1,1	1 1/2	W6213003-108232	700	1,40	S56C	180	230	7,6	36,3	375
117 15:1 Ratio	16,2	0,25	1/3	W6133004-108424	200	1,69	VS56C	90	115	3,5	19,5	245
	24,4	0,37	1/2	W6133004-108226 W6133004-108227	200	1,12	S56C	90 180	115 230	4,9 2,4	25,0 25,4	300
	37,9	0,55	3/4	W6183004-108228 W6183004-108229	500	1,40	S56C	90 180	115 230	7,0 3,5	33,6	351
	50,4	0,75	1	W6183004-108230 W6183004-108231	500	1,05	S56C	90 180	115 230	10,0 5,0	29,9	349 324
	77,4	1,1	1 1/2	W6213004-108232	700	1,06	S56C	180	230	7,6	36,3	375
88 20:1 Ratio	20,0	0,25	1/3	W6133005-108424	200	1,36	S56C	90	115	3,5	19,5	245
	30,4	0,37	1/2	W6183005-108226 W6183005-108227	500	1,78	S56C	90 180	115 230	4,9 2,4	28,1 28,6	300
	49,6	0,55	3/4	W6183005-108228 W6183005-108229	500	1,09	S56C	90 180	115 230	7,0 3,5	33,6	351
	66,7	0,75	1	W6213005-108230 W6213005-108231	700	1,26	S56C	90 180	115 230	10,0 5,0	32,7	349 324
	100,3	1,1	1 1/2	W6243005-108232	900	1,24	S56C	180	230	7,6	43,6	375
58 30:1 Ratio	27,9	0,25	1/3	W6133007-108424	200	0,98	S56C	90	115	3,5	19,5	245
	45,4	0,37	1/2	W6183007-108226 W6183007-108227	500	1,21	S56C	90 180	115 230	4,9 2,4	28,1 28,6	300
	70,6	0,55	3/4	W6213007-108228 W6213007-108229	700	1,20	S56C	90 180	115 230	7,0 3,5	36,3	351
	95,2	0,75	1	W6243007-108230 W6243007-108231	900	1,32	S56C	90 180	115 230	10,0 5,0	39,9	349 324
	141,8	1,1	1 1/2	W6263007-108232	1000	1,18	S56C	180	230	7,6	49,4	375
44 40:1 Ratio	36,7	0,25	1/3	W6183008-108424	500	1,48	S56C	90	115	3,5	22,7	245
	55,6	0,37	1/2	W6183008-108226 W6183008-108227	500	0,98	S56C	90 180	115 230	4,9 2,4	28,1 28,6	300
	87,7	0,55	3/4	W6213008-108228 W6213008-108229	700	0,96	S56C	90 180	115 230	7,0 3,5	43,6	351
	117,2	0,75	1	W6243008-108230 W6243008-108231	900	1,06	S56C	90 180	115 230	10,0 5,0	39,9	349 324
35 50:1 Ratio	43,6	0,25	1/3	W6183009-108424	500	1,20	S56C	90	115	3,5	22,7	245
	71,4	0,37	1/2	W6213009-108226 W6213009-108227	700	1,14	S56C	90 180	115 230	4,9 2,4	30,8 30,4	300
	104,8	0,55	3/4	W6243009-108228 W6243009-108229	900	1,15	S56C	90 180	115 230	7,0 3,5	43,6	351
	143,5	0,75	1	W6263009-108230 W6263009-108231	1000	1,11	S56C	90 180	115 230	10,0 5,0	39,0	349 324
29 60:1 Ratio	50,6	0,25	1/3	W6183010-108424	500	0,97	S56C	90	115	3,5	22,7	245
	77,6	0,37	1/2	W6213010-108226 W6213010-108227	700	0,98	S56C	90 180	115 230	4,9 2,4	30,8 30,4	300
	120,2	0,55	3/4	W6243010-108228 W6243010-108229	900	0,95	S56C	90 180	115 230	7,0 3,5	43,6	351

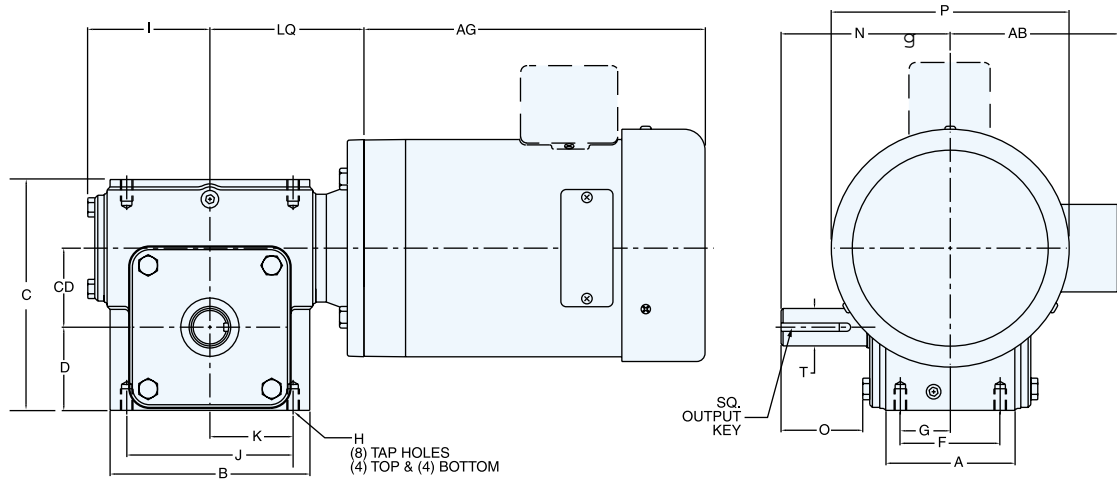
* Service Factor is based on maximum torque rating of reducer.

Note: Gear reducer catalog numbers are for left hand output shaft extensions. For right hand output shaft, specify GR1. For double output shaft extensions, consult LEESON for price and availability.

For dimensions, see page 18



FRACTIONAL & INTEGRAL HP GEAR+MOTORS DIMENSIONS



BMQ & BM STYLE GEARMOTOR DIMENSIONS (mm)

Series ^D	CD	A	B	C	D	F	G	H		I	J	K	LQ		N	O	P	T +0,000 -0,001	Output Key	AB
								Tap Size	Depth				BMQ 56/140TC	BM						
613	34	70	99	118	44	51	25	5/16-18 UNC	13	68	83	41	87	165	102	50	167	16	3/16 X 38	135
618	44	89	127	146	52	70	35	5/16-18 UNC	13	81	106	53	101	179	109	48	167	22	3/16 X 38	135
621	52	92	148	162	58	73	37	3/8-16 UNC	15	91	127	64	112	190	119	56	167	25	1/4 X 44	135
624	60	99	152	176	64	73	37	3/8-16 UNC	17	93	127	64	118	207	129	62	167	29	1/4 X 51	135
626	67	108	183	203	75	86	43	3/8-16 UNC	17	109	162	81	133	222	143	63	167	29	1/4 X 51	135

D Series number is the 3 digits immediately following the W prefix of the Gear+Motor catalog number.
g Conduit box top-mounted on WASHGUARD[®] models, side-mounted on general-purpose models.

AG DIMENSION – See GEAR+MOTORS pages 16 and 17 for AG dimension of individual ratings.