

SCR Rated - 10-100 In-Lbs Torque
Low Voltage - 36-100 In-Lbs Torque

90 & 180 Volts - TENV - PZ Series

Output RPM	F.L. Torque (Lb.in.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)				♥Notes
												P	X	XL	XH	
4	40	1/40	M1115002.00	✓	496	985.620	PZ5-30A	450	90	0.46	155	3.00	3.25	9.28	7.72	S, US
	40	1/40	M1125046.00	✓	496	985.623	PZ5-30A	450	180	0.19	155	3.00	3.25	9.3	7.74	S, US
10	100	1/20	M1115001.00	✓	496	985.621	PZ4-30E	180	90	0.54	155	3.00	3.25	9.28	7.72	S, US
	100	1/20	M1125047.00	✓	496	985.624	PZ4-30A	180	180	0.31	155	3.00	3.25	9.3	7.74	S, US
20	100	1/20	M1115000.00	✓	496	985.622	PZ4-30E	90	90	0.54	155	3.00	3.25	9.28	7.72	S, US
	100	1/20	M1125048.00	✓	496	985.625	PZ4-30A	90	180	0.31	155	3.00	3.25	9.3	7.74	S, US
30	100	1/17	M1125002.00	✓	539	985.627	PZ3-30B	60	90	0.8	155	3.00	2.68	8.74	7.18	S, US
	100	1/17	M1125037.00	✓	539	985.635	PZ3-30B	60	180	0.36	155	3.00	2.68	8.74	7.18	S, US
60	56	1/17	M1125003.00	✓	539	985.628	PZ3-30B	30	90	0.8	171	3.00	2.68	8.74	7.18	S, US
	56	1/17	M1125036.00	✓	539	985.634	PZ3-30B	30	180	0.36	171	3.00	2.68	8.74	7.18	S, US
100	36	1/17	M1125004.00	✓	539	985.626	PZ3-30B	18	90	0.8	171	3.00	2.68	8.74	7.18	S, US
	36	1/17	M1125035.00	✓	539	985.631	PZ3-30B	18	180	0.36	171	3.00	2.68	8.74	7.18	S, US
150	24	1/17	M1125005.00	✓	512	985.629	PZ2-30B	12	90	0.8	180	3.00	2.40	8.46	6.90	S, US
	24	1/17	M1125034.00	✓	512	985.633	PZ2-30B	12	180	0.36	180	3.00	2.40	8.46	6.90	S, US
300	10	1/17	M1125006.00	✓	512	985.630	PZ2-30B	6	90	0.8	180	3.00	2.40	8.46	6.90	S, US
	10	1/17	M1125033.00	✓	512	985.632	PZ2-30B	6	180	0.36	180	3.00	2.40	8.46	6.90	S, US

Specifications are subject to change without notice

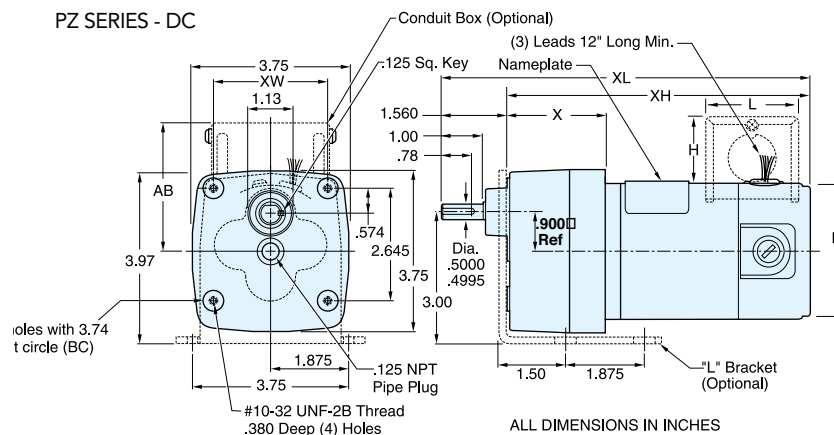
♥ Note listing on inside back flap

12 Volts - TENV - PZ Series

Output RPM	F.L. Torque (Lb.in.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)				♥Notes
												P	X	XL	XH	
10	100	1/20	M1125213.00	✓	549	985.653	PZ4-30	180	12	2.7	155	3.00	3.25	9.28	7.72	S, US
30	100	1/17	M1125214.00	✓	583	985.654	PZ3-30	60	12	5.2	155	3.00	2.68	8.74	7.18	S, US
55	56	1/17	M1125215.00	✓	583	985.655	PZ3-30	30	12	5.6	171	3.00	2.68	8.74	7.18	S, US

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♥ Note listing on inside back flap



Conduit Box Dimensions (IN)

Frame	XW	AB	H	L
30/31	2.63	3.47	1.90	3.13

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Gearmotors

Parallel Shaft - P300 Series - DC

SCR Rated - 27-353 In-Lbs. Torque

Low Voltage - 113-353 In-Lbs Torque



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Precision machined in-line steel gears
- 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
- Optional conduit box available

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
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- Overhung load capacities shown are at center of output shaft
- For additional information, see Bulletin 1830
- **Bison/Dayton direct interchange**

SCR Rated - 27-353 In-Lbs. Torque
Low Voltage - 113-353 In-Lbs Torque

90 & 180 Volts - TENV - P300 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)				♥Notes
												P	X	XL	XH	
5	353	1/20	M1115024.00	✓	710	985.602	P303-30E	336	90	0.54	565	3.00	3.54	10.07	8.57	S, US
9	268	1/20	M1115025.00	✓	710	985.603	P303-30E	216	90	0.54	474	3.00	3.54	10.07	8.57	S, US
18	150	1/20	M1115026.00	✓	710	985.604	P303-30E	103	90	0.54	385	3.00	3.54	10.07	8.57	S, US
20	140	1/20	M1125092.00	✓	729	985.607	P303-31E	90	180	0.31	370	3.11	3.54	10.07	8.57	S, US
24	280	1/8	M1125069.00	✓	729	985.611	P303-30E	76	90	1.3	353	3.00	3.54	11.54	10.04	S, US
31	220	1/8	M1125070.00	✓	729	985.612	P303-30E	58	90	1.3	327	3.00	3.54	11.54	10.04	S, US
31	220	1/8	M1125038.00	✓	729	985.617	P303-30E	58	180	0.66	327	3.00	3.54	11.54	10.04	S, US
34	82	1/20	M1115027.00	✓	710	985.605	P303-30E	52	90	0.54	318	3.00	3.54	10.07	8.57	S, US
51	130	1/8	M1125071.00	✓	670	985.615	P302-30E	35	90	1.3	277	3.00	3.54	11.54	10.04	S, US
51	130	1/8	M1125039.00	✓	670	985.614	P302-30E	35	180	0.66	277	3.00	3.54	11.54	10.04	S, US
51	55	1/20	M1115028.00	✓	654	985.606	P302-30E	35	90	0.54	281	3.00	3.54	10.07	8.57	S, US
61	113	1/8	M1125072.00	✓	670	985.610	P302-30E	29	90	1.3	267	3.00	3.54	11.54	10.04	S, US
60	45	1/20	M1125093.00	✓	670	985.609	P302-31E	29	180	0.31	267	3.11	3.54	10.07	8.57	S, US
94	77	1/8	M1125073.00	✓	670	985.613	P302-30E	19	90	1.3	236	3.00	3.54	11.54	10.04	S, US
94	77	1/8	M1125040.00	✓	670	985.618	P302-30E	19	180	0.66	236	3.00	3.54	11.54	10.04	S, US
109	27	1/20	M1115029.00	✓	654	985.601	P302-30E	16	90	0.54	224	3.00	3.54	10.07	8.57	S, US
106	26	1/20	M1125094.00	C/A	654	985.608	P302-31E	16	180	0.31	222	3.11	3.54	10.07	8.57	S, US
167	43	1/8	M1125074.00	✓	670	985.616	P302-30E	11	90	1.3	197	3.00	3.54	11.54	10.04	S, US
170	43	1/8	M1125041.00	✓	670	985.619	P302-30E	11	180	0.66	196	3.00	3.54	11.54	10.04	S, US

C/A - Check Availability

♥ Note listing on inside back flap

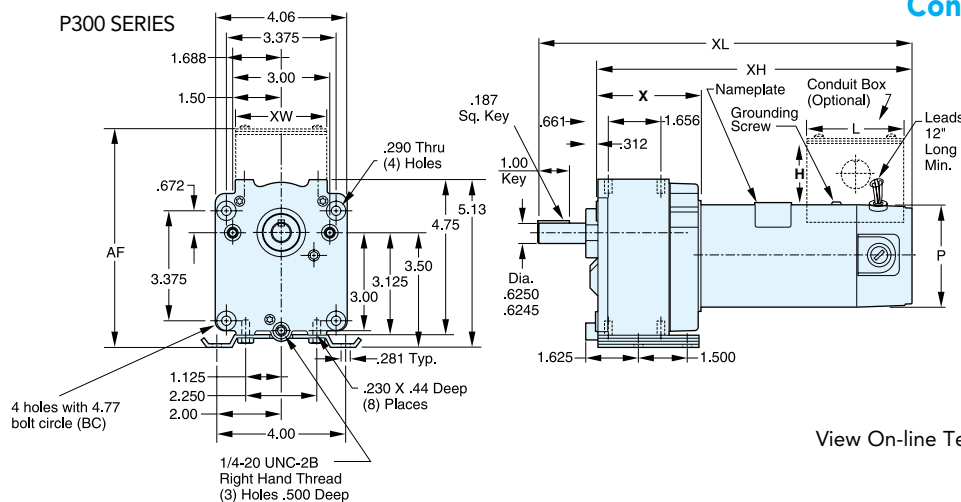
Specifications are subject to change without notice

12 Volt - TENV - P300 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)				♥Notes
												P	X	XL	XH	
5	353	1/20	M1125217.00	✓	729	985.657	P303-30	336	12	5.6	565	3.00	3.85	10.07	8.57	S, US
31	220	1/8	M1125218.00	✓	746	985.658	P303-30	58	12	10.6	327	3.00	3.54	11.54	10.04	S, US
51	130	1/8	M1125219.00	✓	686	985.659	P302-30	35	12	10.3	277	3.00	3.23	11.54	10.04	S, US
61	113	1/8	M1125220.00	✓	686	985.660	P302-30	29	12	10.4	267	3.00	3.23	11.54	10.04	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information



Gearmotors

Off-Set Shaft Gearmotors - OS300 Series - DC

SCR Rated - 130-268 In-Lbs. Torque
Low Voltage - 130-268 In-Lbs. Torque



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Precision machined in-line steel gears
- 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
- Optional conduit box available

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
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- Overhung load capacities shown are at center of output shaft

Off-Set Shaft Gearmotors - OS300 Series - DC

SCR Rated - 130-268 In-Lbs. Torque
Low Voltage - 130-268 In-Lbs. Torque

90 Volts - TENV - OS300 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Overhung Load (lb.)	Dimensions (inches)				♥ Notes
												P	X	XL	XH	
9	268	1/20	M1125251.00	√	599	985.692	OS303-30	210	90	0.54	474	3.00	2.81	4.50	8.52	S, US
19	150	1/20	M1125250.00	√	599	985.691	OS303-30	103	90	0.56	385	3.00	2.81	4.50	8.52	S, US
24	280	1/8	M1125249.00	√	615	985.690	OS303-30	76	90	1.3	353	3.00	2.81	6.42	10.45	S, US
31	220	1/8	M1125248.00	√	615	985.689	OS303-30	58	90	1.4	327	3.00	2.81	6.42	10.45	S, US
51	130	1/8	M1125247.00	√	615	985.688	OS303-30	35	90	1.4	277	3.00	2.81	6.42	10.45	S, US

Specifications are subject to change without notice

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12 Volts - TENV - OS300 Series

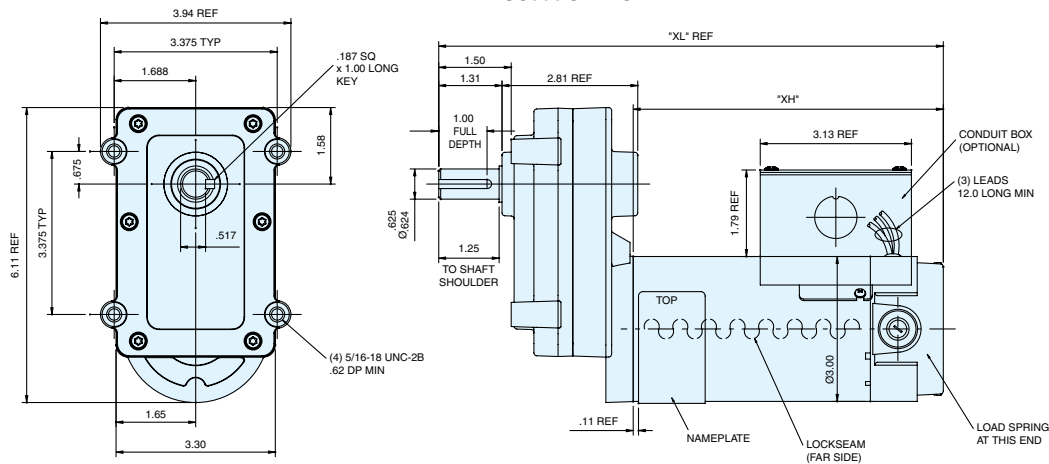
Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Overhung Load (lb.)	Dimensions (inches)				♥ Notes
												P	X	XL	XH	
9	268	1/20	M1125256.00	√	615	985.697	OS303-30	210	12	4.5	474	3.00	2.81	4.50	8.52	S, US
18	150	1/20	M1125255.00	√	615	985.696	OS303-30	103	12	5	385	3.00	2.08	4.50	8.52	S, US
24	280	1/8	M1125254.00	√	629	985.695	OS303-30	76	12	10.6	353	3.00	2.81	6.42	10.45	S, US
31	220	1/8	M1125253.00	√	629	985.694	OS303-30	58	12	10.6	327	3.00	2.81	6.42	10.45	S, US
51	130	1/8	M1125252.00	C/A	629	985.693	OS303-30	35	12	10.3	277	3.00	2.81	6.42	10.45	S, US

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

OS300 SERIES



ALL DIMENSIONS IN INCHES

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DC Motors

Gearmotors

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Other Products

Gearmotors

PE350 Series - Parallel Shaft - DC

SCR Rated - 25-371 In-Lbs. Torque
Low Voltage - 155-341 In-Lbs Torque



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Rugged die cast aluminum gear 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 long life
- High carbon alloy output shaft provides maximum strength and rigidity
- All needle bearing journals are precision ground after heat treating to provide maximum fit and finish
- Heavy duty industrial oil seals keep lubricant in and dirt out
- Gears and bearings are splash lubricated with permanent, heavy duty gear oil
- Optional conduit box available

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
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- Overhung load capacities shown are at center of output shaft
- **Bodine/Baldor direct interchange**

SCR Rated - 25-371 In-Lbs. Torque
Low Voltage - 155-341 In-Lbs Torque

90 & 180 Volts - TENV - PE350 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Overhung Load (lb.)	Dimensions (inches)		♥Notes
												XL	XH	
7	330	1/8	M1135106.00	✓	718	M34D25NZ62	P353-34	336	90	0.7	565	11.31	9.31	S, US
	330	1/8	M1135139.00	✓	718	M34D25NZ71	P353-34	336	180	0.35	565	11.31	9.31	S, US
14	341	1/8	M1135107.00	✓	718	M34D25NZ61	P353-34	180	90	1	465	11.31	9.31	S, US
	341	1/8	M1135140.00	✓	718	M34D25NZ72	P353-34	180	180	0.5	465	11.31	9.31	S, US
21	371	1/4	M1135117.00	✓	752	M34D25NZ52	P353-34	124	90	1.1	413	13.31	11.31	S, US
	371	1/4	M1135141.00	✓	752	M34D25NZ73	P353-34	124	180	0.55	413	13.31	11.31	S, US
27	305	1/4	M1135115.00	✓	752	M34D25NZ51	P353-34	91	90	1.5	374	13.31	11.31	S, US
	305	1/4	M1135142.00	✓	752	M34D25NZ74	P353-34	91	180	0.75	374	13.31	11.31	S, US
42	280	1/4	M1135108.00	✓	752	M34D25NZ53	P353-34	58	90	2.3	327	13.31	11.31	S, US
	280	1/4	M1135143.00	✓	752	M34D25NZ75	P353-34	58	180	1.2	327	13.31	11.31	S, US
50	250	1/4	M1135109.00	✓	752	M34D25NZ54	P353-34	50	90	2.3	315	13.31	11.31	S, US
	250	1/4	M1135144.00	✓	752	M34D25NZ76	P353-34	50	180	1.2	315	13.31	11.31	S, US
62	220	1/4	M1135110.00	✓	752	M34D25NZ55	P353-34	43	90	2.3	303	13.31	11.31	S, US
	220	1/4	M1135145.00	✓	752	M34D25NZ77	P353-34	43	180	1.2	303	13.31	11.31	S, US
83	155	1/4	M1135114.00	✓	710	M34D25NZ57	P352-34	29	90	2.3	267	13.31	11.31	S, US
	155	1/4	M1135146.00	✓	710	M34D25NZ78	P352-34	29	180	1.2	267	13.31	11.31	S, US
125	100	1/4	M1135111.00	✓	710	M34D25NZ56	P352-34	23	90	2	256	13.31	11.31	S, US
	100	1/4	M1135147.00	✓	710	M34D25NZ79	P352-34	23	180	1	256	13.31	11.31	S, US
165	70	1/4	M1135112.00	✓	710	M34D25NZ58	P352-34	15	90	2	232	13.31	11.31	S, US
	70	1/4	M1135148.00	✓	710	M34D25NZ80	P352-34	15	180	1	232	13.31	11.31	S, US
250	45	1/4	M1135116.00	✓	710	M34D25NZ60	P352-34	10	90	2	201	13.31	11.31	S, US
	45	1/4	M1135149.00	✓	710	M34D25NZ81	P352-34	10	180	1	201	13.31	11.31	S, US
500	25	1/4	M1135113.00	✓	710	M34D25NZ59	P352-34	5	90	2	194	13.31	11.31	S, US
	25	1/4	M1135150.00	✓	710	M34D25NZ82	P352-34	5	180	1	194	13.31	11.31	S, US

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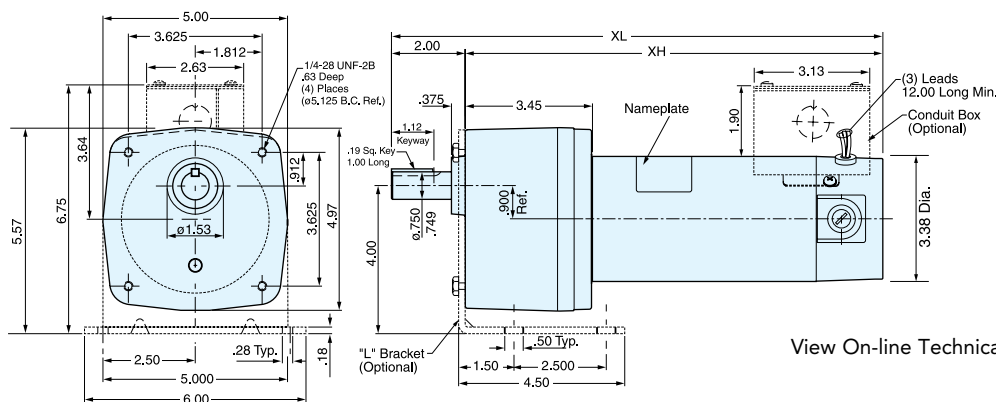
12 Volts - TENV - PE350 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Overhung Load (lb.)	Dimensions (inches)		♥Notes
												XL	XH	
14	341	1/8	M1135243.00	✓	733	M34D25NZ154	P353-34	180	12	8.7	465	11.05	9.05	S, US
42	325	1/4	M1135244.00	✓	768	M34D25NZ155	P353-34	58	12	21	327	13.31	11.31	S, US
62	220	1/4	M1135245.00	✓	768	M34D25NZ156	P353-34	43	12	21	303	13.31	11.31	S, US
83	155	1/4	M1135246.00	✓	729	M34D25NZ157	P352-34	29	12	21	267	13.31	11.31	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

PE350 SERIES - DC



View On-line Technical Information



Gearmotors

Parallel Shaft - P1100 Series - DC

SCR Rated - 105-1112 In-Lbs. Torque
Low Voltage - 320-1087 In-Lbs. Torque



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Rugged die cast aluminum gear 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 long life
- High carbon alloy output shaft provides maximum strength and rigidity
- All needle bearing journals are precision ground after heat treating to provide maximum fit and finish
- Heavy duty industrial oil seals keep lubricant in and dirt out
- Gears and bearings are splash lubricated with permanent, heavy duty gear oil
- Conduit box included as standard

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
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- Overhung load capacities shown are at center of output shaft
- For additional information, see Bulletin 1830
- **Bison/Dayton direct interchange**

SCR Rated - 105-1112 In-Lbs. Torque
Low Voltage - 320-1087 In-Lbs. Torque

90 Volts - Totally Enclosed - Rigid Base - P1100 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)		♥Notes
												XL	XH	
8	1087	1/4	108700.00	✓	1224	4D17NZ17	P1103-48	212	90	2.7	700	14.24	12.74	S, US
12	1030	1/4	108701.00	✓	1224	4D17NZ18	P1103-48	143	90	2.7	700	14.24	12.74	S, US
18	750	1/4	108702.00	✓	1224	4D17NZ19	P1103-48	95	90	2.7	700	14.24	12.74	S, US
42	353	1/4	108703.00	✓	1194	4D17NZ20	P1102-48	42	90	2.7	650	14.24	12.74	S, US
60	238	1/4	108704.00	✓	1194	4D17NZ21	P1102-48	29	90	2.7	625	14.24	12.74	S, US
92	160	1/4	108705.00	✓	1194	4D17NZ22	P1102-48	19	90	2.7	575	14.24	12.74	S, US
135	105	1/4	108706.00	✓	1194	4D17NZ23	P1102-48	13	90	2.7	525	14.24	12.74	S, US
18	1112	1/2	108707.00	✓	1323	4D17FZ23	P1103-48	95	90	5	700	16.49	14.99	S, US
33	822	1/2	108708.00	✓	1323	4D17FZ24	P1103-48	53	90	5	650	16.49	14.99	S, US
42	705	1/2	108709.00	✓	1298	4D17FZ25	P1102-48	42	90	5	650	16.49	14.99	S, US
60	476	1/2	108710.00	✓	1298	4D17FZ26	P1102-48	29	90	5	625	16.49	14.99	S, US
92	320	1/2	108711.00	✓	1298	4D17FZ27	P1102-48	19	90	5	575	16.49	14.99	S, US
135	210	1/2	108712.00	✓	1298	4D17FZ28	P1102-48	13	90	5	525	16.49	14.99	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

12 Volts - Totally Enclosed - Rigid Base - P1100 Series

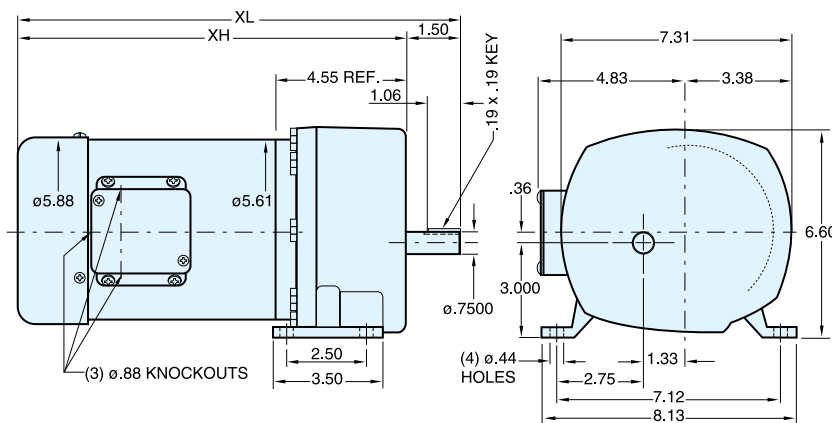
Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)		♥Notes
												XL	XH	
8	1087	1/4	108729.00	C/A	1250	4D17NZ43	P1103-48	212	12	21	700	13.74	12.24	S, US
60	238	1/4	108730.00	✓	1223	4D17NZ44	P1102-48	29	12	21	625	13.74	12.24	S, US
42	705	1/2	108731.00	✓	1323	4D17FZ52	P1102-48	42	12	40	650	15.99	14.49	S, US
92	320	1/2	108732.00	C/A	1323	4D17FZ53	P1102-48	19	12	40	575	15.99	14.49	S, US

C/A - Check Availability

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P1100 SERIES - DC



ALL DIMENSIONS IN INCHES

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Right-Angle DC Gearmotors

SCR Rated - 5-135 In-Lbs. Torque
Low Voltage - 25-135 In-Lbs. Torque



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

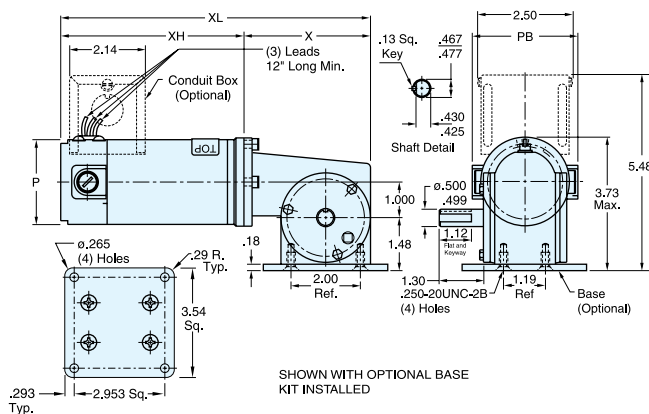
Features:

- Worm-type right-angle gearing features hardened, steel worm with bronze worm wheel for long life and quiet operation
- Precision machined aluminum gear housing
- Lubrication is permanent with an oil bath
- Gearbox has all ball bearings
- Output shaft is field interchangeable from left hand to right hand style by reassembly
- Double output shaft available as a factory option
- Optional conduit box available
- Optional gearbox base available (10 Series only)

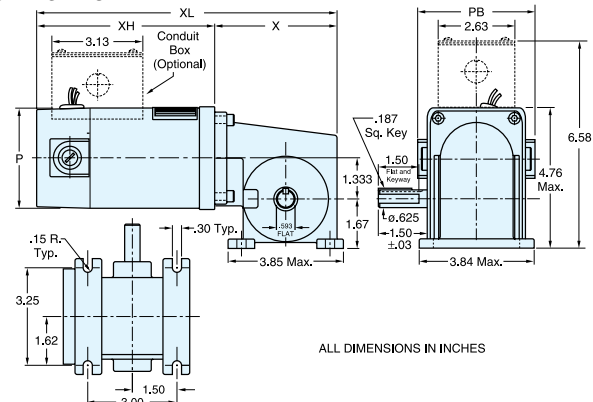
Application Notes:

- These right-angle gearmotors have a lubrication breather positioned for horizontal mounting. For other mountings, the breather plug must be reoriented by using a 90 deg 1/8" NPT taper pipe elbow (See drawing). Elbow not available from LEESON
- 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
- Overhung load capacities shown are at center of output shaft
- For additional information, see Bulletin 1830

10 SERIES - DC



13 SERIES - DC



Right-Angle DC Gearmotors

SCR Rated - 5-135 In-Lbs. Torque & Low Voltage - 25-135 In-Lbs. Torque

90 & 180 Volts - TENV - Right-Angle

Output RPM	F.L. Torque (Lb.in.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)					Notes
												P	PB	X	XL	XH	
42	22	1/17	M1115018.00	✓	556	985.504	10F60-25D	60	90	0.9	185	2.5	3	3.6	8.79	5.19	S, US
62	19	1/17	M1115019.00	✓	556	985.505	10F40-25D	40	90	.87	185	2.5	3	3.6	8.79	5.19	S, US
125	16	1/17	M1115020.00	✓	556	985.506	10F20-25D	20	90	.85	185	2.5	3	3.6	8.79	5.19	S, US
250	10	1/17	M1115021.00	✓	556	985.509	10F10-25D	10	90	1.0	185	2.5	3	3.6	8.79	5.19	S, US
500	5	1/17	M1115022.00	✓	556	985.507	10F05-25D	5	90	1.0	185	2.5	3	3.6	8.79	5.19	S, US
42	30	1/12	M1135053.00	✓	556	M34D25NZ30	13F60-34A	60	180	0.53	235	3.38	4	4.5	9.64	5.14	S, US
62	35	1/12	M1135054.00	✓	556	M34D25NZ31	13F40-34A	40	180	0.53	235	3.38	4	4.5	9.64	5.14	S, US
125	18	1/12	M1135055.00	C/A	556	CM34D25NZ32	13F20-34A	20	180	0.53	235	3.38	4	4.5	9.64	5.14	S, US
250	10	1/12	M1135056.00	C/A	556	M34D25NZ47	13F10-34A	10	180	0.53	235	3.38	4	4.5	9.64	5.14	S, US
500	5	1/12	M1135057.00	C/A	556	M34D25NZ48	13F05-34A	5	180	0.53	235	3.38	4	4.5	9.64	5.14	S, US
42	80	1/8	M1135069.00	✓	641	M34D25NZ18	13F60-34C	60	90	1.4	235	3.38	4	4.5	10.64	6.14	S, US
62	70	1/8	M1135038.00	✓	641	M34D25NZ26	13F40-34C	40	90	1.4	235	3.38	4	4.5	10.64	6.14	S, US
62	70	1/8	M1135058.00	✓	641	M34D25NZ26	13F40-34C	40	180	0.7	235	3.38	4	4.5	10.64	6.14	S, US
125	45	1/8	M1135039.00	✓	641	M34D25NZ7	13F20-34C	20	90	1.4	235	3.38	4	4.5	10.64	6.14	S, US
125	45	1/8	M1135059.00	✓	641	M34D25NZ27	13F20-34C	20	180	0.7	235	3.38	4	4.5	10.64	6.14	S, US
250	25	1/8	M1135040.00	✓	641	M34D25NZ8	13F10-34C	10	90	1.4	235	3.38	4	4.5	10.64	6.14	S, US
250	25	1/8	M1135060.00	✓	641	M34D25NZ28	13F10-34C	10	180	0.7	235	3.38	4	4.5	10.64	6.14	S, US
500	13	1/8	M1135041.00	✓	641	M34D25NZ9	13F05-34C	5	90	1.4	235	3.38	4	4.5	10.64	6.14	S, US
500	13	1/8	M1135061.00	C/A	641	M34D25NZ29	13F05-34C	5	180	0.7	235	3.38	4	4.5	10.64	6.14	S, US
62	135	1/4	M1135042.00	✓	691	M34D25NZ10	13F40-34G	40	90	2.3	235	3.38	4	4.5	12.64	8.14	S, US
62	135	1/4	M1135062.00	✓	691	M34D25NZ33	13F40-34G	40	180	1.3	235	3.38	4	4.5	12.64	8.14	S, US
83	125	1/4	M1135043.00	✓	691	M34D25NZ11	13F30-34G	30	90	2.3	235	3.38	4	4.5	12.64	8.14	S, US
83	125	1/4	M1135063.00	✓	691	M34D25NZ34	13F30-34G	30	180	1.3	235	3.38	4	4.5	12.64	8.14	S, US
125	90	1/4	M1135044.00	✓	691	M34D25NZ12	13F20-34G	20	90	2.3	235	3.38	4	4.5	12.64	8.14	S, US
125	90	1/4	M1135064.00	✓	691	M34D25NZ35	13F20-34G	20	180	1.3	235	3.38	4	4.5	12.64	8.14	S, US
250	50	1/4	M1135045.00	✓	691	M34D25NZ13	13F10-34G	10	90	2.3	235	3.38	4	4.5	12.64	8.14	S, US
250	50	1/4	M1135065.00	✓	691	M34D25NZ36	13F10-34G	10	180	1.3	235	3.38	4	4.5	12.64	8.14	S, US
500	30	1/4	M1135046.00	✓	691	M34D25NZ14	13F05-34G	5	90	2.3	235	3.38	4	4.5	12.64	8.14	S, US
500	30	1/4	M1135066.00	✓	691	M34D25NZ37	13F05-34G	5	180	1.3	235	3.38	4	4.5	12.64	8.14	S, US

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

12 Volts - TENV - Right-Angle Series

Output RPM	F.L. Torque (Lb.in.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)					Notes
												P	PB	X	XL	XH	
42	80	1/8	M1135249.00	C/A	654	M34D25NZ158	13F60-34	60	12	11	235	3.38	4.21	4.5	10.39	5.89	S, US
250	25	1/8	M1135250.00	✓	654	M34D25NZ159	13F10-34	10	12	11	235	3.38	4.21	4.5	10.39	5.89	S, US
62	135	1/4	M1135251.00	✓	700	M34D25NZ160	13F40-34	40	12	21	235	3.38	4.21	4.5	12.64	8.14	S, US
125	90	1/4	M1135252.00	✓	700	M34D25NZ161	13F20-34	20	12	21	235	3.38	4.21	4.5	12.64	8.14	S, US

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Bravo™ Series 12 SUB-FHP - DC Right-Angle Gearmotors



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Worm-type right-angle gearing features hardened, steel worm with bronze worm wheel for long life and quiet operation
- Single piece die cast aluminum alloy housing is vacuum impregnated with Resinon RT for protection and sealing
- Light weight gearbox combines high tensile strength along with being precision machined for alignment of bearings and gearing
- High temperature Nitrile seals for optimum seal life
- Gearbox provided with solid output shaft, but can be converted to a hollow output shaft. Simply remove the solid shaft by removing the Snap rings
- T-base feet provided are removable to convert to face mounting
- Optional conduit box available

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**Bravo™ Series 12 SUB-FHP - DC
Right-Angle Gearmotors**

90 Volts - Totally Enclosed - Right-Angle

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Enclosure	Gearmotor Type & Frame	Ratio to 1	Full Arm. Volts DC	Load Amps. DC	♥Notes
28	125	1/8	M1135292.00	✓	655	M34D17NZ31	TENV	12B60-34D	61	90	1.6	S, US, 12
45	87	1/8	M1135291.00	C/A	655	M34D17NZ30	TENV	12B39-34D	39	90	1.6	S, US, 12
58	158	1/4	M1135290.00	✓	692	M34D17FZ7	TEFC	12B30-34G	30	90	2.8	S, US, 13
90	100	1/4	M1135289.00	✓	692	M34D17FZ6	TEFC	12B19-34G	19	90	2.6	S, US, 13
115	85	1/4	M1135288.00	C/A	692	M34D17FZ5	TEFC	12B15-34G	15	90	2.6	S, US, 13
167	61	1/4	M1135287.00	✓	692	M34D17FZ4	TEFC	12B11-34G	10.6	90	2.6	S, US, 13
250	46	1/4	M1135286.00	✓	692	M34D17FZ3	TEFC	12B7-34G	7	90	2.6	S, US, 13

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♥ Note listing on inside back flap

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12 Volt - TENV - Right-Angle

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Enclosure	Gearmotor Type & Frame	Ratio to 1	Full Arm. Volts DC	Load Amps. DC	♥Notes
27	134	1/8	M1135285.00	C/A	681	M34D17NZ29	TENV	12B60-34C	61	12	14	S, US
45	94	1/8	M1135284.00	✓	681	M34D17NZ28	TENV	12B39-34C	39	12	15	S, US
58	158	1/4	M1135297.00	C/A	713	M34D17NZ36	TENV	12B30-34F	30	12	24	S, US
90	100	1/4	M1135296.00	C/A	713	M34D17NZ35	TENV	12B19-34F	19	12	24	S, US
115	85	1/4	M1135295.00	✓	713	M34D17NZ34	TENV	12B15-34F	15	12	23	S, US
167	61	1/4	M1135294.00	C/A	713	M34D17NZ33	TENV	12B11-34F	10.6	12	21	S, US
250	46	1/4	M1135293.00	C/A	713	M34D17NZ32	TENV	12B7-34F	7	12	23	S, US

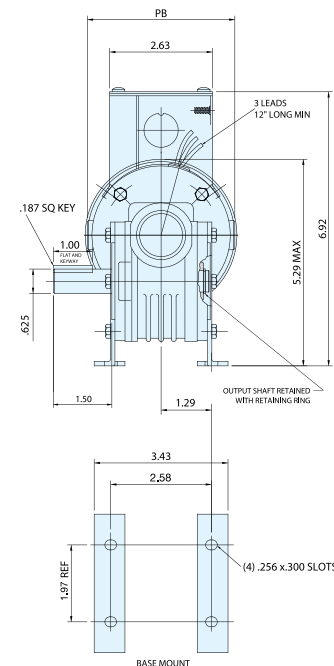
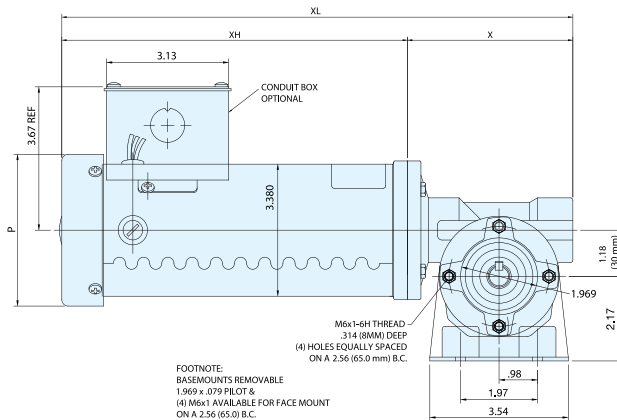
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♥ Note listing on inside back flap

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Notes:

- 1 Conduit box not supplied with the gearmotor. Mounting provisions are provided and can use conduit box kit catalog number M1760007 found on page 179.
- 2 For solid double output shaft, consult factory.



SCR 90 Volt Rated (IN)

P	X	XL	XH	PB
3.38	4.32	11.07	6.75	4.00
3.38	4.32	11.07	6.75	4.00
3.88	4.32	13.16	8.84	3.76
3.88	4.32	13.16	8.84	3.76
3.88	4.32	13.16	8.84	3.76
3.88	4.32	13.16	8.84	3.76
3.88	4.32	13.16	8.84	3.76
3.88	4.32	13.16	8.84	3.76

Low Voltage 12V (IN)

P	X	XL	XH	PB
3.38	4.32	10.57	6.25	4.21
3.38	4.32	10.57	6.25	4.21
3.38	4.32	11.82	7.5	4.21
3.38	4.32	11.82	7.5	4.21
3.38	4.32	11.82	7.5	4.21
3.38	4.32	11.82	7.5	4.21
3.38	4.32	11.82	7.5	4.21
3.38	4.32	11.82	7.5	4.21

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IP55 Washguard Gearmotors - P300 Series - DC

General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Gearbox output shafts are coated with Mirolon 3300 fortified Teflon for superior corrosion resistance
- Frame, endshields, armature and interior components protected by enamel and polyester compounds for resistance to moisture, acids, alkalies and oil
- Precision machined in-line steel gears
- 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
- Gearbox Shafts are hardened steel
- Cast conduit box with threaded conduit holes and Nitrile gaskets keep water out
- Conduit box cover is made from 304 stainless steel
- For any condensation that may accumulate inside the motor, a one-way stainless steel vapor vent is provided
- All hardware is stainless steel
- Painted with white epoxy for superior corrosion resistance and protection
- Machined fits between the endbells and motor frame are sealed with gaskets
- Thru-bolt heads and nuts sealed with fiber washers
- O-rings under each threaded brush cover

Application Notes:

- Extended life in wet, high humidity applications
- Design repels water from entering motor
- Internal components protected against rust and corrosion
- 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
- Overhung load capacities shown are at center of output shaft
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- USDA Approved white epoxy finish
- **Bison/Dayton direct interchange**



90 Volts - TENV - P300 Series

Output RPM	F.L. Torque (Lb.in.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)					♥Notes
												P	PB	X	XL	XH	
5	353	1/20	M1125261.00	✓	825	M31D17VZ5	P303-31	336	90	0.81	565	3.13	3.8	3.54	10.44	8.94	S, US
31	220	1/8	M1125262.00	✓	848	M31D17VZ6	P303-31	58	90	1.6	327	3.13	3.8	3.54	11.94	10.44	S, US
51	130	1/8	M1125263.00	✓	784	M31D17VZ7	P302-31	35	90	1.6	277	3.13	3.8	3.54	11.94	10.44	S, US
94	77	1/8	M1125264.00	✓	784	M31D17VZ8	P302-31	19	90	1.6	236	3.13	3.8	3.54	11.94	10.44	S, US
167	43	1/8	M1125265.00	✓	784	M31D17VZ9	P302-31	11	90	1.6	197	3.13	3.8	3.54	11.94	10.44	S, US

C/A - Check Availability

♥ Note listing on inside back flap

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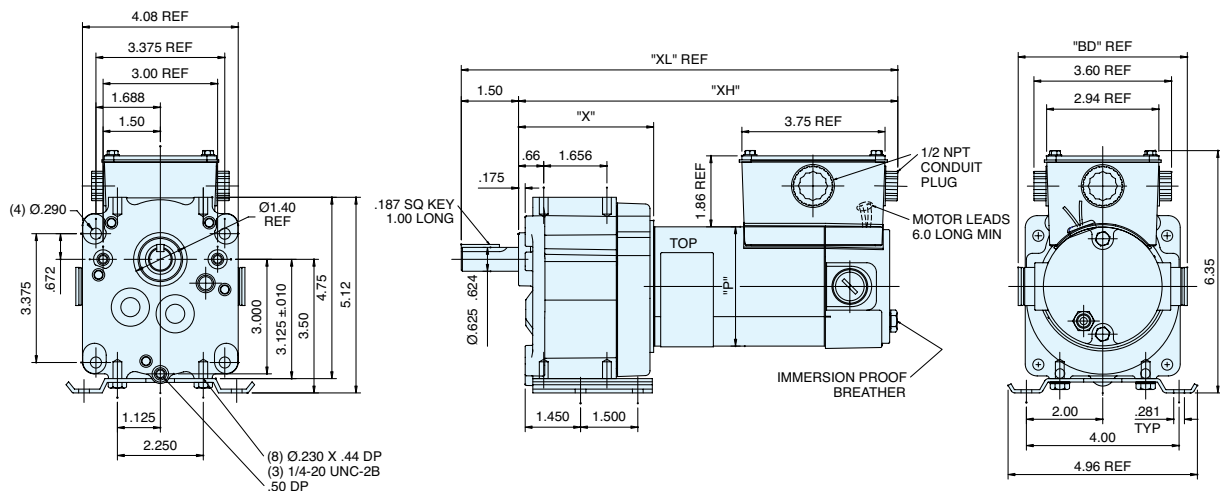
12 Volts - TENV - P300 Series

Output RPM	F.L. Torque (Lb.in.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)					♥Notes
												P	PB	X	XL	XH	
5	353	1/20	M1125266.00	✓	848	M31D17VZ10	P303-31	336	12	6.4	565	3.13	3.8	3.54	10.44	8.94	S, US
31	220	1/8	M1125267.00	✓	869	M31D17VZ11	P303-31	58	12	11	327	3.13	4.43	3.54	11.44	9.94	S, US

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Gearmotors

IP55 Washguard Gearmotors - PE350 - DC

General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Gearbox output shafts are coated with Mirolon 3300 fortified Teflon for superior corrosion resistance
- Frame, endshields, armature and interior components protected by enamel and polyester compounds for resistance to moisture, acids, alkalies and oil
- Precision machined in-line steel gears
- 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
- Gearbox Shafts are hardened steel
- Cast conduit box with threaded conduit holes and Nitrile gaskets keep water out
- Conduit box cover is made from 304 stainless steel
- For any condensation that may accumulate inside the motor, a one-way stainless steel vapor vent is provided
- All hardware is stainless steel
- Painted with white epoxy for superior corrosion resistance and protection
- Machined fits between the endbells and motor frame are sealed with gaskets
- Thru-bolt heads and nuts sealed with fiber washers
- O-rings under each threaded brush cover

Application Notes:

- Extended life in wet, high humidity applications
- Design repels water from entering motor
- Internal components protected against rust and corrosion
- 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
- Overhung load capacities shown are at center of output shaft
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- USDA Approved white epoxy finish
- **Bodine/Baldor direct interchange**



90 Volts - TENV - PE350 Series - Parallel Shaft

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)					♥Notes
												P	PB	X	XL	XH	
14	341	1/8	M1125268.00	✓	854	M31D25VZ1	P353-31	180	90	1.5	465	3.13	3.8	3.45	11.84	9.84	S, US
42	280	1/4	M1125269.00	✓	884	M32D25VZ1	P353-32	58	90	2.6	327	3.25	3.8	3.45	13.84	11.84	S, US
83	155	1/4	M1125270.00	✓	861	M32D25VZ2	P353-32	29	90	2.6	267	3.25	3.8	3.45	13.84	11.84	S, US
250	45	1/4	M1125271.00	✓	861	M32D25VZ3	P352-32	10	90	2.6	201	3.25	3.8	3.45	13.84	11.84	S, US
500	25	1/4	M1125272.00	✓	861	M32D25VZ4	P352-32	5	90	2.6	194	3.25	3.8	3.45	13.84	11.84	S, US

Specifications are subject to change without notice

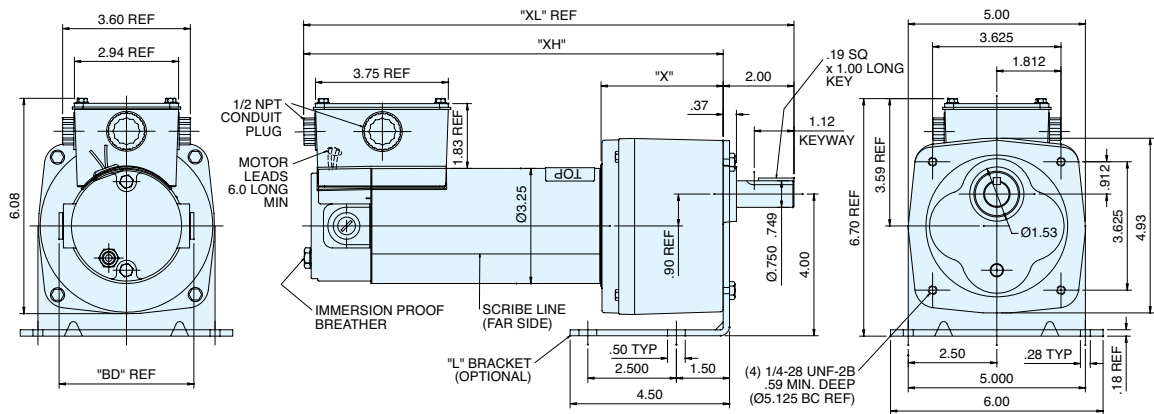
♥ Note listing on inside back flap

12 Volts - TENV - PE350 Series - Parallel Shaft

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)					♥Notes
												P	PB	X	XL	XH	
14	341	1/8	M1125273.00	✓	876	M31D25VZ2	P353-31	180	12	12	465	3.13	4.43	3.45	11.58	9.58	S, US
42	325	1/4	M1125274.00	✓	925	M32D25VZ5	P353-32	58	12	20	327	3.25	4.43	3.45	13.84	11.84	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap



Gearmotors

IP55 Washguard Gearmotors - Right Angle - DC

General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- 303 Stainless Steel gearbox output shaft
- Frame, endshields, armature and interior components protected by enamel and polyester compounds for resistance to moisture, acids, alkalies and oil
- Cast conduit box with threaded conduit holes and Nitrile gaskets keep water out
- Conduit box cover is made from 304 stainless steel
- For any condensation that may accumulate inside the motor, a one-way stainless steel vapor vent is provided
- All hardware is stainless steel
- Painted with white epoxy for superior corrosion resistance and protection
- Machined fits between the endbells and motor frame are sealed with gaskets
- Thru-bolt heads and nuts sealed with fiber washers
- O-rings under each threaded brush cover
- Worm-type right-angle gearing features hardened, steel worm with bronze worm wheel for long life and quiet operation
- Precision machined aluminum gear housing
- Lubrication is permanent with an oil bath
- Gearbox has all ball bearings
- Output shaft is field interchangeable from left hand to right hand style by reassembly
- Double output shaft available as a factory option

Application Notes:

- These right-angle gearmotors have a lubrication breather positioned for horizontal mounting. For other mountings, the breather plug must be reoriented by using a 90 deg 1/8" NPT taper pipe elbow (See drawing). Elbow not available from LEESON
- 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
- Overhung load capacities shown are at center of output shaft
- For additional information, see Bulletin 1830

IP55 Washguard Gearmotors - Right Angle - DC



90 Volt - TENV - Right-Angle

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Overhung Load (lb.)	Dimensions (inches)					♥Notes
												P	PB	X	XL	XH	
42	80	1/8	M1125275.00	✓	854	M31D25VZ3	13F60-31	60	90	2.2	235	3.13	3.8	4.5	10.86	6.36	S, US
250	25	1/8	M1125276.00	✓	854	M31D25VZ4	13F10-31	10	90	2.2	235	3.13	3.8	4.5	10.86	6.36	S, US
62	135	1/4	M1125277.00	✓	861	M32D25VZ6	13F40-32	40	90	3.7	235	3.25	3.8	4.5	12.86	8.36	S, US
125	90	1/4	M1125278.00	✓	861	M32D25VZ7	13F20-32	20	90	3.7	235	3.25	3.8	4.5	12.86	8.36	S, US
250	50	1/4	M1125279.00	✓	861	M32D25VZ8	13F10-32	10	90	3.7	235	3.25	3.8	4.5	12.86	8.36	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

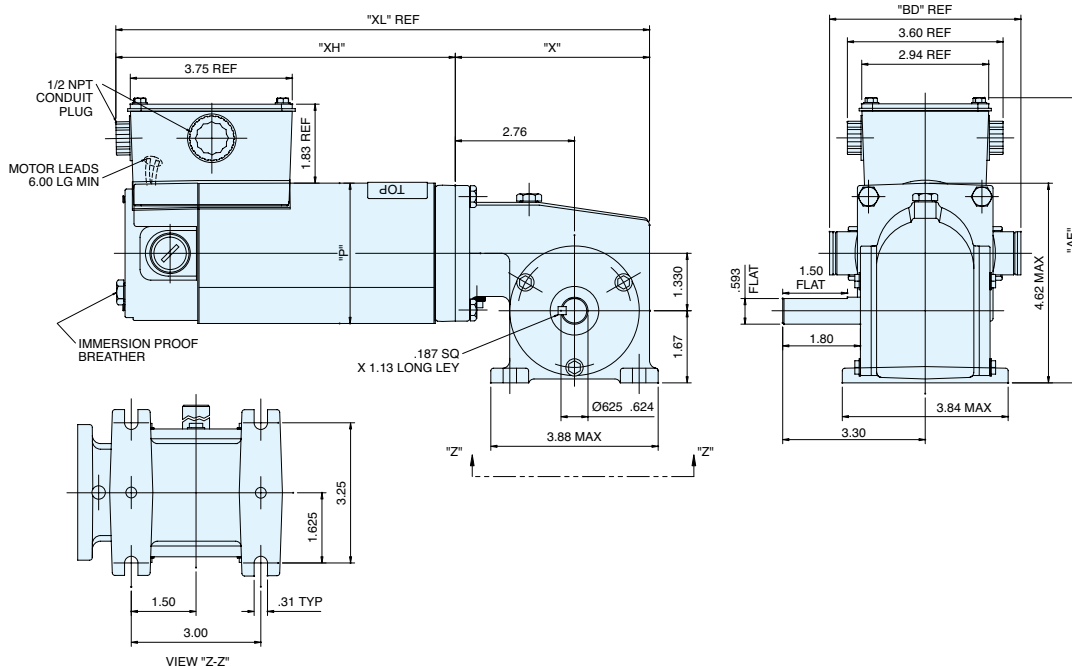
12 Volts - TENV - Right-Angle

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Overhung Load (lb.)	Dimensions (inches)					♥Notes
												P	PB	X	XL	XH	
62	135	1/4	M1125280.00	✓	818	M32D25VZ9	13F40-32	40	12	28	235	3.25	4.43	4.5	12.36	7.86	S, US
125	90	1/4	M1125281.00	✓	818	M32D25VZ10	13F20-32	20	12	28	235	3.25	4.43	4.5	12.36	7.86	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

13 SERIES - DC



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