

Gearmotors

Quick Reference – Stock Sub-FHP Gearmotors

AC Single & Three Phase

DC SCR & Low Voltage



Parallel Shaft
PZ Series
Gearmotors

Single Phase 115V
12-100 In-Lbs
Output Torque
Page 332

BODINE/BISON/DAYTON
DIRECT INTERCHANGE

DC SCR 90 & 180V
10-100 In-Lbs
Output Torque
Low Voltage (12V)
36-100 In-Lbs torque
Page 312



P240 & P300 Series
Gearmotors

Single Phase 115/230V
43-391 In-Lbs
Output Torque
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BISON/DAYTON
DIRECT INTERCHANGE

DC SCR 90 & 180V
27-353 In-Lbs
Output Torque
Low Voltage (12V)
113-353 In-Lbs torque
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OS300 Series
Gearmotors

DC SCR 90V
and
Low Voltage (12V)
Output Torque
130-268 In-Lbs
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PE350 Series
Gearmotors

Single Phase 115/230V
25-341 In-Lbs
Output Torque
Three Phase 230/460V
55-320 In-Lbs
Output Torque
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BODINE
DIRECT
INTERCHANGE

DC SCR 90 & 180V
25-371 In-Lbs
Output Torque
Low Voltage (12V)
155-341 In-Lbs torque
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P1100 Series
Gearmotors

Single Phase 115/230V
70-1105 In-Lbs
Output Torque
Three Phase 230/460V
70-1105 In-Lbs
Output Torque
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BISON/DAYTON
DIRECT INTERCHANGE

DC SCR 90V
105-1112 In-Lbs
Output Torque
Low Voltage (12V)
320-1087 In-Lbs torque
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Right-Angle
Worm Type
10 & 13 Series
Gearmotors

Single Phase 115/230V
14-113 In-Lbs
Output Torque
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BODINE/DAYTON
DIRECT INTERCHANGE

DC SCR 90 & 180V
5-135 In-Lbs
Output Torque
Low Voltage (12V)
25-135 In-Lbs torque
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Bravo Right Angle
Worm Type
12 Series
Gearmotors

DC SCR 90V
and
Low Voltage (12V)
Output Torque
46-134 In-Lbs
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- Gearmotors
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- Tech Information
- Terms / Warnings

Quick Reference – Stock Sub-FHP Washguard® Gearmotors



P300 Series Gearmotors

DC SCR 90V
and
Low Voltage (12V)
Output Torque
44-353 In-Lbs
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PE350 Series Gearmotors

DC SCR 90V
and
Low Voltage (12V)
Output Torque
25-341 In-Lbs
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Right-Angle 13 Series Gearmotors

DC SCR 90V
and
Low Voltage (12V)
Output Torque
50-135 In-Lbs
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P240 Series Gearmotors

AC – Single Phase &
Three Phase
Washdown Duty
60-391 In-Lbs
Output Torque
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**BISON/DAYTON
DIRECT INTERCHANGE**



Right-Angle Worm Type 10 & 13 Series Gearmotors

AC – Single Phase &
Three Phase
Washdown Duty
23-220 In-Lbs
Output Torque
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**BODINE/DAYTON
DIRECT INTERCHANGE**

Stock Sub-FHP Three Phase Inverter Rated Gearmotors



Includes gearmotor series PZ, P240, PE350 and 13 series right-angle

Three Phase 230V
12-391 In-Lbs
Output Torque
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IEC Motors

DC Motors

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Gearmotors

Parallel Shaft - PZ Series - DC

SCR Rated - 10-100 In-Lbs Torque Low Voltage - 36-100 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 and PZ gearmotor mounting bracket available, see page 342

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
- 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
- For additional information, see Bulletin 1830
- **Bodine/Baldor/Boehm/Bison/Dayton direct interchange**

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
4	40	1/40	M1115002.00	✓
	40	1/40	M1125046.00	✓
10	100	1/20	M1115001.00	✓
	100	1/20	M1125047.00	C/A
20	100	1/20	M1115000.00	✓
	100	1/20	M1125048.00	C/A
30	100	1/17	M1125002.00	✓
	100	1/17	M1125037.00	✓
60	56	1/17	M1125003.00	✓
	56	1/17	M1125036.00	✓
100	36	1/17	M1125004.00	✓
	36	1/17	M1125035.00	✓
150	24	1/17	M1125005.00	✓
	24	1/17	M1125034.00	✓
300	10	1/17	M1125006.00	✓
	10	1/17	M1125033.00	✓

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	
985.620	PZ5-30A	450	90	0.5	155	3.00	3.25	9.28	7.72	S, US
985.623	PZ5-30A	450	180	0.2	155	3.00	3.25	9.30	7.74	S, US
985.621	PZ4-30E	180	90	0.5	155	3.00	3.25	9.28	7.72	S, US
985.624	PZ4-30A	180	180	0.3	155	3.00	3.25	9.30	7.74	S, US
985.622	PZ4-30E	90	90	0.5	155	3.00	3.25	9.28	7.72	S, US
985.625	PZ4-30A	90	180	0.3	155	3.00	3.25	9.30	7.74	S, US
985.627	PZ3-30B	60	90	0.8	155	3.00	2.68	8.74	7.18	S, US
985.635	PZ3-30B	60	180	0.4	155	3.00	2.68	8.74	7.18	S, US
985.628	PZ3-30B	30	90	0.8	171	3.00	2.68	8.74	7.18	S, US
985.634	PZ3-30B	30	180	0.4	171	3.00	2.68	8.74	7.18	S, US
985.626	PZ3-30B	18	90	0.8	171	3.00	2.68	8.74	7.18	S, US
985.631	PZ3-30B	18	180	0.4	171	3.00	2.68	8.74	7.18	S, US
985.629	PZ2-30B	12	90	0.8	180	3.00	2.40	8.46	6.90	S, US
985.633	PZ2-30B	12	180	0.4	180	3.00	2.40	8.46	6.90	S, US
985.630	PZ2-30B	6	90	0.8	180	3.00	2.40	8.46	6.90	S, US
985.632	PZ2-30B	6	180	0.4	180	3.00	2.40	8.46	6.90	S, US

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

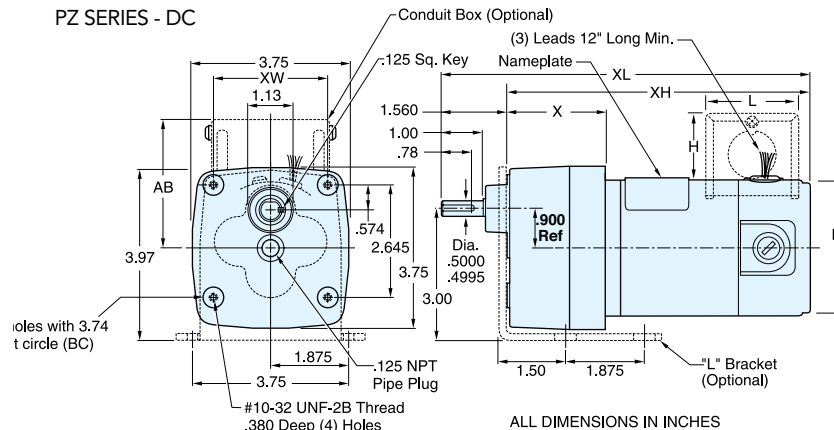
12 Volts - TENV - PZ Series

Output RPM	F.L. Torque (Lb.in.)	Input HP	Catalog Number	Stock
10	100	1/20	M1125213.00	✓
30	100	1/17	M1125214.00	✓
55	56	1/17	M1125215.00	✓

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	
985.653	PZ4-30	180	12	2.7	155	3.00	3.25	9.28	7.72	S, US
985.654	PZ3-30	60	12	5.2	155	3.00	2.68	8.74	7.18	S, US
985.655	PZ3-30	30	12	5.6	171	3.00	2.68	8.74	7.18	S, US

Specifications are subject to change without notice

♥ 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