

# PRODUCT INFORMATION PACKET



Model No: 985.653B  
Catalog No: M1125213.00  
...180:1.10RPM.100LBIN.1/20HP.30....12V..TENV.985.653B  
PZ Series



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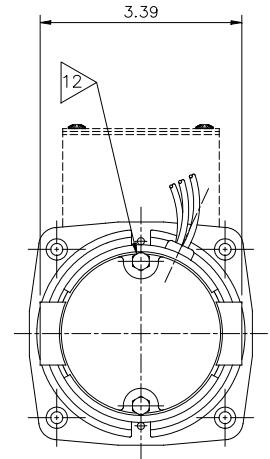
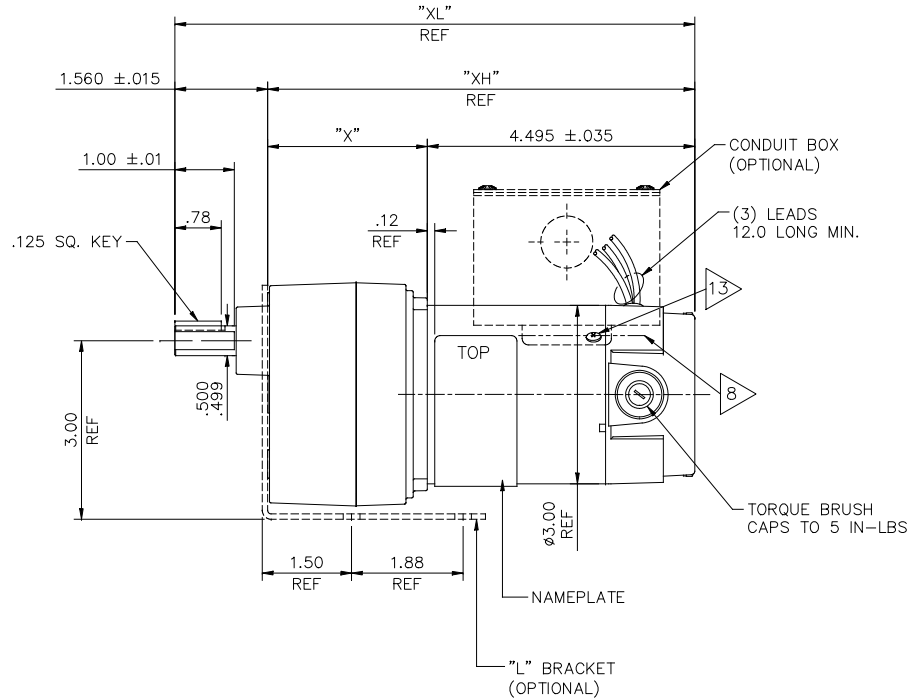
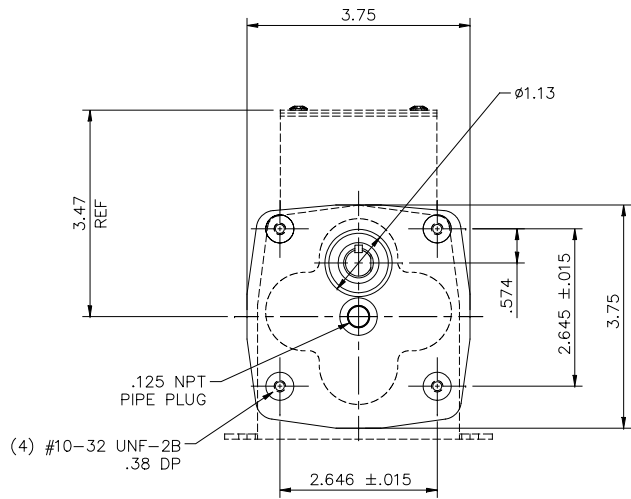
### Nameplate Specifications

Output HP	<b>0.05 Hp</b>	Output KW	<b>0.04 kW</b>
Voltage	<b>12 V</b>	Current	<b>2.7 A</b>
Speed	<b>10 rpm</b>	Service Factor	<b>1</b>
Efficiency	<b>35.6 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Frame	<b>30</b>
Enclosure	<b>Totally Enclosed Non Ventilated</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6000</b>
Opp Drive End Bearing Size	<b>6000</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>N</b>

### Technical Specifications

Rotation	<b>Reversible</b>	Mounting	<b>Special</b>
Shaft Type	<b>Parallel</b>	Overall Length	<b>9.28 in</b>
Frame Length	<b>2.99 in</b>	Shaft Diameter	<b>0.500 in</b>
Shaft Extension	<b>1 in</b>		
Outline Drawing	<b>M1030951-M1125213</b>	Connection Diagram	<b>M112521300FI</b>

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- NOTES:
1. ROTATION: REVERSIBLE
  2. HIPOT: 1250 VAC FOR ONE SECOND, BOTH LEADS TO CASE
  3. LEADS: 14 GA
  4. BEARINGS: BALL BEARINGS BOTH ENDS
  5. CASTINGS: GEARBOX—DIE CAST ALUMINUM, REAR ENDCAP—DIE CAST ZINC
  6. MAGNET TUBE: ZINC PLATED STEEL
  7. INSULATION: CLASS F 155°C
  8. NAME PLATE MUST BE IN LINE WITH HOLE WITHIN .06"
  9. TEST AND LUBRICATE GEARBOX PER 890-178
  10. PAINT PER DRAWING # PP985-6XX
  11. PACKAGE FOR SHIPMENT PER 890-179
12. TORQUE THROBOLTS TO 20-25 IN-LB
13. INSTALL CONDUIT BOX SCREWS AT FINAL ASSEMBLY BEFORE PAINTING

MODEL No.	VOLTAGE	CATALOG No.	TYPE	RATIO	TORQUE	HP	RPM	"XL" inch	"XH" inch	"X" inch
985.653	12VDC	M1125213.00	DN	180:1	100 IN.LB.	1/20	10	9.28	7.72	3.25
985.654	12VDC	M1125214.00	DN	60:1	100 IN.LB.	1/17	30	8.74	7.18	2.68
985.655	12VDC	M1125215.00	DN	30:1	56 IN.LB.	1/17	55	8.74	7.18	2.68
985.656	12VDC	M1125216.00	DN	18:1	36 IN.LB.	1/17	90	8.74	7.18	2.68

ITEM No.	ITEM REV
-00	001

		TOLERANCES UNLESS SPECIFIED			ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN	KLS 11/24/04		
		DEC.	INCHES			CHK	IPG 11/24/04		
		.X	±.1	TITLE		SCALE	1=2		
D	REMOVED ±1.00 FROM LEAD LENGTH, ECO-0128114	IPG	7/25/17	30 FRAME DC- PZ GEARBOX		REF	M1125213-160L		
00	RELEASED PER ECR 86540	KLS	11/24/04	IPG	.XXX ±.005	FMF	M1125216.00		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH	PREV		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	CAD FILE	M1030951	SIZE	DRAWING NO.	REV.
				DIST			B	M1030951	D

1. HIPOT @ 1250 VOLTS FOR ONE SECOND, RED & BLACK LEADS TO CASE
2. RED LEAD POS (+)
  - BLACK LEAD NEG (-)
3. RUN IN @ 12 VDC, 1.36 MAX AMPS, NO LOAD
4. TORQUE THRU BOLTS TO 20-25 LB. IN.
5. ALL MOTORS TO BE RUN-IN AT FREE-LOAD FOR 30 MINS. [REVERSING DIRECTION AT 15 MINUTES] AT 12±1 VDC.

CCWSE (MOTOR ONLY-SHAFT OUTPUT END)


### CHECKS TO OUTLINE DRAWING

- A. LEAD LENGTH & STRIP
- B. SHAFT ROTATION (GEARBOX)
- C. LABEL CORRECT, POSITION (CRITICAL) & DATE CODE
- D. -
- E. PAINT - SMOOTH. COMPLETE & NO RUNS
- F. CONDUIT BOX SCREWS
- G. GEARBOX ID
- H. GEARBOX OIL PLUG TORQUE (24 LB. IN.)

### PERFORMANCE SPECIFICATIONS

TORQUE	SPEED	MAX AMPS
50 LB. IN.	10-12	2.24
100 LB. IN.	9-11	2.95

UL NUMBER: 985.653

				TOLERANCES UNLESS SPECIFIED			ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN	AD 1/26/01	
				DEC.	INCHES			CHK		
03	REMOVED KEY & RUBBER BAND/"D"OUT.CHKS. ECR83964	RPB 12/17/03	BC	.X	±.1	TITLE FINAL INSPECTION 30 FRAME DC - PZ GEARBOX	AND DRIVES	APPD		
02	CHG'D NOTE 5	JKM 11/8/02		.XX	±.01			SCALE	1=1	
01	1.36 W .84; 2.24 W 2.45; 2.95 W 4.89	AD 3/27/01		.XXX	±.005			REF		
00	RELEASE	AD 1/26/01		.XXXX	±.0005			FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	MAT'L.	FINISH	PREV		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP		CAD FILE	M112521300FI	SIZE	DRAWING NO.	REV.
				DIST				A	M1125213.00FI	03