PRODUCT INFORMATION PACKET

Model No: M1125214.00
Catalog No: M1125214.00
Parallel Shaft Gearmotor, 0.06 HP, 12 V, 30 RPM, 30 Frame, TENV

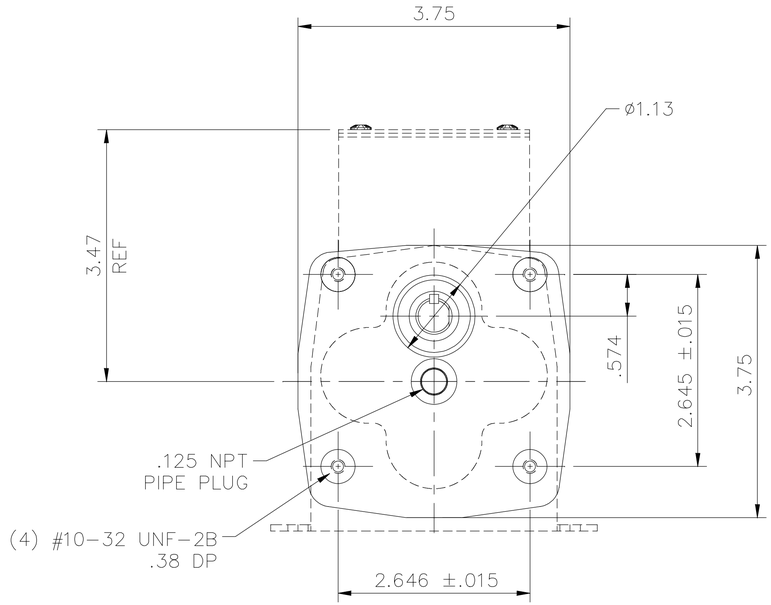
Nameplate Specifications

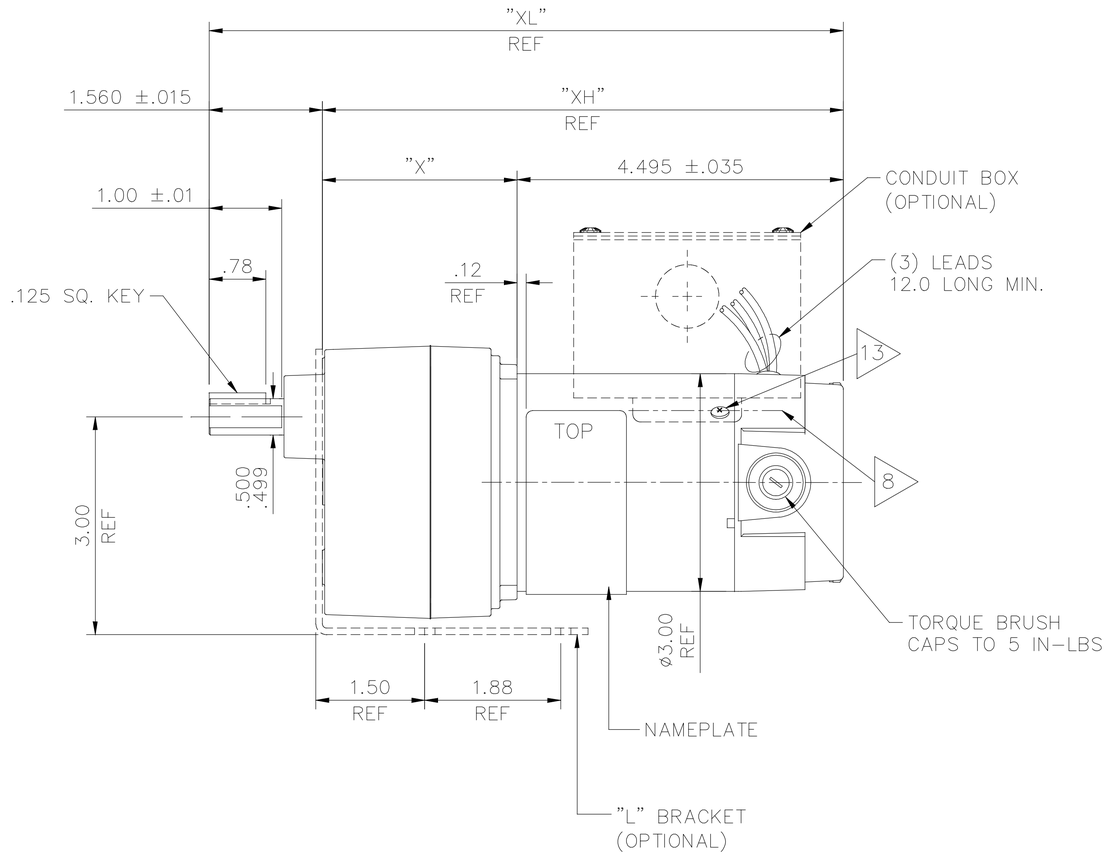
Output HP	**0.06 Hp**	Output KW	**0.04 kW**
Voltage	**12 V**	Speed	**30 rpm**
Service Factor	**1.0**	Frame	**30**
Enclosure	**Totally Enclosed Non Ventilated**	Thermal Protection	**No Protection**
Efficiency	**59.4 %**	Ambient Temperature	**40 °C**
Current	**5.2 A**	Duty	**Continuous**
Insulation Class	**F**	Drive End Bearing Size	**6000**
Opp Drive End Bearing Size	**6000**	UL	**Recognized**
CSA	**Y**	CE	**N**

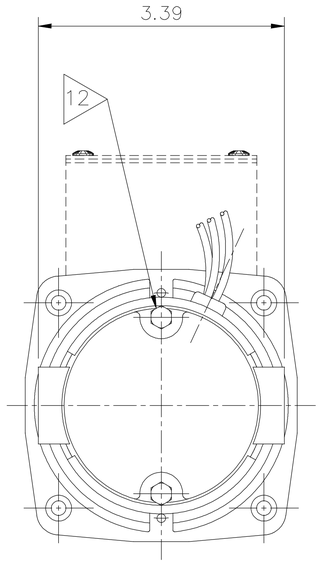
Technical Specifications

Rotation	**Reversible**	Mounting	**Special**
Shaft Type	**Parallel**	Overall Length	**8.74 in**
Frame Length	**2.99 in**	Shaft Diameter	**0.500 in**
Shaft Extension	**1 in**	Torque	**100 LB-IN**
Outline Drawing	**M1030951-M1125214**	Connection Drawing	**M112521400FI**

M1030951







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 THRUBOLTS 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

NO.	REVISION	BY & DATE	CHK
D	REMOVED ±1.00 FROM LEAD LENGTH, ECO–0128114	IPG 7/25/17	IPG
00	RELEASED PER ECR 86540	KLS 11/24/04	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

DRAWN	KLS 11/24/04
CHK	IPG 11/24/04
APPD	
SCALE	1=2
REF	M1125213–160L
FMF	M1125216.00
PREV	

TITLE: OUTLINE 30 FRAME DC– PZ GEARBOX
MAT'L.
FINISH
RFP
DIST
CAD FILE M1030951

SIZE	DRAWING NO.	REV.
B	M1030951	D

1. HIPOT @ 1250 VOLTS FOR ONE SECOND, RED & BLACK LEADS TO CASE
2. RED LEAD POS (+)
   BLACK LEAD NEG (−) } CCWSE (MOTOR ONLY−SHAFT OUTPUT END)
3. RUN IN @ 12 VDC, 1.95 MAX AMPS, NO LOAD
4. TORQUE THRUBOLTS 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.

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
0 LB. IN.	30−36	1.95
50 LB. IN.	28−34	3.85
100 LB. IN.	26−32	5.75

UL NUMBER: 985.654

NO.	REVISION	BY & DATE	CHK
04	NOTE 3: 1.95 WAS 1.48. ADDED PERF. SPECS. AT	SJB 6/16/2010	
	0 LB−IN, 28−34 WAS 29−32, 3.85 WAS 3.62, 26−32		
	WAS 27−30, 5.75 WAS 5.70.		
03	REMOVED KEY & RUBBER BAND/"D"OUT.CHKS. ECR83964	RPB 12/17/03	BC
02	CHG'D NOTE 5	JKM 11/8/02	
01	1.48 W .74;29−32 WAS 30−33;3.62 W 3.4;5.70 W 5.8	AD 3/27/01	

TOLERANCES UNLESS SPECIFIED	
DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE: FINAL INSPECTION 30 FRAME DC − PZ GEARBOX

MAT'L.

FINISH

CAD FILE: M112521400FI

RFP

DIST

DRAWN	AD 1/29/01
CHK	
APPD	
SCALE	1=1
REF	
FMF	
PREV	

SIZE	DRAWING NO.	REV.
A	M1125214.00FI	04

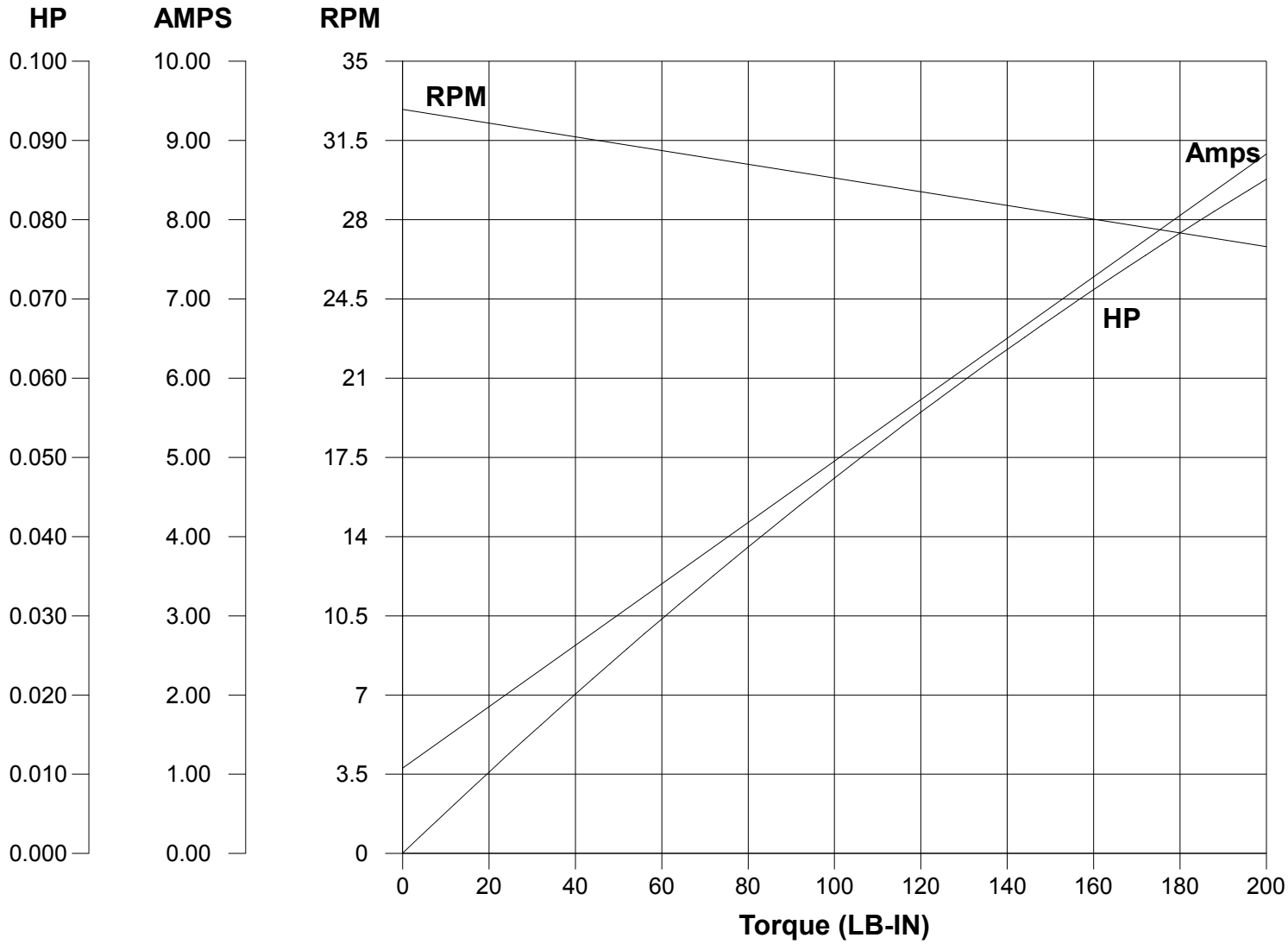
6/16/2010 9:30:07 AM

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE
FOR
DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. 985.654 **Catalog No.** M1125214.00

HP	0.059	**RPM**	30	**DC Volts**	12.0	**N.P. FLA**	5.20
F.F.	1.00	**Encl**	TENV	**Type**	DN	**S.F.**	1.00
Max. Amb.	40.0 Deg C	**Insul.**	F	**Frame**	30	**Duty**	CONT



Ra	0.2758	Ohms	**Kt**	0.4874	LB-IN/AMP
La	1.000	mHenrys	**Imax**	61.4	AMPS Allowed
Ja	3.864	OZ-IN^2	**FL Torque**	100.0	LB-IN
Ke	5.767	V/KRPM	**FL EFF**	59.40	%

Winding W- MD302135 **Prepared by** _____ **Date** 06-23-2014

Brush 6H2