# PRODUCT INFORMATION PACKET

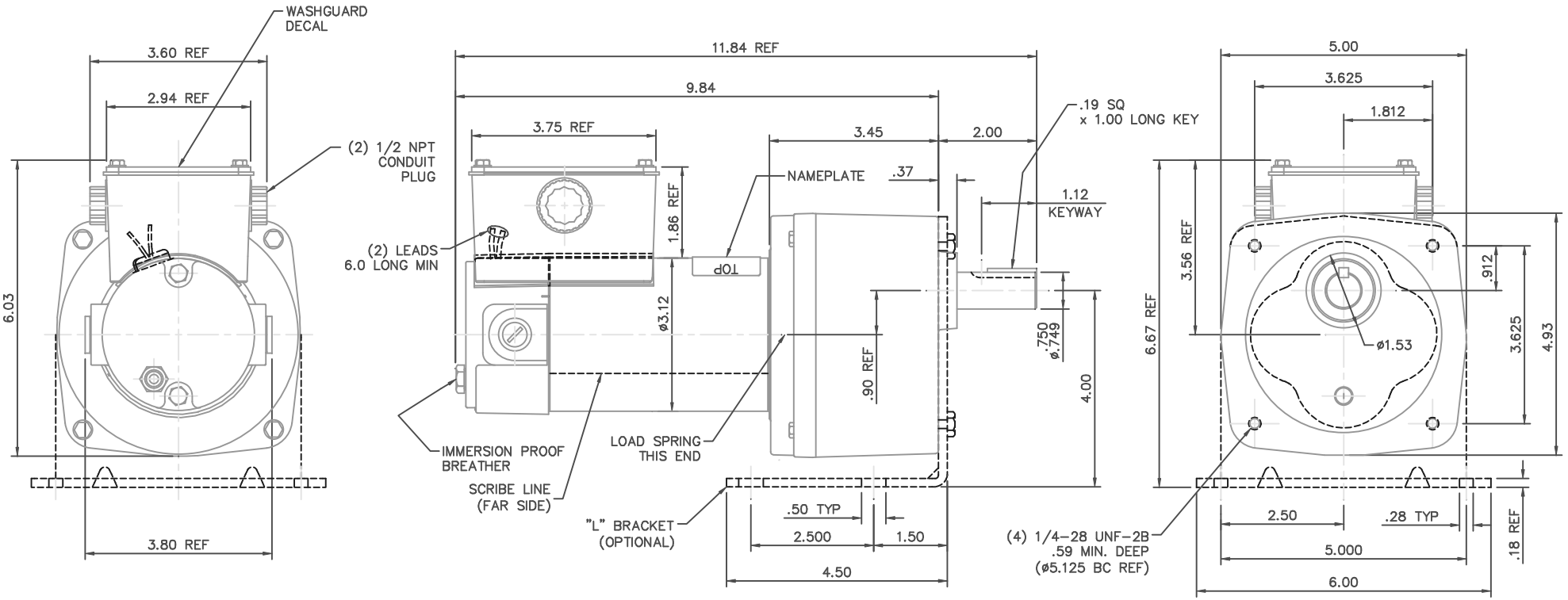
Model No: M1125268.00
Catalog No: M1125268.00
Parallel Shaft Gearmotor, 0.13 HP, 90 V, 14 RPM, 31 Frame, TENV

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Output HP | **0.13 Hp** | Output KW | **0.10 kW** |
| Voltage | **90 V** | Current | **1.5 A** |
| Speed | **14 rpm** | Service Factor | **1** |
| Efficiency | **46.2 %** | Duty | **Continuous** |
| Insulation Class | **F** | Frame | **31** |
| Enclosure | **Totally Enclosed Non Ventilated** | Thermal Protection | **No Protection** |
| Ambient Temperature | **40 °C** | Drive End Bearing Size | **6201** |
| Opp Drive End Bearing Size | **6201** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |

## Technical Specifications

| | | | |
|---|---|---|---|
| Rotation | **Reversible** | Mounting | **Special** |
| Shaft Type | **Parallel** | Overall Length | **11.84 in** |
| Frame Length | **4.44 in** | Shaft Diameter | **0.750 in** |
| Shaft Extension | **1.63 in** | Torque | **341 LB-IN** |
| Connection Drawing | **M100530901** | Outline Drawing | **M1030990-M1125268** |




NOTES:
1) GASKETS BETWEEN FRAME AND ENDBELL/GEARBOX, CONDUIT BOX AND FRAME, AND CONDUIT BOX COVER AND CONDUIT BOX.

| CATALOG NUMBER | OUTPUT RPM | FULL LOAD TORQUE LB.-IN. | INPUT HP | OVERHUNG LOAD LBS. | RATIO TO 1 |
|---|---|---|---|---|---|
| M1125268.00 | 14 | 341 | 1/8 | 465 | 180 |

| NO. | REVISION | BY & DATE | CHK |
|---|---|---|---|
| 01 | 1/2 NPT CONDUIT PLUG QTY. WAS 3. ISAAC 08-3457 | RPB 7/30/08 | BC |
| 00 | RELEASED: REF. PR040127-RD1 | IPG 5/13/05 | SAD |

TOLERANCES UNLESS SPECIFIED: DEC. INCHES; .X ±.1; .XX ±.03; .XXX ±.005; .XXXX ±.0005; ANG ±1/2°

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE: OUTLINE - 31 FRAME DC 90V - PE350 GEARMOTOR

MAT'L.

FINISH

CAD FILE M1030990

RFP

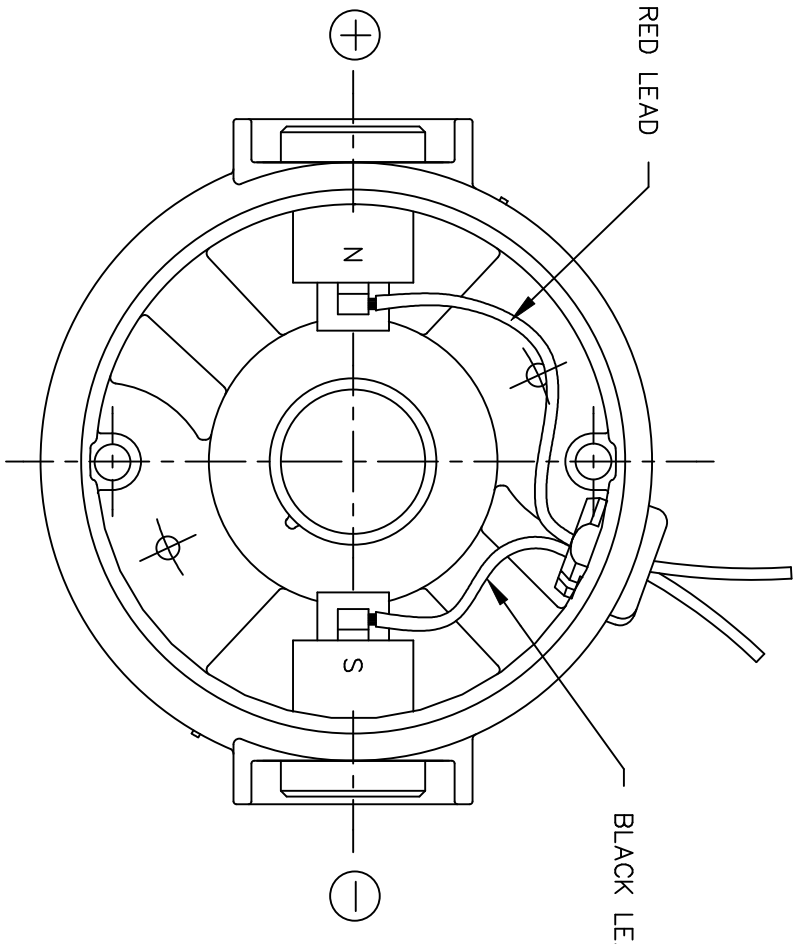
DIST

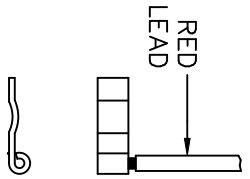
| | |
|---|---|
| DRAWN | IPG 5/13/05 |
| CHK | SAD 5/13/05 |
| APPD | |
| SCALE | 1=2 |
| REF | PR040127-RD1 |
| FMF | M1125268.00 |
| PREV | |

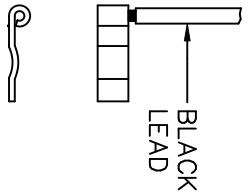
SIZE B | DRAWING NO. M1030990.00 | REV. 01

M1005309.01

EXTERNAL CONNECTIONS FOR CW ROTATION
VIEWING LEAD END OF MOTOR WITH RED LEAD
POSITIVE (+) AND BLACK LEAD NEGATIVE (–)
FOR CCW ROTATION REVERSE POLARITY




D.C. MOTORS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | TOLERANCES UNLESS SPECIFIED | | LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES | DRAWN | IPG 5/2/05 |
| | | | | DEC. | INCHES | | CHK | SAD 5/2/05 |
| | | | | .X | ±.1 | | APPD | |
| | | | | .XX | ±.01 | TITLE CONNECTION DIAGRAM | SCALE | 1=1 |
| | | | | .XXX | ±.005 | | REF | M1005308.01 |
| 00 | RELEASED: REF. M1005308.01 | IPG 5/2/05 | SAD | .XXXX | ±.0005 | MAT'L. | FMF | M1125275.00 |
| NO. | REVISION | BY & DATE | CHK | ANG | ±1/2° | FINISH | PREV | |



| RFP | CAD FILE M100530901 | SIZE | DRAWING NO. | REV. |
|---|---|---|---|---|
| DIST | | A | M1005309.01 | 00 |

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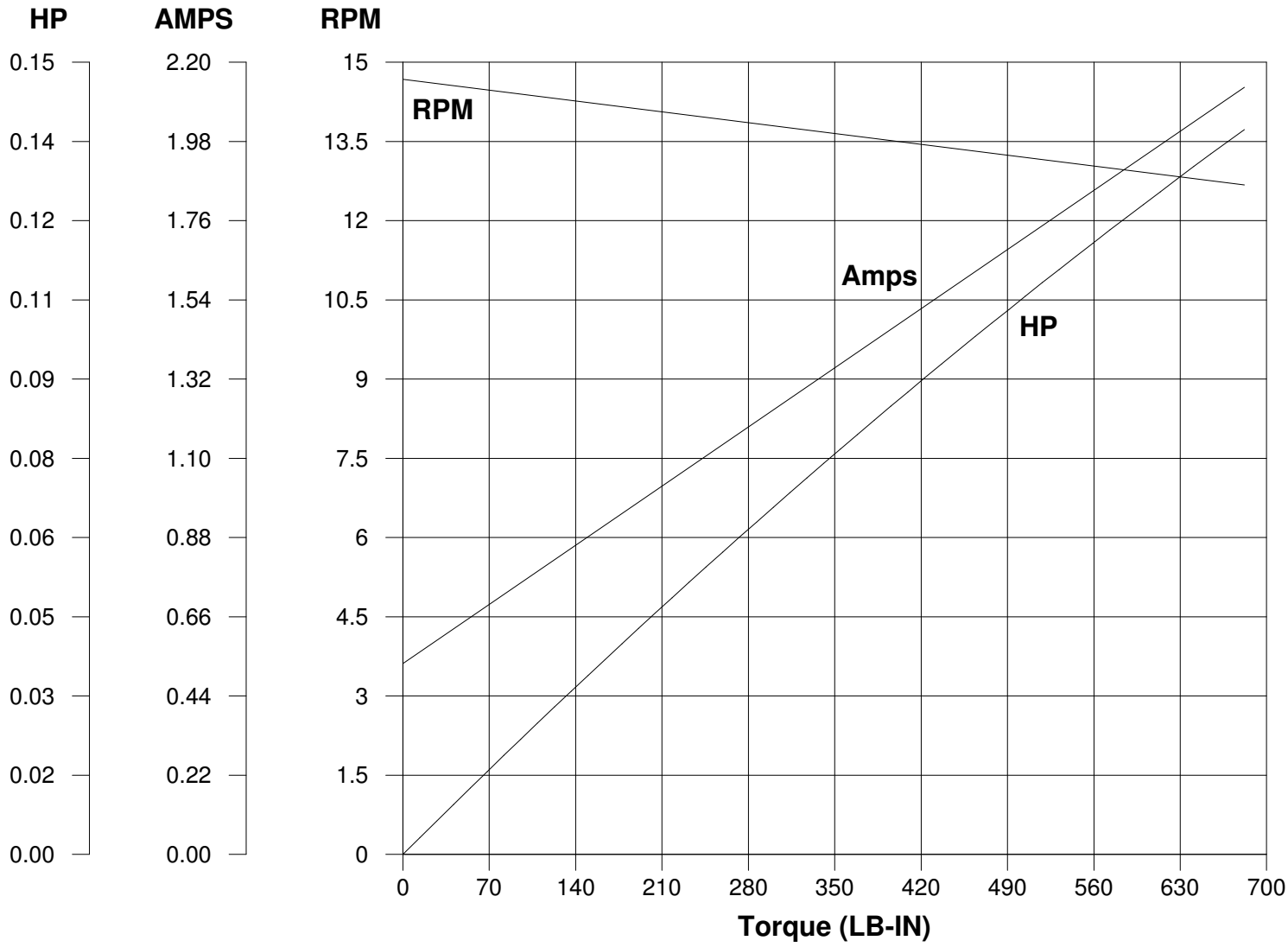
# LEESON ELECTRIC CORPORATION

## TYPICAL PERFORMANCE CURVE
## FOR
## DIRECT CURRENT PERMANENT MAGNET MOTOR

**Model No.** CM31D25VZ1 **Catalog No.** M1125268.00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **HP** | 0.125 | **RPM** | 14 | **DC Volts** | 90.0 | **N.P. FLA** | 1.50 |
| **F.F.** | 1.38 | **Encl** | TENV | **Type** | DN | **S.F.** | 1.00 |
| **Max. Amb.** | 40.0 Deg C | **Insul.** | F | **Frame** | 31 | **Duty** | CONT |




| | | | | | |
|---|---|---|---|---|---|
| **Ra** | 6.3900 | Ohms | **Kt** | 2.756 | LB-IN/AMP |
| **La** | 26.87 | mHenrys | **Imax** | 17.9 | AMPS Allowed |
| **Ja** | 5.146 | OZ-IN^2 | **FL Torque** | 341.0 | LB-IN |
| **Ke** | 32.61 | V/KRPM | **FL EFF** | 46.20 | % |

**Winding W-** MD312308-1 **Prepared by** V. Boehlen **Date** 12-15-2005

Brush K174