

# PRODUCT INFORMATION PACKET



Model No: M1125279.00  
Catalog No: M1125279.00  
White Duck™ Right Angle Gearmotor, 0.25 HP, 90 V, 250 RPM, 32 Frame



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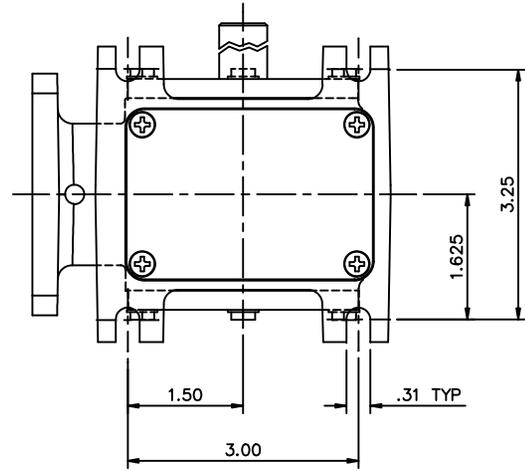
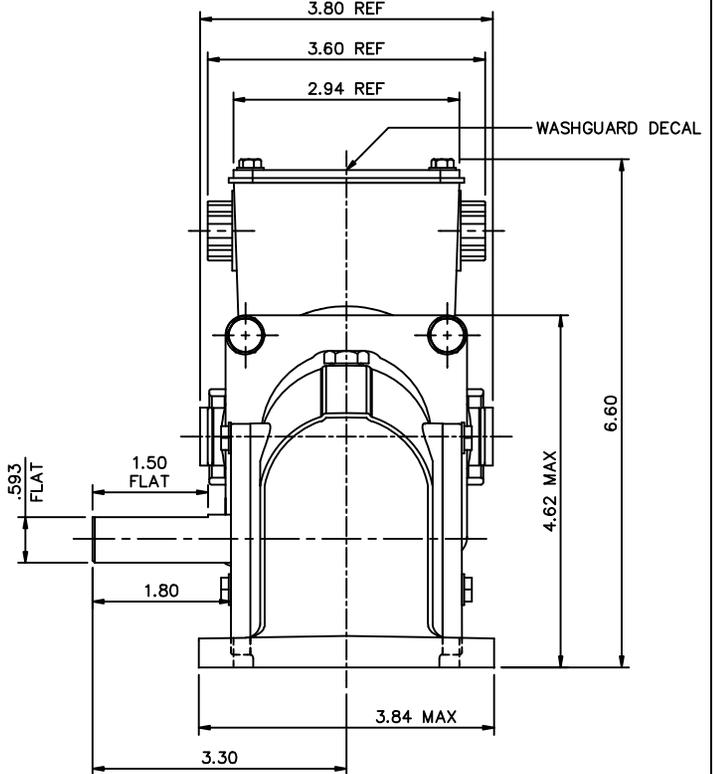
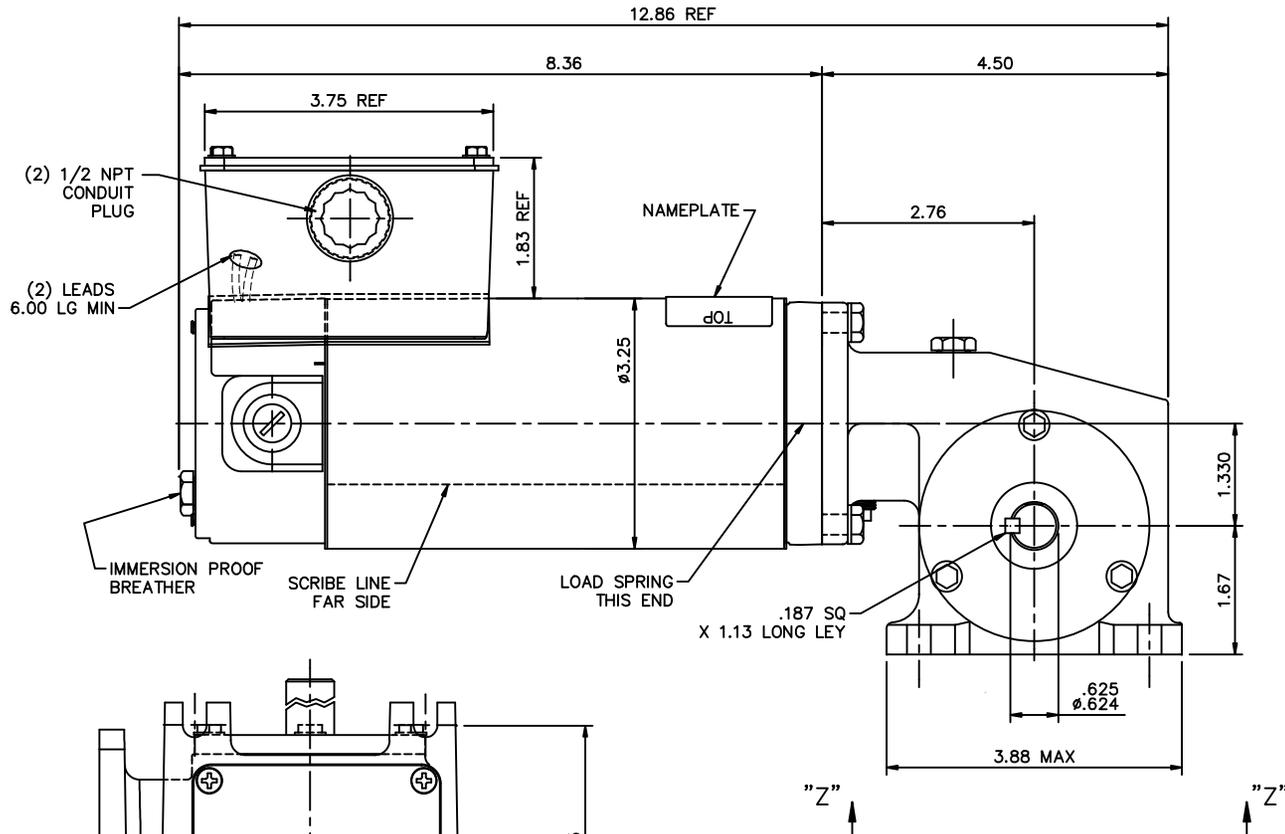
**Nameplate Specifications**

|                        |               |                            |         |
|------------------------|---------------|----------------------------|---------|
| Output HP              | 0.25 Hp       | Output KW                  | 0.19 kW |
| Voltage                | 90 V          | Speed                      | 250 rpm |
| Service Factor         | 1             | Frame                      | 32      |
| Thermal Protection     | No Protection | Efficiency                 | 45.1 %  |
| Ambient Temperature    | 40 °C         | Current                    | 3.7 A   |
| Duty                   | Continuous    | Insulation Class           | F       |
| 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         | Right Angle | Overall Length  | 12.86 in          |
| Frame Length       | 5.94 in     | Shaft Diameter  | 0.625 in          |
| Shaft Extension    | 1.8 in      | Torque          | 50 LB-IN          |
| Connection Drawing | M100530801  | Outline Drawing | M1030980-M1125279 |

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VIEW "Z-Z"

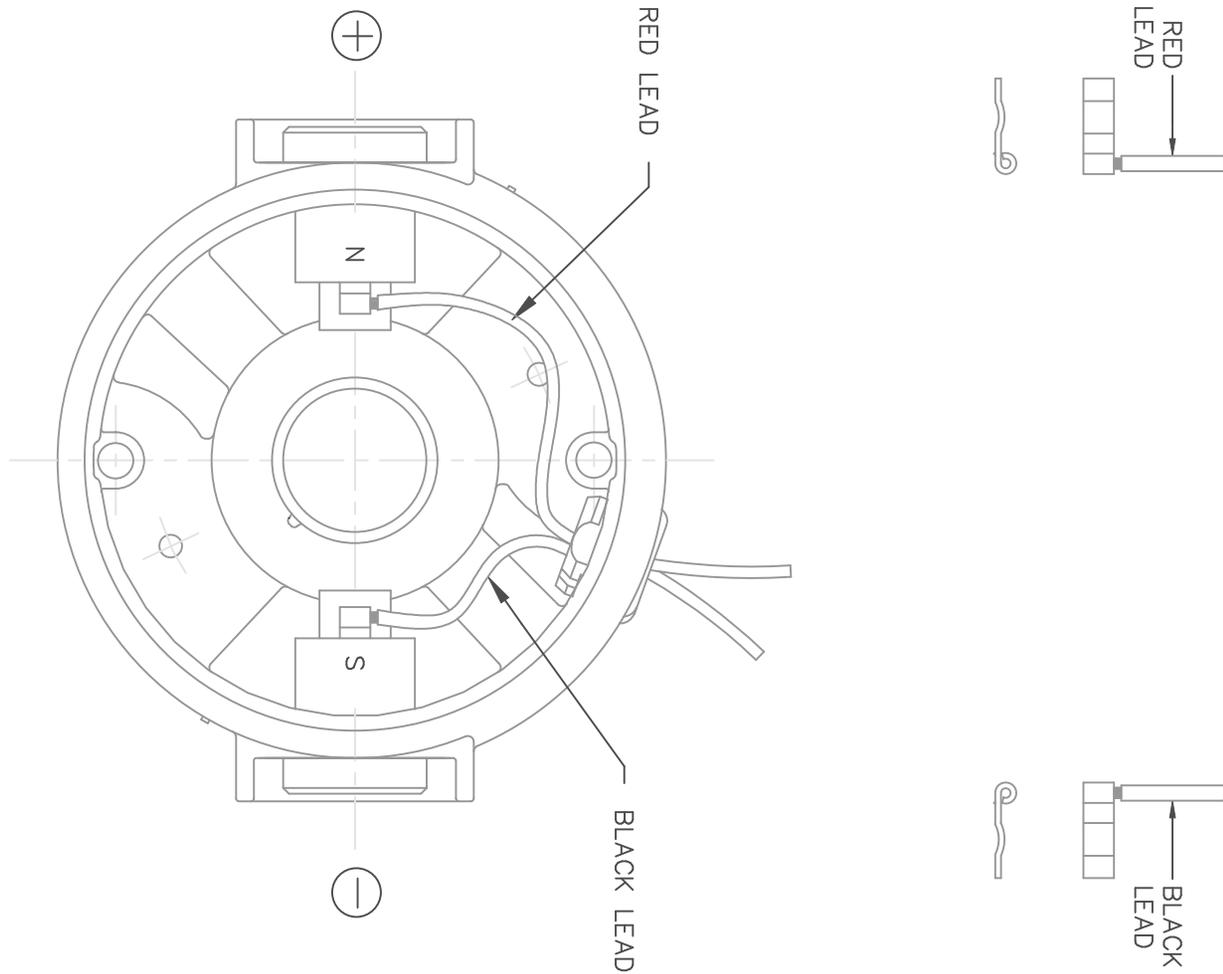
NOTES:

- 1) GASKETS BETWEEN FRAME AND ENDBELLS, CONDUIT BOX AND FRAME, AND CONDUIT BOX COVER AND CONDUIT BOX.

| CATALOG NUMBER | SPEED RANGE RPM | FULL LOAD TORQUE LB.-IN. | INPUT HP | OVERHUNG LOAD LBS. | RATIO TO 1 |
|----------------|-----------------|--------------------------|----------|--------------------|------------|
| M1125277.00    | 62-1            | 135                      | 1/4      | 235                | 40         |
| M1125278.00    | 125-2.1         | 90                       | 1/4      | 235                | 20         |
| M1125279.00    | 250-4           | 50                       | 1/4      | 235                | 10         |

|                                                                                                                                                                                                                                  |                                                |             |     | TOLERANCES UNLESS SPECIFIED |      | LEESON | ELECTRIC MOTORS GEARMOTORS AND DRIVES               | DRAWN IPG 4/29/05 |              |             |             |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------|-----|-----------------------------|------|--------|-----------------------------------------------------|-------------------|--------------|-------------|-------------|------|
| NO.                                                                                                                                                                                                                              | REVISION                                       | BY & DATE   | CHK | ANG                         | DEC. |        |                                                     | INCHES            | CHK          | SAD 4/29/05 |             |      |
| 03                                                                                                                                                                                                                               | 1/2 NPT CONDUIT PLUG QTY. WAS 3. ISAAC 08-3457 | RPB 7/30/08 | BC  | .X                          |      | ±.1    | TITLE OUTLINE - 32 FRAME DC 13 SERIES 90V GEARMOTOR | APPD              |              |             |             |      |
| 02                                                                                                                                                                                                                               | CHANGED TO DIE CAST GEARBOX PER ECN 06-3023.   | RPB 7/11/06 | BC  | .XX                         |      | ±.03   |                                                     | SCALE             | 5=8          |             |             |      |
| 01                                                                                                                                                                                                                               | ADDED ITEMS M1125278.00 & M1125279.00 TO TABLE | IPG 4/29/05 | SAD | .XXX                        |      | ±.005  |                                                     | REF               | PRO40129-RD1 |             |             |      |
| 00                                                                                                                                                                                                                               | RELEASED: REF. PRO40129-RD1                    | IPG 4/29/05 | SAD | .XXXX                       |      | ±.0005 |                                                     | FMF               | M1125277.00  |             |             |      |
|                                                                                                                                                                                                                                  |                                                |             | CHK | ANG                         |      | ±1/2"  |                                                     | 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          | M1030980     | SIZE        | DRAWING NO. | REV. |
|                                                                                                                                                                                                                                  |                                                |             |     |                             |      |        | DIST                                                |                   |              | B           | M1030980    | 03   |

D.C. MOTORS



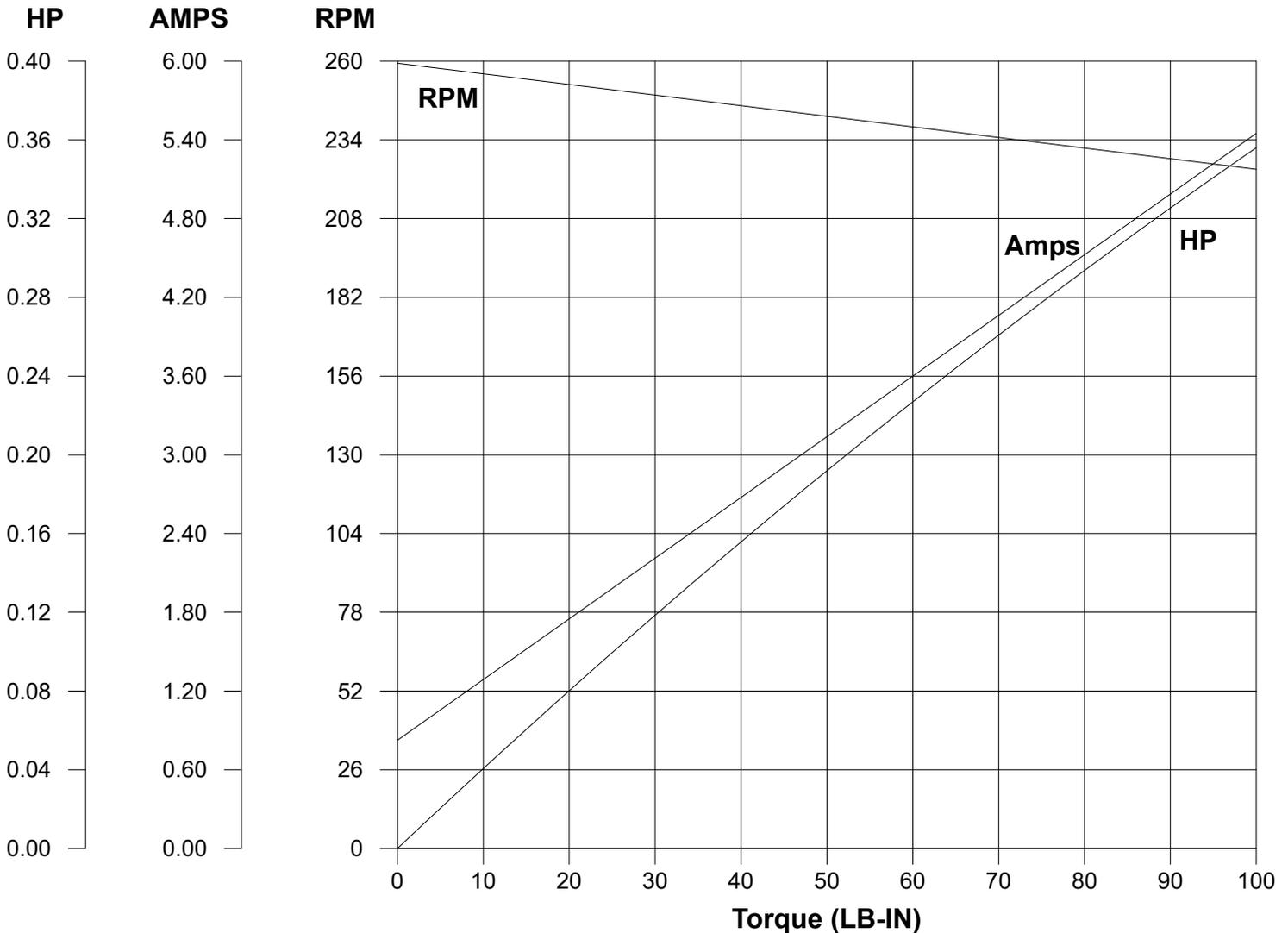
EXTERNAL CONNECTIONS FOR CW ROTATION  
 VIEWING LEAD END OF MOTOR WITH RED LEAD  
 POSITIVE (+) AND BLACK LEAD NEGATIVE (-)  
 FOR CCW ROTATION REVERSE POLARITY

|                                                                                                                                                                                                                                        |                             |           |        |                             |            |                                                                                                                                   |                                                                                                        |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|--------|-----------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------|
|                                                                                                                                                                                                                                        |                             |           |        | TOLERANCES UNLESS SPECIFIED |            |  ELECTRIC MOTORS<br>GEARMOTORS<br>AND DRIVES | DRAWN IPG 4/8/05<br>CHK SAD 4/8/05<br>APPD<br>SCALE 1=1<br>REF PR040117-RD1<br>FMF M1120085.00<br>PREV |                    |
|                                                                                                                                                                                                                                        |                             |           |        | DEC.                        | INCHES     |                                                                                                                                   | TITLE                                                                                                  | CONNECTION DIAGRAM |
|                                                                                                                                                                                                                                        |                             |           |        | .X                          | ±.1        |                                                                                                                                   |                                                                                                        |                    |
|                                                                                                                                                                                                                                        |                             |           |        | .XX                         | ±.01       |                                                                                                                                   |                                                                                                        |                    |
|                                                                                                                                                                                                                                        |                             |           |        | .XXX                        | ±.005      |                                                                                                                                   |                                                                                                        |                    |
| 00                                                                                                                                                                                                                                     | RELEASED: REF. PR040117-RD1 | IPG       | 4/8/05 | SAD                         | .XXXX      | ±.0005                                                                                                                            | MAT'L.                                                                                                 |                    |
| NO.                                                                                                                                                                                                                                    | REVISION                    | BY & DATE |        | CHK                         | ANG        | ±1/2'                                                                                                                             | FINISH                                                                                                 |                    |
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|                                                                                                                                                                                                                                        |                             |           |        | DIST                        | M100530801 |                                                                                                                                   | DRAWING NO.                                                                                            |                    |
|                                                                                                                                                                                                                                        |                             |           |        |                             |            | A                                                                                                                                 | M1005308.01                                                                                            |                    |
|                                                                                                                                                                                                                                        |                             |           |        |                             |            |                                                                                                                                   | REV. 00                                                                                                |                    |

# LEESON ELECTRIC CORPORATION

## TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

|                             |                                |                      |
|-----------------------------|--------------------------------|----------------------|
| Model No. <u>CM32D25VZ8</u> | Catalog No. <u>M1125279.00</u> |                      |
| HP <u>0.250</u>             | RPM <u>250</u>                 | DC Volts <u>90.0</u> |
| F.F. <u>1.38</u>            | Encl <u>TENV</u>               | Type <u>DN</u>       |
| Max. Amb. <u>40.0 Deg C</u> | Insul. <u>F</u>                | Frame <u>32</u>      |
|                             |                                | N.P. FLA <u>3.70</u> |
|                             |                                | S.F. <u>1.00</u>     |
|                             |                                | Duty <u>Cont.</u>    |



**Ra** 1.9900 Ohms  
**La** 12.46 mHenrys  
**Ja** 1.883 KG-CM<sup>2</sup>  
**Ke** 33.89 V/KRPM

**Kt** 2.864 LB-IN/AMP  
**Imax** 37.3 AMPS Allowed  
**FL Torque** 50.00 LB-IN  
**FL EFF** 45.10 %

**Winding W-** MD3227-1H      **Prepared by** V. Boehlen      **Date** 09-03-2019