

# PRODUCT INFORMATION PACKET

Model No: M1125264.00

Catalog No: M1125264.00

Parallel Shaft Gearmotor, 0.13 HP, 90 V, 94 RPM, 31 Frame, TENV



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**Nameplate Specifications**

|                            |  |                        |                      |
|----------------------------|--|------------------------|----------------------|
| Output HP                  | <b>0.13 Hp</b>                         | Output KW              | <b>0.10 kW</b>       |
| Voltage                    | <b>90 V</b>                            | Current                | <b>1.6 A</b>         |
| Speed                      | <b>94 rpm</b>                          | Service Factor         | <b>1</b>             |
| Efficiency                 | <b>60.2 %</b>                          | Duty                   | <b>Continuous</b>    |
| Insulation Class           | <b>F</b>                               | Frame                  | <b>31</b>            |
| Enclosure                  | <b>Totally Enclosed Non Ventilated</b> | Thermal Protection     | <b>No Protection</b> |
| Ambient Temperature        | <b>40 °C</b>                           | Drive End Bearing Size | <b>6201</b>          |
| Opp Drive End Bearing Size | <b>6201</b>                            | UL                     | <b>Recognized</b>    |
| CSA                        | <b>Y</b>                               | CE                     | <b>Y</b>             |

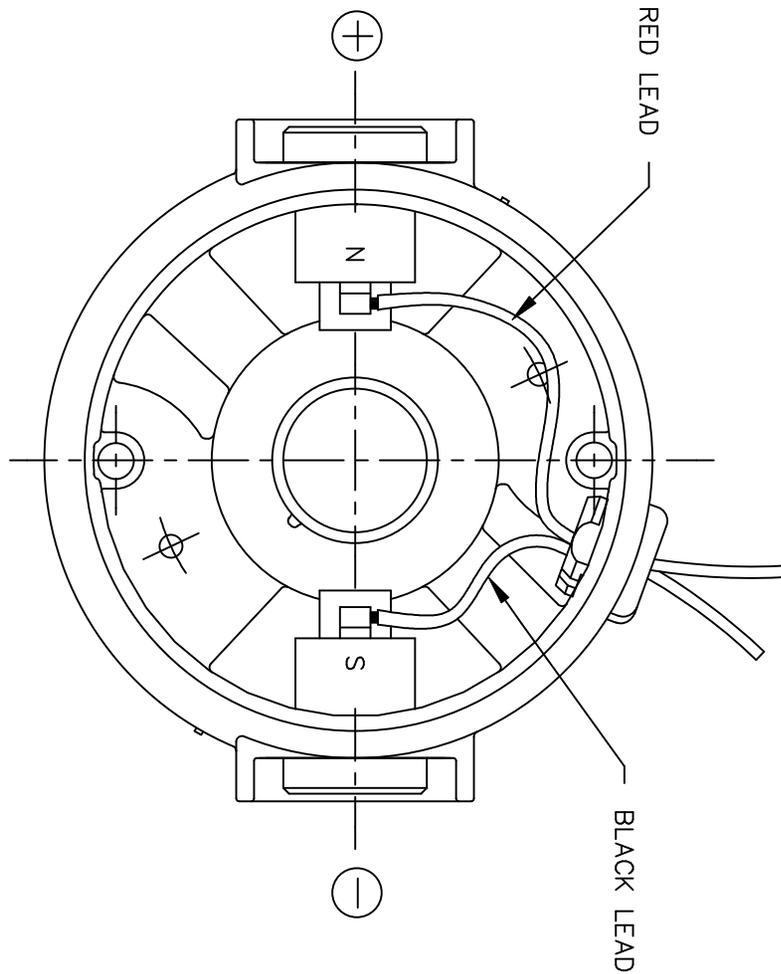
**Technical Specifications**

|                    |                   |                 |                          |
|--------------------|-------------------|-----------------|--------------------------|
| Rotation           | <b>Reversible</b> | Mounting        | <b>Special</b>           |
| Shaft Type         | <b>Parallel</b>   | Overall Length  | <b>11.94 in</b>          |
| Frame Length       | <b>4.94 in</b>    | Shaft Diameter  | <b>0.625 in</b>          |
| Shaft Extension    | <b>1.5 in</b>     | Torque          | <b>77 LB-IN</b>          |
| Connection Drawing | <b>M100530901</b> | Outline Drawing | <b>M1030987-M1125264</b> |

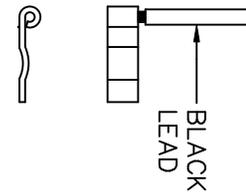
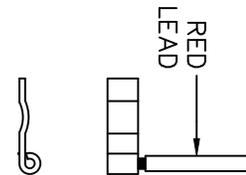
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D.C. MOTORS



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

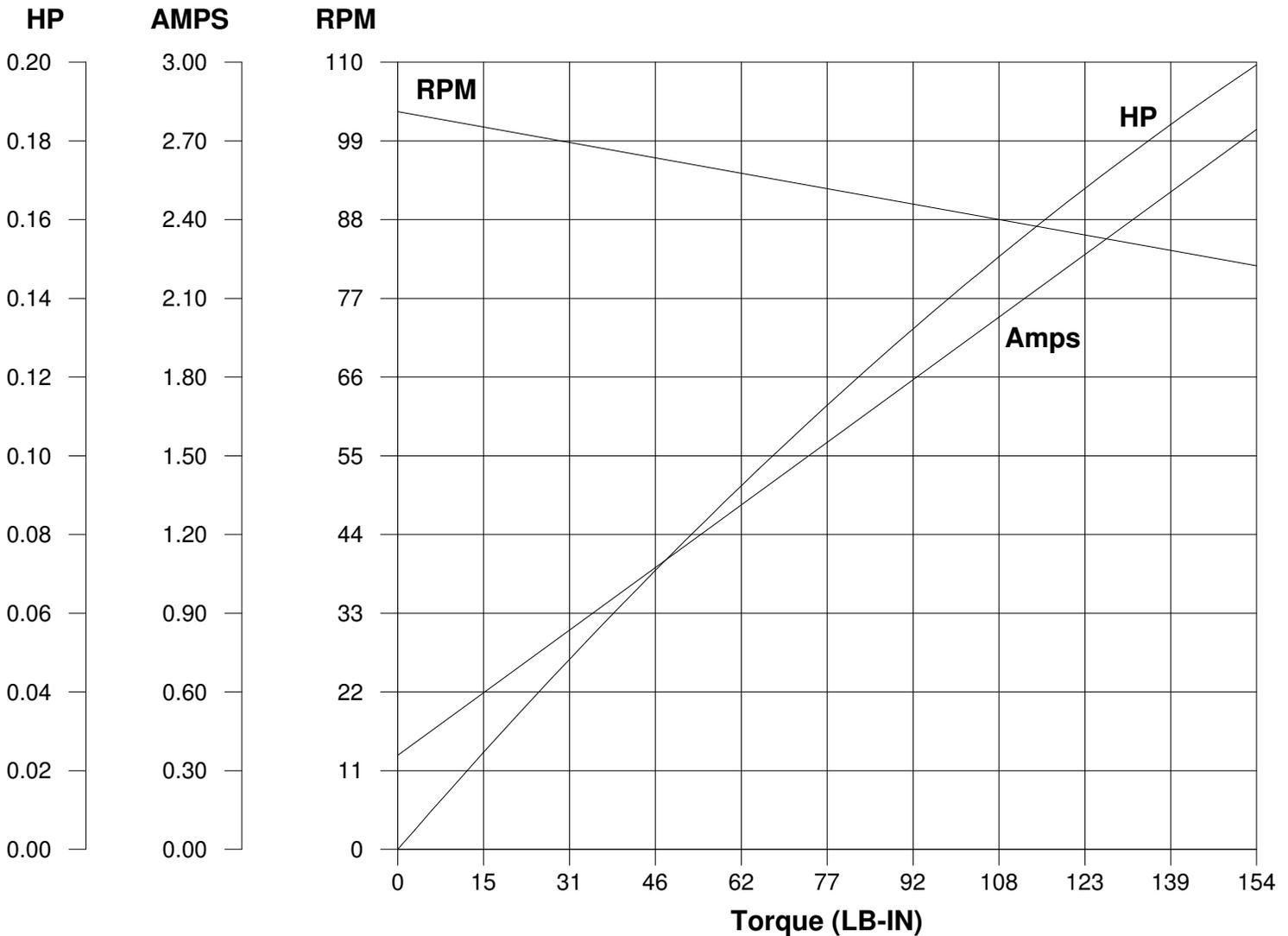


|  |                            |           |        |                             |            |   |        |                    |             |      |
|--|----------------------------|-----------|--------|-----------------------------|------------|---|--------|--------------------|-------------|------|
|  |                            |           |        | TOLERANCES UNLESS SPECIFIED |            |  ELECTRIC MOTORS<br>GEARMOTORS<br>AND DRIVES | DRAWN  | IPG 5/2/05         |             |      |
|  |                            |           |        | DEC.                        | INCHES     |   | CHK    | SAD 5/2/05         |             |      |
|  |                            |           |        | .X                          | ±.1        |   | APPD   |                    |             |      |
|  |                            |           |        | .XX                         | ±.01       |   | TITLE  | CONNECTION DIAGRAM |             |      |
|  |                            |           |        | .XXX                        | ±.005      |   | SCALE  | 1=1                |             |      |
| 00   | RELEASED: REF. M1005308.01 | IPG       | 5/2/05 | SAD                         | .XXXX      | ±.0005  | MAT'L. | REF                | M1005308.01 |      |
| NO.  | REVISION                   | BY & DATE | CHK    | ANG                         | ±1/2"      | FINISH  | FMF    | M1125275.00        | 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   |   |        | SIZE               | DRAWING NO. | REV. |
|  |                            |           |        | DIST                        | M100530901 |   |        | A                  | M1005309.01 | 00   |

# LEESON ELECTRIC CORPORATION

## TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

|                                    |                                       |                             |
|------------------------------------|---------------------------------------|-----------------------------|
| <b>Model No.</b> <u>CM31D17VZ8</u> | <b>Catalog No.</b> <u>M1125264.00</u> |                             |
| <b>HP</b> <u>0.125</u>             | <b>RPM</b> <u>94</u>                  | <b>DC Volts</b> <u>90.0</u> |
| <b>F.F.</b> <u>1.38</u>            | <b>Encl</b> <u>TENV</u>               | <b>Type</b> <u>DN</u>       |
| <b>Max. Amb.</b> <u>40.0 Deg C</u> | <b>Insul.</b> <u>F</u>                | <b>Frame</b> <u>31</u>      |
|                                    |                                       | <b>N.P. FLA</b> <u>1.60</u> |
|                                    |                                       | <b>S.F.</b> <u>1.00</u>     |
|                                    |                                       | <b>Duty</b> <u>CONT</u>     |



**Ra** 6.8000 Ohms  
**La** 37.62 mHenrys  
**Ja** 7.204 OZ-IN<sup>2</sup>  
**Ke** 44.39 V/KRPM

**Kt** 3.752 LB-IN/AMP  
**Imax** 17.9 AMPS Allowed  
**FL Torque** 77.00 LB-IN  
**FL EFF** 60.20 %

**Winding W-** MD312285-1      **Prepared by** V. Boehlen      **Date** 12-14-2005