

PRODUCT INFORMATION PACKET



Model No: M1135108.00
Catalog No: M1135108.00
Parallel Shaft Gearmotor, 0.25 HP, 90 V, 42 RPM, 34 Frame, TENV



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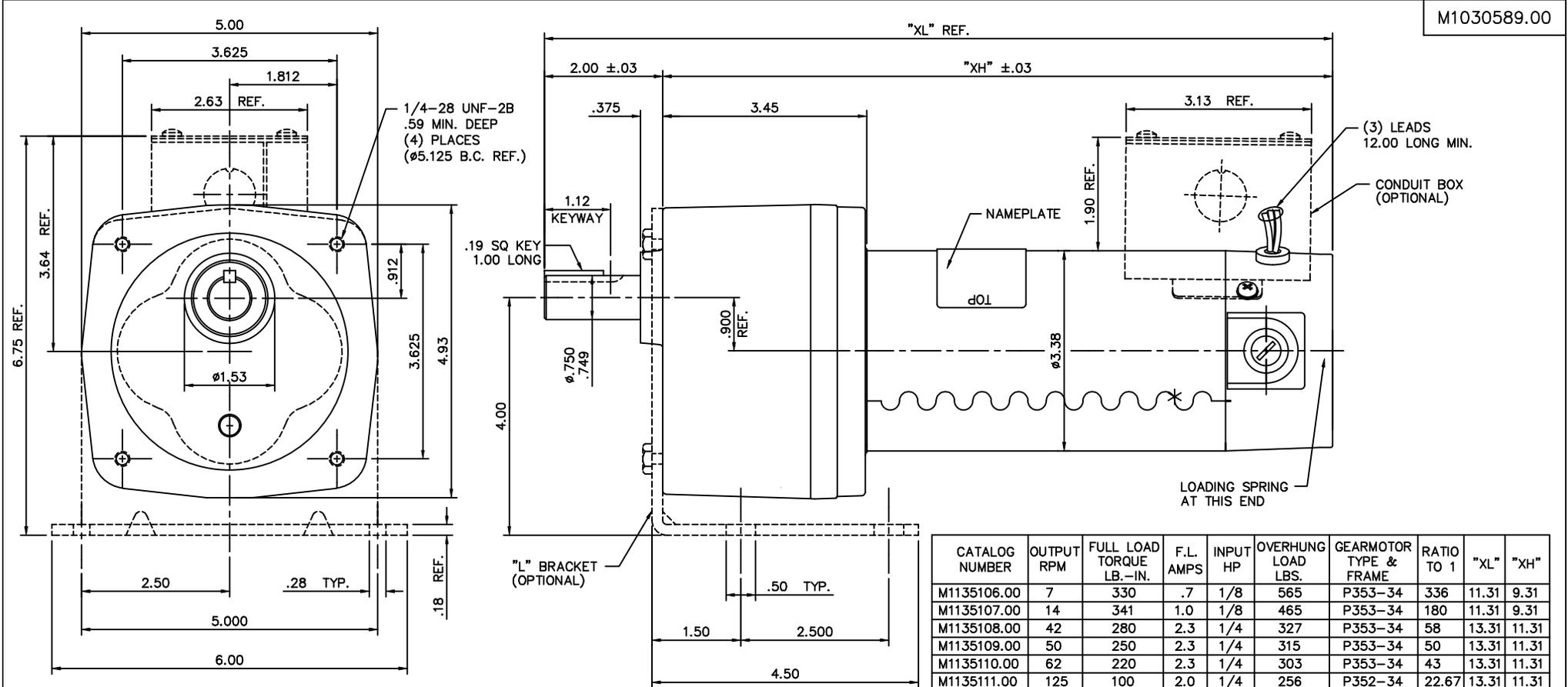
Nameplate Specifications

| | | | |
|----------------------------|----------------------------------|------------------------|---------------|
| Output HP | 0.25 Hp | Output KW | 0.19 kW |
| Voltage | 90 V | Speed | 42 rpm |
| Service Factor | 1.0 | Frame | 34 |
| Enclosure | Totally Enclosed Non Ventilating | Thermal Protection | No Protection |
| Efficiency | 65 % | Ambient Temperature | 40 °C |
| Current | 2.3 A | Duty | Continuous |
| Insulation Class | F | Drive End Bearing Size | 6201 |
| Opp Drive End Bearing Size | 608 | UL | Recognized |
| CSA | Y | CE | Y |

Technical Specifications

| | | | |
|--------------------|------------|-----------------|-------------------|
| Rotation | Reversible | Mounting | Special |
| Shaft Type | Parallel | Overall Length | 13.31 in |
| Frame Length | 6.06 in | Shaft Diameter | 0.750 in |
| Shaft Extension | 1.625 in | Torque | 280 LB-IN |
| Connection Drawing | M100512401 | Outline Drawing | M1030589-M1135108 |

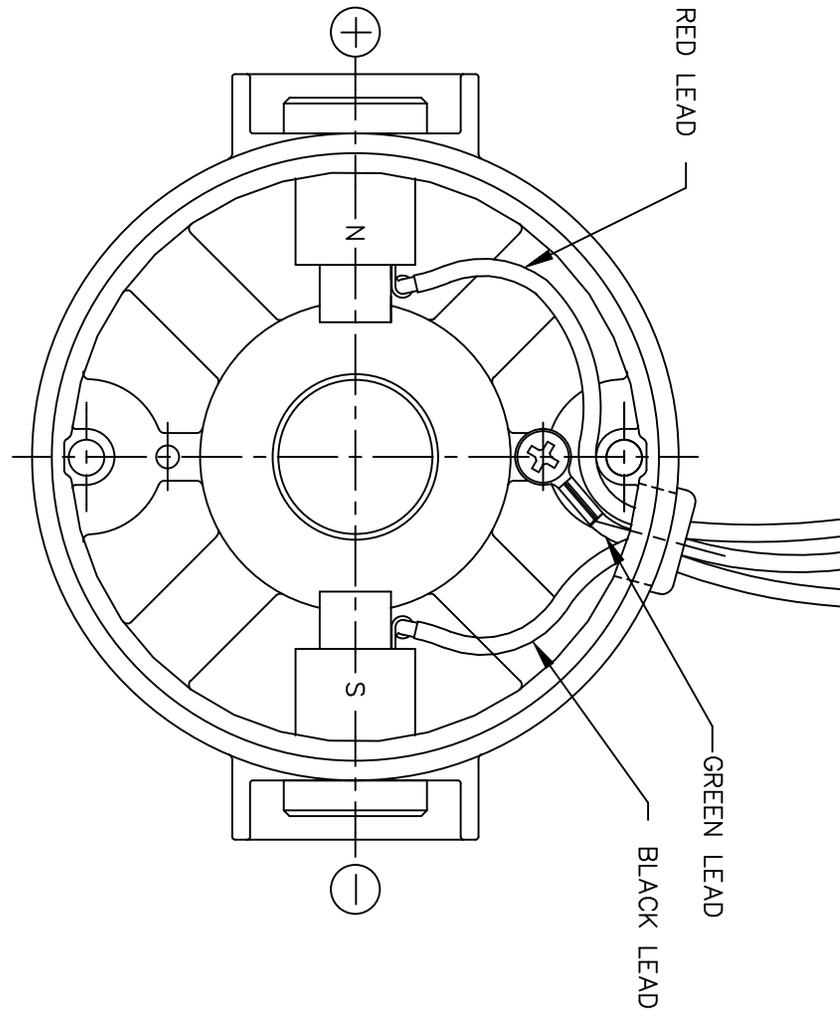
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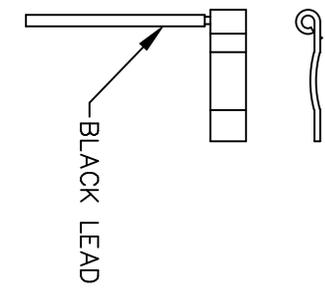
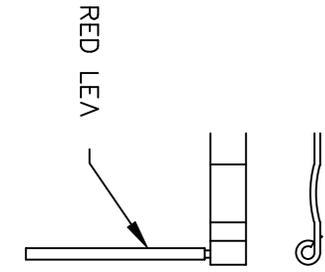
| CATALOG NUMBER | OUTPUT RPM | FULL LOAD TORQUE LB.-IN. | F.L. AMPS | INPUT HP | OVERHUNG LOAD LBS. | GEARMOTOR TYPE & FRAME | RATIO TO 1 | "XL" | "XH" |
|----------------|------------|--------------------------|-----------|----------|--------------------|------------------------|------------|-------|-------|
| M1135106.00 | 7 | 330 | .7 | 1/8 | 565 | P353-34 | 336 | 11.31 | 9.31 |
| M1135107.00 | 14 | 341 | 1.0 | 1/8 | 465 | P353-34 | 180 | 11.31 | 9.31 |
| M1135108.00 | 42 | 280 | 2.3 | 1/4 | 327 | P353-34 | 58 | 13.31 | 11.31 |
| M1135109.00 | 50 | 250 | 2.3 | 1/4 | 315 | P353-34 | 50 | 13.31 | 11.31 |
| M1135110.00 | 62 | 220 | 2.3 | 1/4 | 303 | P353-34 | 43 | 13.31 | 11.31 |
| M1135111.00 | 125 | 100 | 2.0 | 1/4 | 256 | P352-34 | 22.67 | 13.31 | 11.31 |
| M1135112.00 | 165 | 70 | 2.0 | 1/4 | 232 | P352-34 | 15 | 13.31 | 11.31 |
| M1135113.00 | 500 | 25 | 2.0 | 1/4 | 194 | P352-34 | 5.44 | 13.31 | 11.31 |
| M1135114.00 | 83 | 155 | 2.3 | 1/4 | 267 | P352-34 | 29 | 13.31 | 11.31 |
| M1135115.00 | 27 | 305 | 1.5 | 1/4 | 374 | P353-34 | 91 | 13.31 | 11.31 |
| M1135116.00 | 250 | 45 | 2.0 | 1/4 | 201 | P352-34 | 10.6 | 13.31 | 11.31 |
| M1135117.00 | 21 | 371 | 1.1 | 1/4 | 413 | P353-34 | 124 | 13.31 | 11.31 |

| | | | | | | | |
|--|--|--------------|--------|-----------------------------|----------|---|-------------------|
| | | | | TOLERANCES UNLESS SPECIFIED | | LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES | DRAWN DWF 6/26/97 |
| | | DEC. | INCHES | | CHK | | |
| | | .X | ±.1 | | APPD | SCALE 5=8 | |
| 03 | 1/4-28 UNF-2B TAPS WERE .63 DEEP PER ECR81849. | RPB 11/24/03 | BC | .XX | ±.03 | TITLE | OUTLINE |
| 02 | 1.12 KEYWAY WAS 1.03 | IPG 11/30/00 | SAD | .XXX | ±.005 | 34 FRAME PE350 STOCK - 90 V | |
| 01 | UPDATED TO CATALOG INFORMATION PER KK | CAS 10/31/00 | SAD | .XXXX | ±.0005 | MAT'L | FMF M1135115.00 |
| 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 | M1030589 | SIZE DRAWING NO. |
| | | | | DIST | B | M1030589.00 | REV. 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

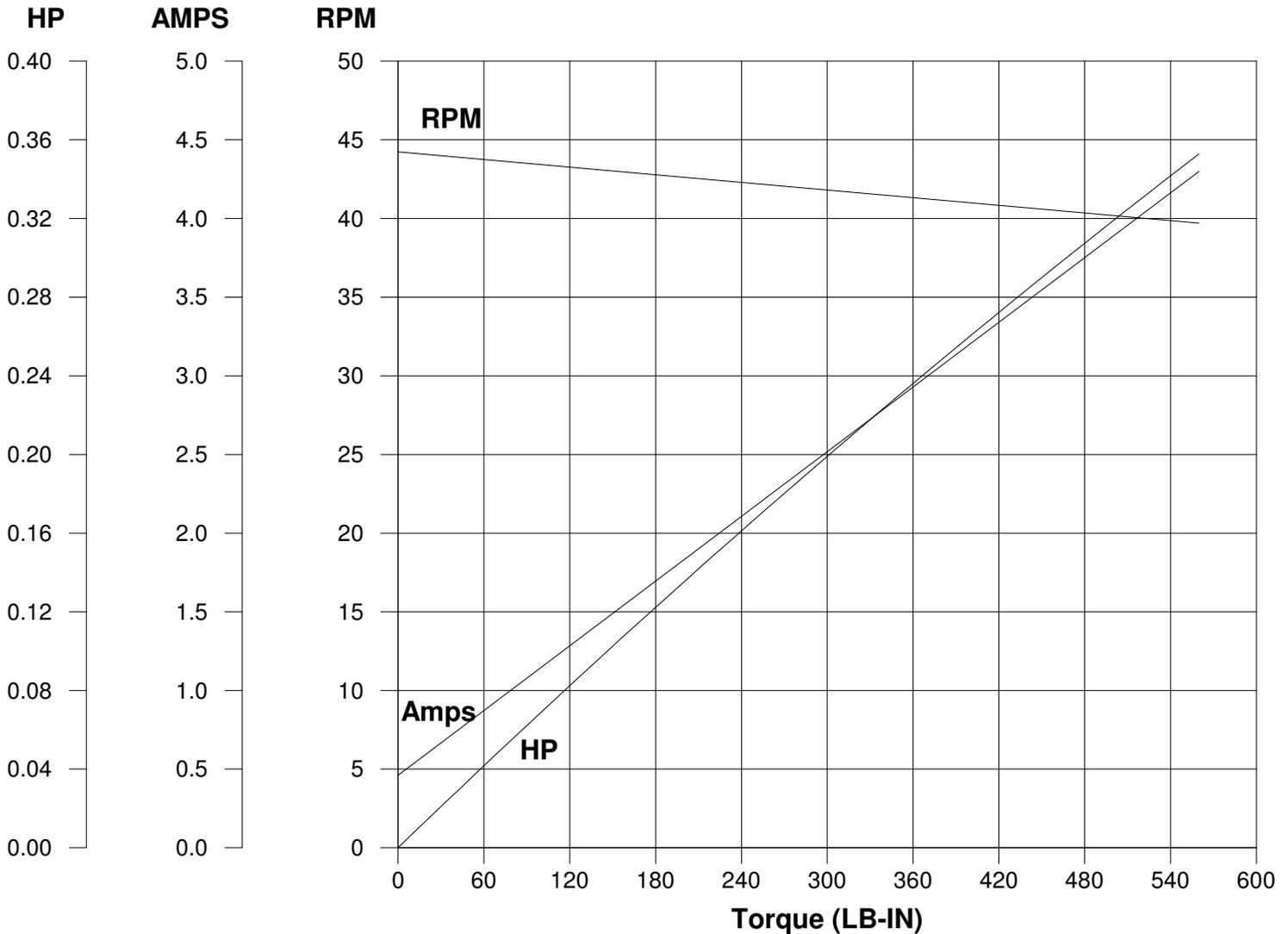


| | | | | | | | | | |
|--|---|-----------|---------|-------|--------------------------------|------------|---|-------------|----------------|
| 07 | CORRECTED "N" & "S", ECR 80000 (PER BC) | VS | 8/14/02 | BC | TOLERANCES UNLESS SPECIFIED | | LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES | DRAWN | SPV 12/10/91 |
| 06 | REMOVED GROUND HOLE | TMZ | 3/16/95 | DEC. | INCHES | | | CHK | DWF 5/20/92 |
| 05 | REVERSE ROTATION WAS CW | SPV | 6/3/94 | .X | ±.1 | | TITLE | APPD | |
| 04 | CHANGED ROTATION FROM CCW TO CW | MJS | 3/9/93 | .XX | ±.01 | | | SCALE | 1=1 |
| 03 | REVISED ROTATION NOTE | DWF | 1/6/93 | .XXX | ±.005 | | MAT'L. | REF | |
| 02 | ADDED GREEN LEAD | DWF | 8/1/92 | .XXXX | ±.0005 | | | FINISH | FMF M9131D2N22 |
| NO. | REVISION | BY & DATE | CHK | ANG | ±1/2" | | | PREV | |
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| | | | | DIST | | | A | M1005124.01 | 07 |

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

| | | |
|-------------------------------------|---------------------------------------|-----------------------------|
| Model No. <u>CM34D25NZ53</u> | Catalog No. <u>M1135108.00</u> | |
| HP <u>0.250</u> | RPM <u>42</u> | DC Volts <u>90.0</u> |
| F.F. <u>1.38</u> | Encl <u>TENV</u> | N.P. FLA <u>2.30</u> |
| Max. Amb. <u>40.0 Deg C</u> | Insul. <u>F</u> | Type <u>DN</u> |
| | Frame <u>34</u> | S.F. <u>1.00</u> |
| | | Duty <u>Cont</u> |



| | |
|--|--------------------------------------|
| Ra <u>2.0650</u> Ohms | Kt <u>2.940</u> LB-IN/AMP |
| La <u>10.00</u> mHenrys | Imax <u>38.4</u> AMPS Allowed |
| Ja <u>0.6440</u> LB-IN ² | FL Torque <u>280.0</u> LB-IN |
| Ke <u>34.78</u> V/KRPM | FL EFF <u>67.90</u> % |

Winding W- MD342145-1 **Prepared by** V. Boehlen **Date** 02-05-2007