

PRODUCT INFORMATION PACKET



Model No: 980.159B

Catalog No: 980.159

1/15HP.3000RPM.56D.IP44.12V.S1.40C.1,0SF.B14.COMMERCIAL DUTY.980.159B

Metric Motors



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Nameplate Specifications

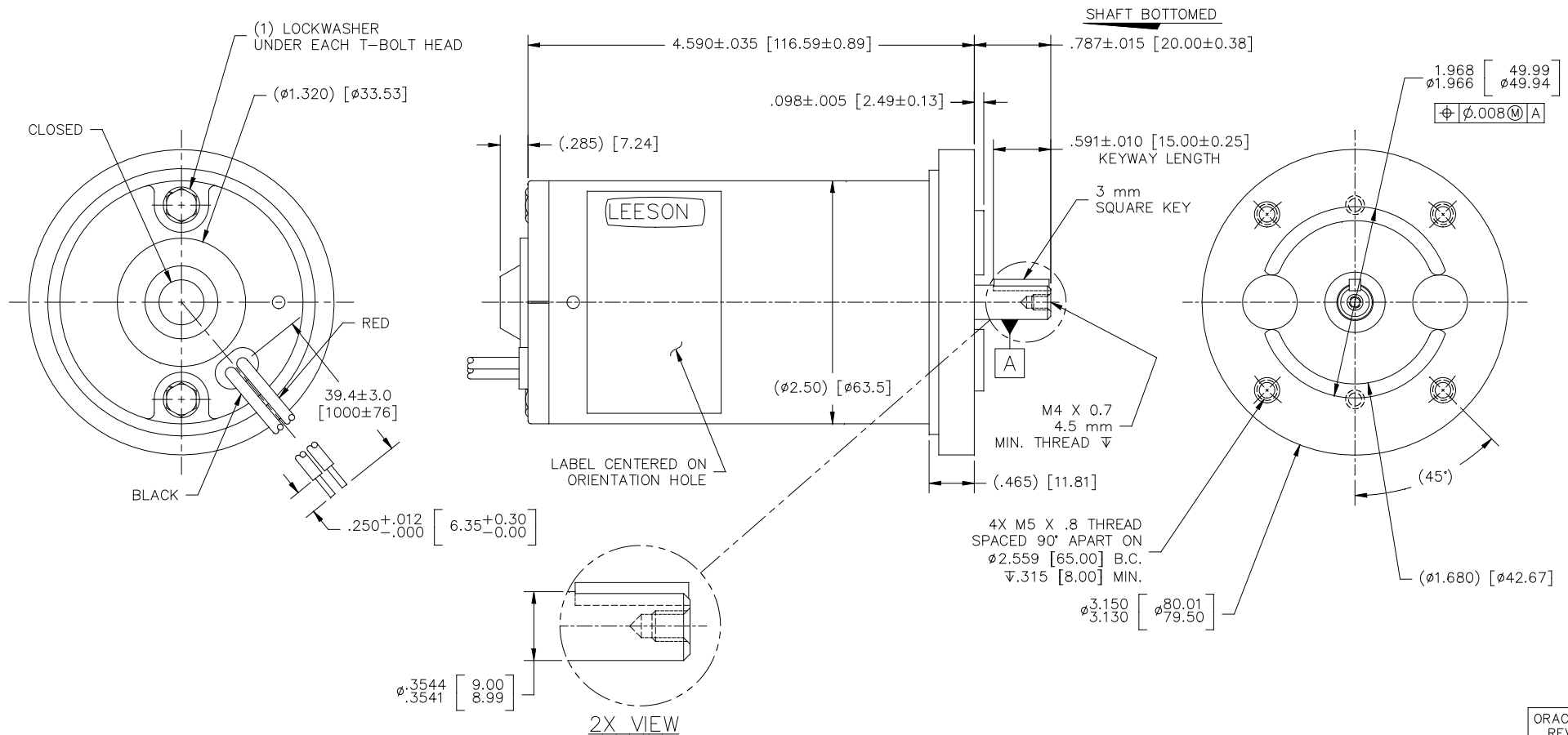
| | | | |
|--------------------|---------|---------------------|----------|
| Output KW | 0.05 kW | Voltage | 12 V |
| Current | 6.4 A | Speed | 3000 rpm |
| Service Factor | 1 | Efficiency | 69.7 % |
| Duty | S1 | Insulation Class | A |
| Frame | 56D | Enclosure | IP44 |
| Overload Protector | No | Ambient Temperature | 40 °C |
| UL | No | CSA | N |
| CE | N | | |

Technical Specifications

| | | | |
|-----------------|------------|--------------------|----------|
| Rotation | Reversible | Mounting | B14 |
| Overall Length | 5.37 in | Frame Length | 3.91 in |
| Shaft Diameter | 0.375 in | Shaft Extension | 0.787 in |
| Outline Drawing | 980159OL | Connection Diagram | 980159FI |

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980.1590L



NOTES:

1. ROTATION: RED POSITIVE CCWSE; REVERSIBLE
2. LEADS: 14 AWG
3. END PLAY: .005--.030
4. HIPOT: 1250 VAC FOR ONE SECOND, BOTH LEADS TO CASE
5. VOLTAGE: 12 VDC
6. INSULATION: CLASS A 105°C
7. BEARING SYSTEM: SLEEVE BOTH ENDS
8. LOAD POINT: 36 oz-in @ 2900 RPM ± 150 RPM

| | | | | TOLERANCES UNLESS SPECIFIED | | LEESON | ELECTRIC MOTORS GEARMOTORS AND DRIVES | ORACLE | |
|--|---|-----------|--------|--------------------------------|-----------------|-----------------|---|----------|-------------|
| | | | | DEC. | INCHES | | | REV | REV |
| | | | | .X | $\pm .1$ | | | 001 | |
| | | | | .XX | $\pm .03$ | | | | |
| | | | | .XXX | $\pm .005$ | | | | |
| | | | | .XXXX | $\pm .0005$ | | | | |
| C | REMOVED RUBBER BAND FROM KEY, ECO-0140897 | IPG | 3/5/18 | CHK | ANG | $\pm 1/2^\circ$ | TITLE | OUTLINE | SCALE |
| NO. | REVISION | BY & DATE | CHK | ANG | $\pm 1/2^\circ$ | FINISH | 25 FRAME DC | REF | 1=1 |
| 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 | | | | | | | MAT'L | FMF | 980.159 |
| | | | | | | | CAD FILE | 9801590L | PREV |
| | | | | | | | SIZE | B | DRAWING NO. |
| | | | | | | | | | 980.1590L |
| | | | | | | | | | C |


1. HIPOT AT 1250 VAC FOR ONE SECOND ; BOTH LEADS TO CASE
2. RUN IN AT 12 VDC , 1.20 AMPS MAX AT NO LOAD
3. TORQUE SCREWS TO 20–25 LB-IN
4. LOAD TEST PER PERFORMANCE DATA BELOW
5. ROTATION: RED (+) CCW SHAFT END

CHECK TO OUTLINE DRAWING

- A. SHAFT EXTENSION
- B. LEAD EXTENSION
- C. LEAD STRIP LENGTH
- D. END PLAY
- E. ALL HOLES TAPPED PER OUTLINE DRAWING

PERFORMANCE DATA

| <u>TORQUE</u> | <u>SPEED</u> | <u>MAX AMPS</u> |
|---------------|--------------|-----------------|
| 15 ozin | 2900–3340 | 4.60 |
| 30 ozin | 2570–2960 | 8.25 |
| 45 ozin | 2240–2580 | 11.90 |

| | | | | | | | | |
|--|---------------------------------------|-------------|------|--------------------------------|-------------------|--|--------------------------|------------|
| | | | | TOLERANCES UNLESS SPECIFIED | |  ELECTRIC MOTORS GEARMOTORS AND DRIVES | DRAWN AD 8/7/01 | |
| | | | | DEC. | INCHES | | CHK | |
| | | | | .X | ±.1 | | APPD | |
| 02 | UPDATED PERFORMANCE DATA, ECN 06–1629 | IPG 4/26/06 | SAD | .XX | ±.01 | TITLE FINAL INSPECTION 25 FRAME DC | SCALE 1=1 | |
| 01 | UPDATED PERFORMANCE SPECS. | JKM 11/2/01 | | .XXX | ±.005 | | REF | |
| 00 | RELEASED | AD 8/7/01 | | .XXXX | ±.0005 | | FMF 980.159 | |
| NO. | REVISION | BY & DATE | CHK | ANG | ±1/2" | MAT'L. | 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 980159FI | SIZE A | DRAWING NO. 980.159FI | REV. 02 |
| | | | DIST | | | | | |