

PRODUCT INFORMATION PACKET



Model No: 109072.00

Catalog No: 109072.00

Premium Duck™ Washdown Motor, 0.75 HP, 90 V, 1750 RPM, XS56C Frame, TEFC



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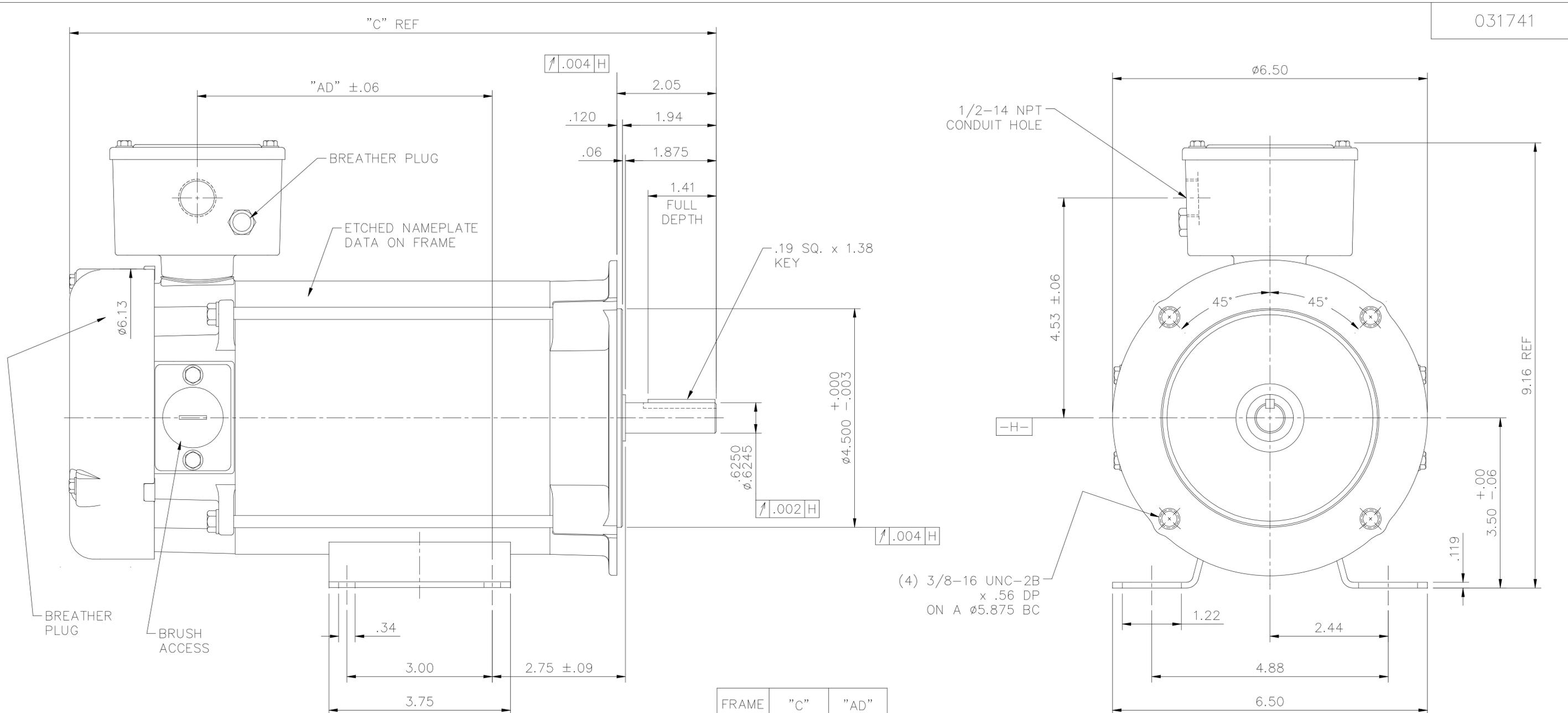
Nameplate Specifications

| | | | |
|----------------------------|------------------------------------|------------------------|----------------------|
| Output HP | 0.75 Hp | Output KW | 0.56 kW |
| Voltage | 90 V | Speed | 1750 rpm |
| Service Factor | 1.0 | Frame | XS56C |
| Enclosure | Totally Enclosed Fan Cooled | Thermal Protection | No Protection |
| Efficiency | 86.2 % | Ambient Temperature | 40 °C |
| Current | 7.5 A | Duty | Continuous |
| Insulation Class | F | Drive End Bearing Size | 6205 |
| Opp Drive End Bearing Size | 6203 | UL | Recognized |
| CSA | Y | CE | N |

Technical Specifications

| | | | |
|--------------------|-------------------|-----------------|---------------------|
| Rotation | Reversible | Mounting | Rigid C base |
| Overall Length | 15.37 in | Frame Length | 8.75 in |
| Shaft Diameter | 0.625 in | Shaft Extension | 2.05 in |
| Torque | 27 LB-IN | | |
| Connection Drawing | 005487 | Outline Drawing | 031741-XS56C |

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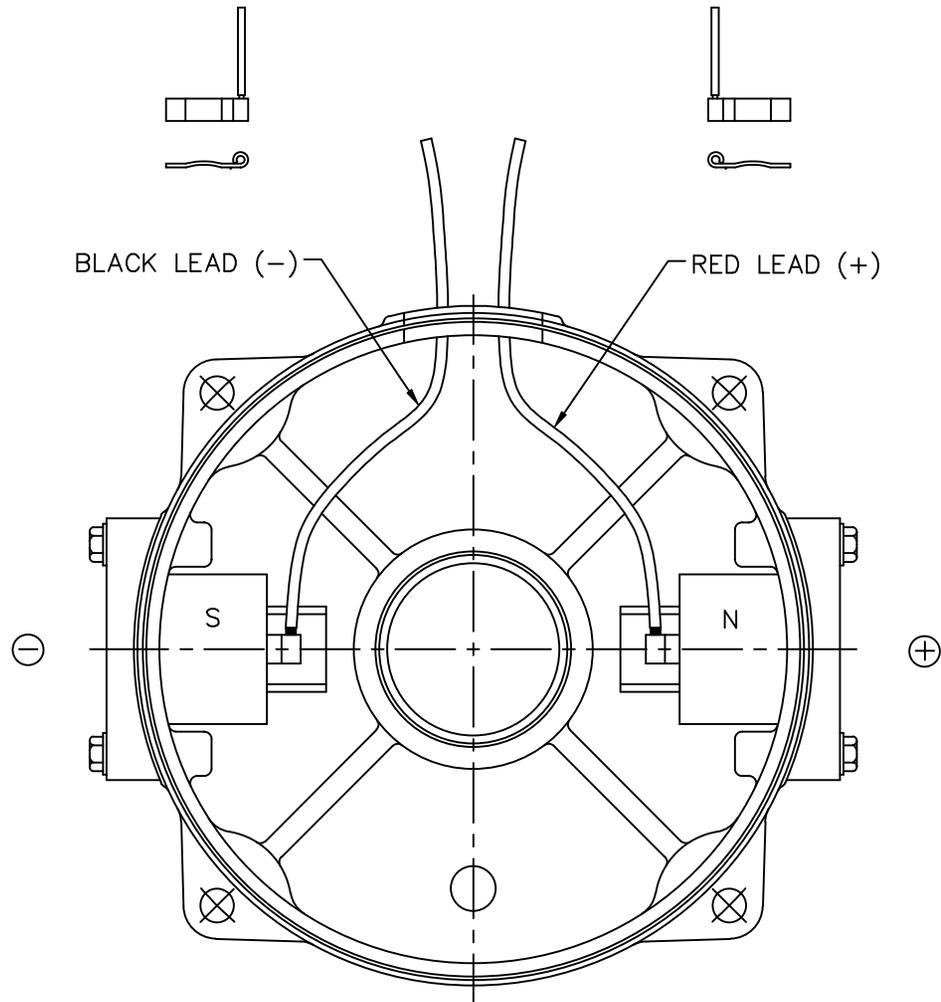
| FRAME | "C" | "AD" |
|-------|-------|------|
| NS56C | 12.87 | 5.59 |
| RS56C | 13.37 | 6.09 |
| US56C | 13.87 | 6.59 |
| VS56C | 14.37 | 7.09 |
| WS56C | 14.87 | 7.59 |
| XS56C | 15.37 | 8.09 |
| YS56C | 15.87 | 8.59 |
| ZS56C | 16.37 | 9.09 |

STAINLESS STEEL WASHGUARD MOTOR
SPECIAL FEATURES:

- 1) VITON CONDUIT BOX & COVER GASKETS
- 2) VITON O-RINGS IN ENDBELL RABBETS
- 3) VITON O-RINGS IN BRUSH HOLDER & CAP
- 4) VITON SHAFT SEAL
- 5) BREATHING PLUGS IN CONDUIT BOX & ENDBELL
- 6) ETCHED NAMEPLATE DATA ON MOTOR FRAME
- 7) ALL-STAINLESS STEEL CONSTRUCTION

| |
|------------|
| ORACLE REV |
| 003 |

| NO. | REVISION | BY & DATE | CHK | ANG | TOLERANCES UNLESS SPECIFIED | | TITLE | DRAWN | PG | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------|-----|-------|-----------------------------|-----------------------------------------|---------------------------------------|--------------|--------|--------|--------------------|--------|
| | | | | | DEC. | INCHES | | | | | | |
| E | CORRECTED BREATHING LOCATION, ECO-0168998 | IPG 6/18/19 | | .XX | ±.03 | | ELECTRIC MOTORS GEARMOTORS AND DRIVES | PG 9/8/03 | | | | |
| 02 | ADDED FRAME DESIGNATION TO TABLE, PER 109075.00 | IPG 1/11/05 | SAD | .XXX | ±.005 | OUTLINE 48 FRAME DC - S56C MOUNT - TEFC | | CHK | | | | |
| 01 | RELEASED FOR PRODUCTION | PG 11/30/04 | PG | .XXXX | ±.0005 | MAT'L. STAINLESS STEEL | APPD | PG 11/30/04 | | | | |
| | | | | | ±1/2' | FINISH | | SCALE 1=2 | | | | |
| | | | | | | | | REF 030967 | | | | |
| | | | | | | | | FMF STANDARD | | | | |
| | | | | | | | | 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 | 031741 | SIZE B | DRAWING NO. 031741 | REV. E |
| | | | | | | | DIST | | | | | |



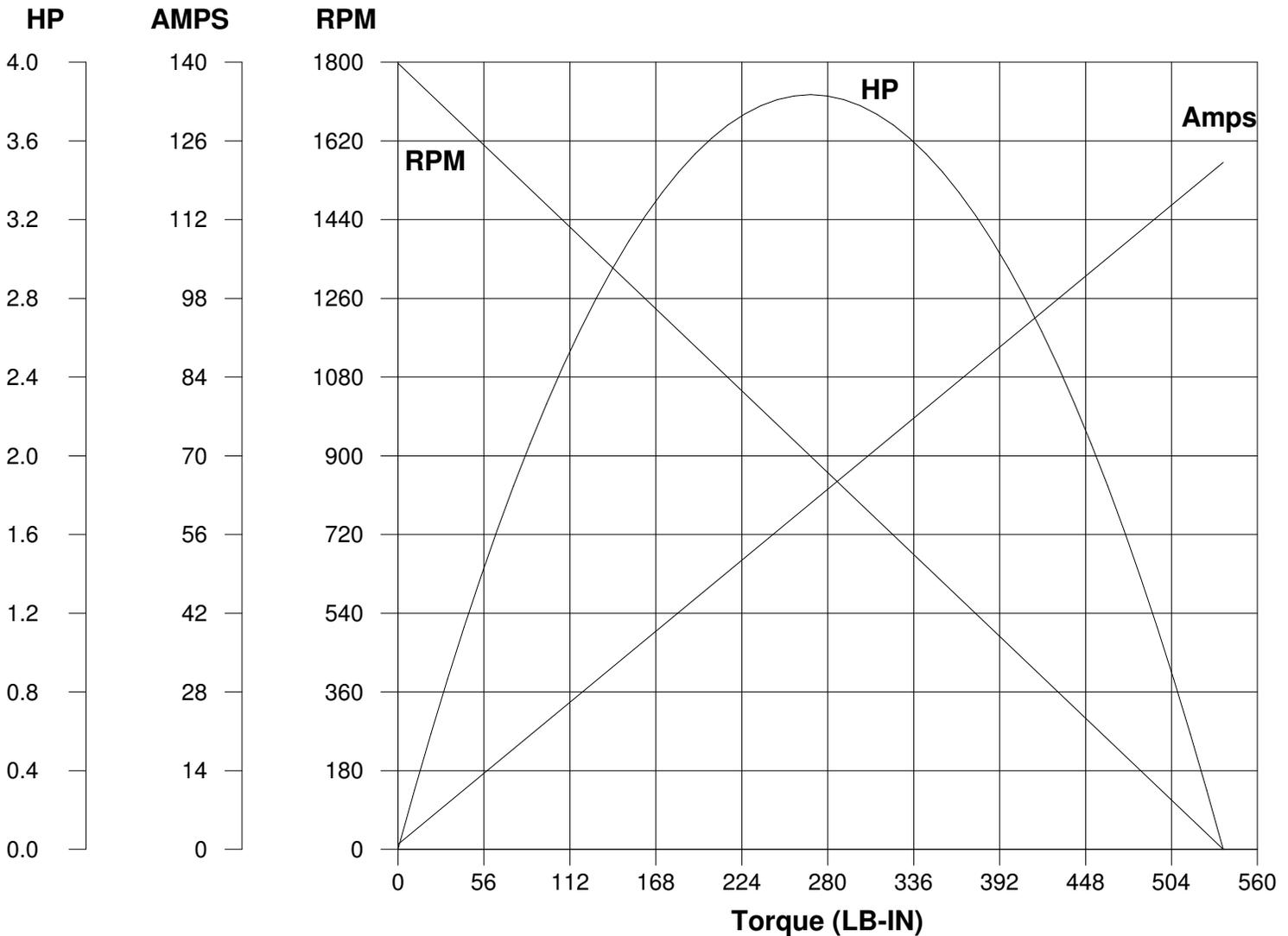
EXTERNAL CONNECTIONS FOR CCWLE ROTATION
 VIEWING LEAD END OF MOTOR WITH RED LEAD
 POSITIVE AND BLACK LEAD NEGATIVE.
 FOR CW ROTATION, REVERSE POLARITY.

| | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-----|-----------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|------|
| | | | | TOLERANCES UNLESS SPECIFIED | |  ELECTRIC MOTORS GEARMOTORS AND DRIVES | DRAWN PG 12/10/04 | | |
| | | | | DEC. | INCHES | | CHK | | |
| | | | | .X | ±.1 | | APPD PG 12/10/04 | | |
| | | | | .XX | ±.01 | | SCALE 5=8 | | |
| | | | | .XXX | ±.005 | | REF | | |
| | | | | .XXXX | ±.0005 | MAT'L. | FMF 109075.00 | | |
| NO. | REVISION | BY & DATE | CHK | ANG | ±1/2" | FINISH | PREV | | |
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| | | | | DIST | | | | | |

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

| | | |
|-----------------------------|------------------------------|----------------------|
| Model No. <u>C4D17WK13</u> | Catalog No. <u>109072.00</u> | |
| HP <u>0.750</u> | RPM <u>1750</u> | DC Volts <u>90.0</u> |
| F.F. <u>1.38</u> | Encl <u>TEFC</u> | Type <u>DF</u> |
| Max. Amb. <u>40.0 Deg C</u> | Insul. <u>F</u> | Frame <u>XS56C</u> |
| | | N.P. FLA <u>7.50</u> |
| | | S.F. <u>1.00</u> |
| | | Duty <u>CONT</u> |



Ra 0.4600 Ohms
La 5.900 mHenrys
Ja 14.38 LB-IN²
Ke 51.44 V/KRPM

Kt 4.348 LB-IN/AMP
Imax 124.0 AMPS Allowed
FL Torque 27.00 LB-IN
FL EFF 84.20 %

Winding W- D552643-1 **Prepared by** V. Boehlen **Date** 10-17-2005