# Vertical Pump Motors

**Model No:** 184TTFR16054
**Catalog No:** M879B

Vertical Pump Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 184HPV Frame, TEFC

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## Product Information Packet: Model No: 184TTFR16054, Catalog No: M879B  Vertical Pump Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 184HPV Frame, TEFC

### Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **5 Hp** |
| Output KW | **3.7 kW** | Voltage | **230/460 V** |
| Speed | **1755 r/min** | Synchronous RPM | **1800 r/min** |
| Service Factor | **1.15** | Frame | **184HPV** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **90.2 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 Hz** | Current | **12.4/6.2 A** |
| Power Factor | **83.5** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **J** | Drive End Bearing Size | **6207** |
| Opp Drive End Bearing Size | **6205** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |
| IP Code | **43** | Number of Speeds | **1** |

### Technical Specifications

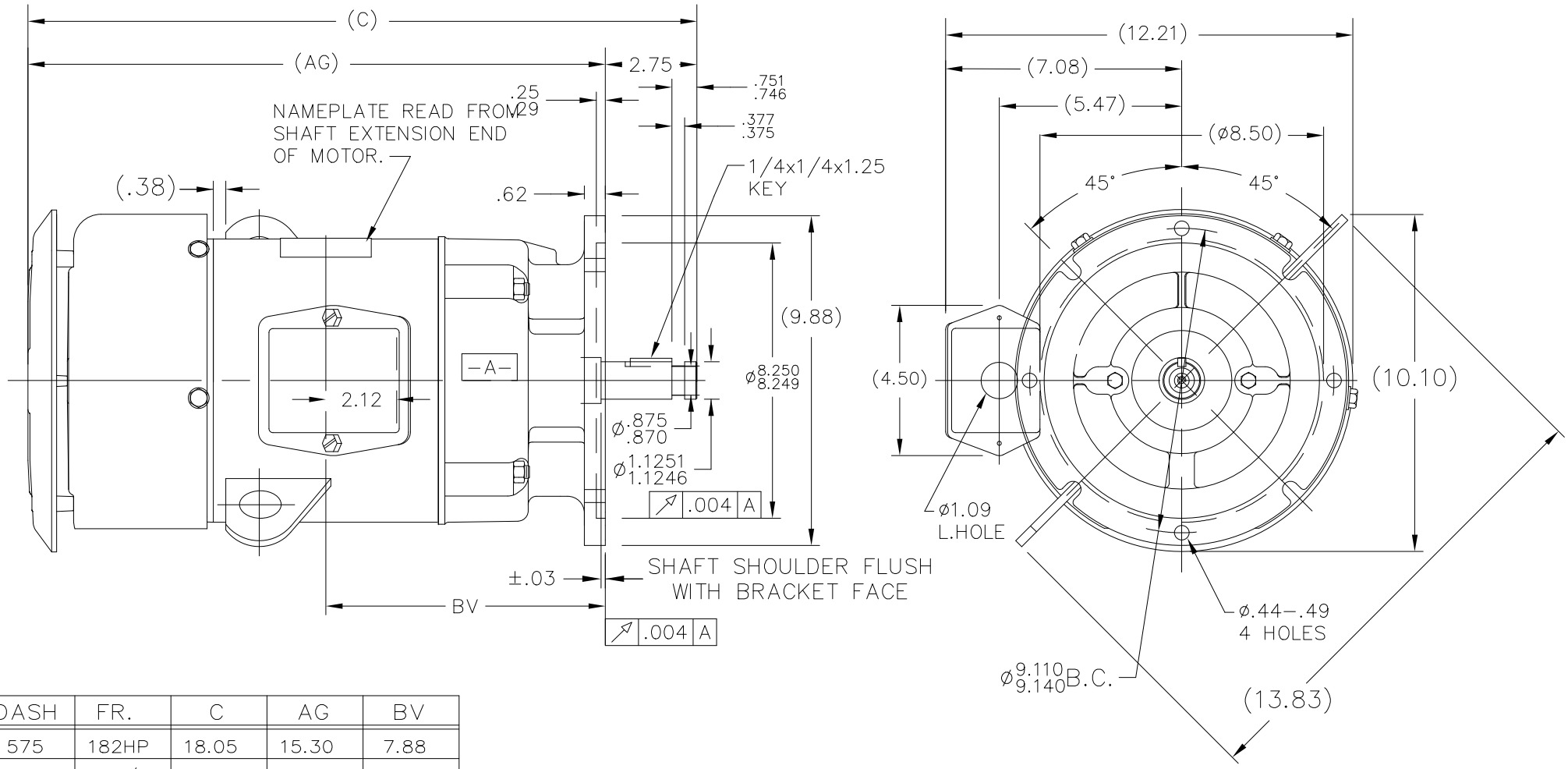
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Induction Run** | Starting Method | **Across The Line** |
| Poles | **4** | Rotation | **Reversible** |
| Resistance Main | **2.62 O** | Mounting | **Round** |
| Motor Orientation | **Shaft Down** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Rolled Steel** |
| Shaft Type | **HP** | Overall Length | **21.55 in** |
| Frame Length | **9.25 in** | Shaft Diameter | **1 1/8 in** |
| Shaft Extension | **2.75 in** | Assembly/Box Mounting | **F1/F2 Capable** |

### Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **EE7308** | Outline Drawing | **SS69314-925** |

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| DASH | FR. | C | AG | BV |
|---|---|---|---|---|
| 575 | 182HP | 18.05 | 15.30 | 7.88 |
| 675 | 182/4 | 19.05 | 16.30 | 8.38 |
| 775 | 182/4 | 20.05 | 17.30 | 8.88 |
| 825 | 182/4 | 20.55 | 17.80 | 9.12 |
| 925 | 182/4 | 21.55 | 18.80 | 9.62 |

| DRAWING REVISION | REVISION BY | REV DATE/ © DATE |
|---|---|---|
| J | SB | 05/18/2026 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0026308 | RMS | 05/18/2026 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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TOLERANCES (EXCEPT AS NOTED):

| DEC. | INCH | mm | ANGLE |
|---|---|---|---|
| .X | ±0.1 | [±3] | ±7' 30" |
| .XX | ±0.03 | [±0.8] | |
| .XXX | ±0.005 | [±0.13] | |
| .XXXX | ±0.0005 | [±0.013] | |

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45 °
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200 / INCH 5.1 / mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

| DRAWN BY | DATE | APPROVED BY | DATE | REFERENCE |
|---|---|---|---|---|
| TJB | 10/03/2002 | PH | 10/04/2002 | |

THIRD ANGLE PROJECTION

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DESCRIPTION
OUTLINE
180HP FR. - BB - TS - TEFC - 'P' BASE

| MATERIAL | PROCESS/FINISH |
|---|---|
| | |

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| A | SS69314 | 1 OF 1 |

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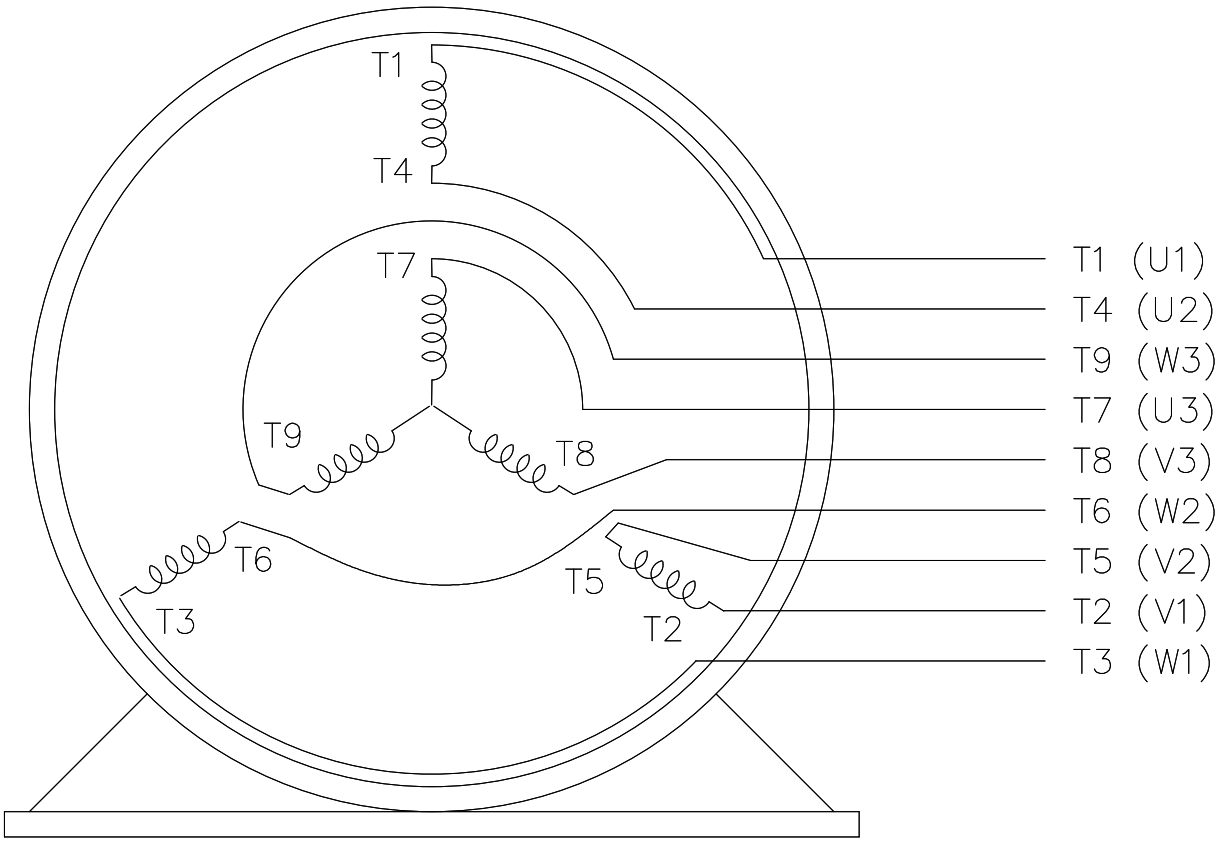
# THREE PHASE
# DUAL VOLTAGE MOTOR

## HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9

## LOW VOLTAGE

(U1) T1
(U3) T7 — L1
(V1) T2
(V3) T8 — L2
(W1) T3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6




VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

## OPTIONAL CORD CONNECTION

L1 — WHITE
L2 — RED
L3 — BLACK

| DRAWING REVISION | REVISION BY | REV DATE/ © DATE |
|---|---|---|
| J | SB | 08/01/2025 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0023654 | SBD | 08/01/2025 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

| DRAWN BY | RM |
|---|---|
| DATE | 11/20/1990 |
| APPROVED BY | SAS |
| DATE | 04/24/2003 |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

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DESCRIPTION
CONN DIAGRAM-EXTERNAL
3Ø - DUAL VOLTAGE MOTOR

| MATERIAL | PROCESS/FINISH |
|---|---|
| | |

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| A | 4 of 6 EE7308 | 1 OF 1 |

# Data Sheet

Date: 6/19/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

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184TTFR16054

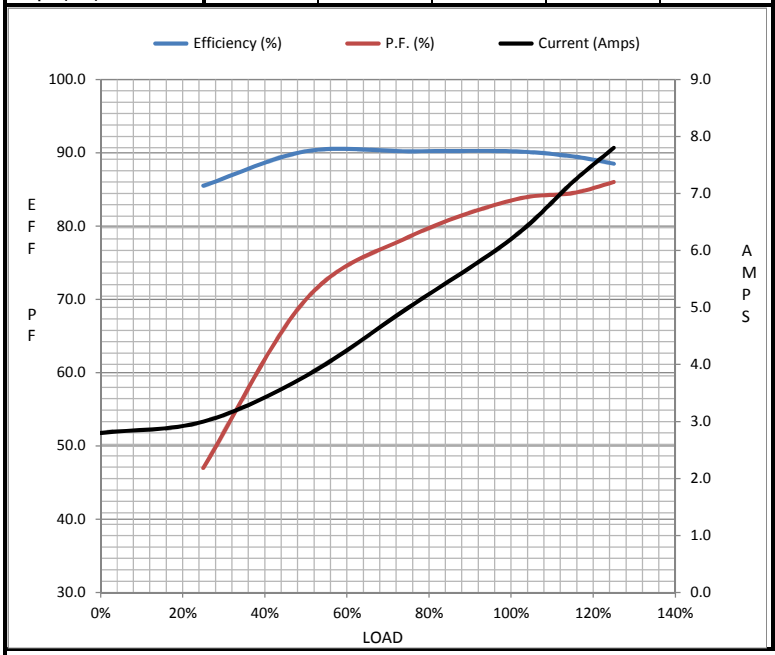
Submittal
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 2.80 | 3.0 | 3.8 | 5.0 | 6.2 | 7.2 | 7.8 | 46.0 | |
| Torque (ft-lb) | 0.00 | 3.7 | 7.4 | 11.5 | 15.0 | 17.5 | 19.0 | 34.5 | |
| RPM | 1800 | 1790 | 1780 | 1765 | 1755 | 1,745 | 1740 | 0 | |
| Efficiency (%) | | 85.5 | 90.2 | 90.2 | 90.2 | 89.5 | 88.5 | | |
| P.F. (%) | 6.5 | 47.0 | 70.0 | 78.5 | 83.5 | 84.5 | 86.0 | 48.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 750 | 1500 | 1755 | 1800 |
| Current (Amps) | 46.0 | 42.0 | 25.0 | 6.2 | 2.80 |
| Torque (ft-lb) | 34.5 | 32.0 | 45.0 | 15.0 | 0.00 |

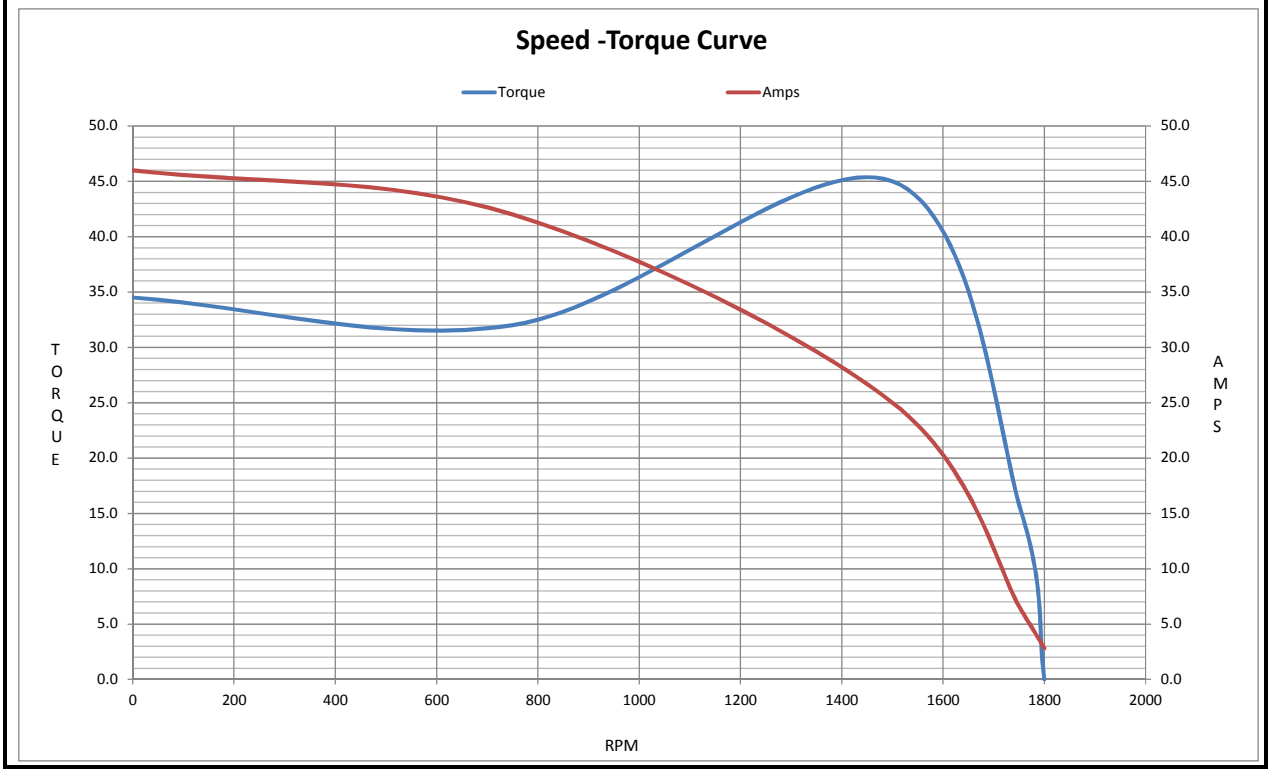



## Information Block

| | |
|---|---|
| HP | 5.0 |
| Sync. RPM | 1800 |
| Frame | 184 |
| Enclosure | TEFC |
| Construction | TFW |
| Voltage | 230/460 V |
| Frequency | 60 Hz |
| Design | B |
| LR Code letter | J |
| Service Factor | 1.15 |
| Temp Rise @ FL | 60 ° C |
| Duty | CONT |
| Ambient | 40 ° C |
| Elevation | 1,000 feet |
| Rotor/Shaft wk² | 0.50 Lb-Ft² |
| Ref Wdg | K1844215 FR |
| Sound Pressure @ 1M | 62 dBA |
| VFD Rating | NONE |
| Outline Dwg | SS69314-925 |
| Conn. Diag | EE7308 |
| Additional Specifications: | |
| 0 | |
| 0 | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 1.5080 | 1.1280 | 3.6910 | 5.6930 | 104.3280 |



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## CERTIFICATION DATA SHEET

| | | | |
|---|---|---|---|
| **Model#:** | 184TTFR16054 AA | **WINDING#:** | K1844215 FR 1 |
| **CONN. DIAGRAM:** | EE7308 | **ASSEMBLY:** | F1/F2 CAPABLE |
| **OUTLINE:** | SS69314-925 | | |

## TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|
| 5 | 3.70 | 1800 | 1755 | 184HPV | TEFC | J | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60 | 230/460 | 12.4/6.2 | ACROSS THE LINE | CONTINUOUS | F3 | 1.15 | 40 | 3300 |

| FULL LOAD EFF: 90.2 | 3/4 LOAD EFF: 90.2 | 1/2 LOAD EFF: 90.2 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---|---|---|---|---|---|
| FULL LOAD PF: 83.5 | 3/4 LOAD PF: 78.5 | 1/2 LOAD PF: 70 | 88.5 | SQ CAGE IND RUN | 5.6 / 2.8 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|---|---|---|---|---|
| 15 LB-FT | 92 / 46 | 34.5 LB-FT 230 | 45 LB-FT 300 | 60 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---|---|---|---|---|---|---|
| 62 dBA | 72 dBA | 0.5 LB-FT^2 | - LB-FT^2 | 25 SEC. | - | 110 LBS. |

## *** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|---|---|---|---|---|---|---|---|---|
| P-BASE | STANDARD | ROUND | SHAFT DOWN | FALSE | NONE | TRUE | NONE | GRAY (ENAMEL) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|---|---|---|---|---|---|---|---|
| DE | OPE | | | | | | |
| BALL 6207 | BALL 6205 | POLYREX EM | HP | NONE | NONE | 1144 STRESSPROOF (C-223) | ROLLED STEEL |

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE /n HEATERS |
|---|---|---|---|---|---|---|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| NONE | NOT | NONE | NONE | NONE | FALSE | NONE VOLTS |

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

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FORM 3531 REV.3 02/07/99
** Subject to change without notice.