# PRODUCT INFORMATION PACKET

Model No: A6T34XB23A

Catalog No: 119425.00

..1HP..3600RPM.56.EPFC.230/460V.3PH.60HZ.CONT.40C.1.00SF.RIGID.....GENERAL PURPOSE.AUTO.....

Explosion Proof

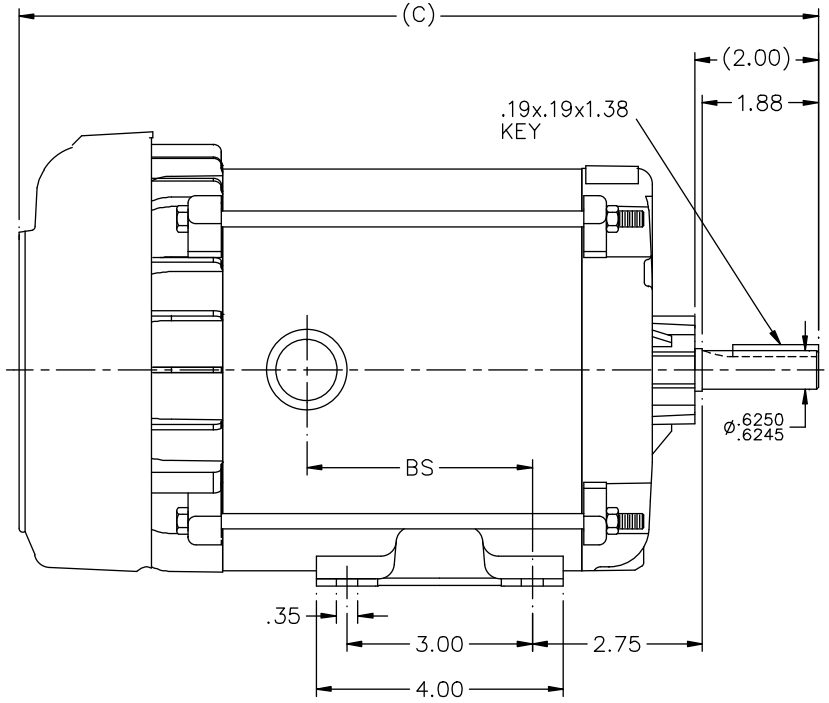
## Nameplate Specifications

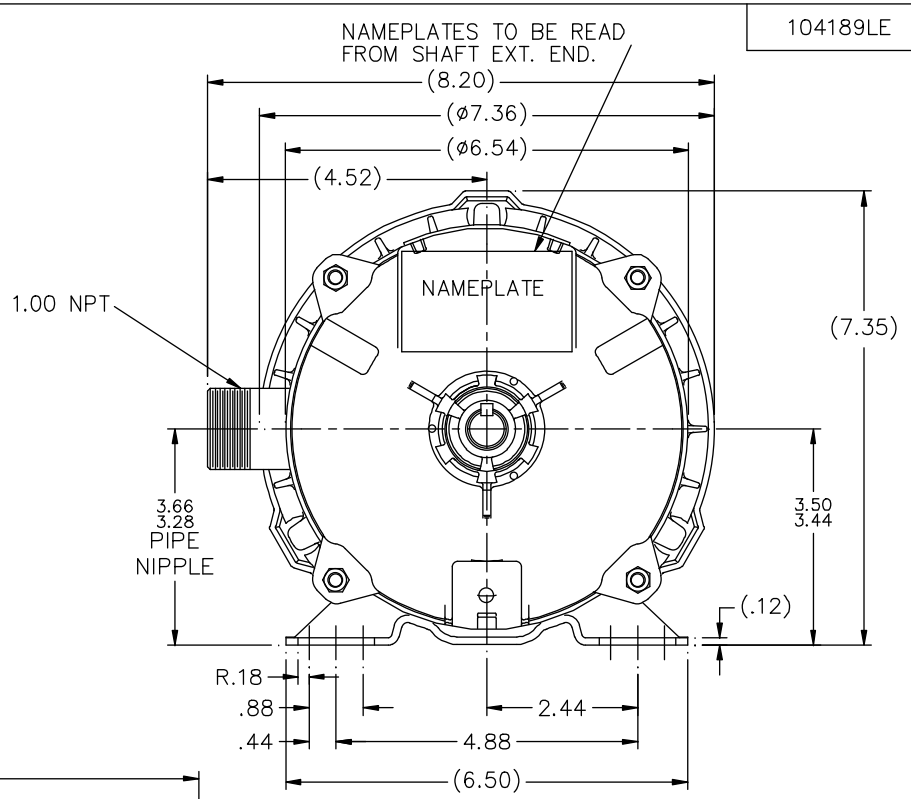
| | | | |
|---|---|---|---|
| Output HP | **1 Hp** | Output KW | **0.75 kW** |
| Frequency | **60 Hz** | Voltage | **230/460 V** |
| Current | **3.0/1.5 A** | Speed | **3450 rpm** |
| Service Factor | **1** | Phase | **3** |
| Efficiency | **80 %** | Duty | **Continuous** |
| Insulation Class | **B** | Design Code | **B** |
| KVA Code | **K** | Frame | **56** |
| Enclosure | **Explosion Proof Fan cooled** | Overload Protector | **Automatic** |
| Ambient Temperature | **40 °C** | Drive End Bearing Size | **6203** |
| Opp Drive End Bearing Size | **6203** | UL | **Recognized** |
| CSA | **Y** | CE | **N** |
| IP Code | **54** | | |

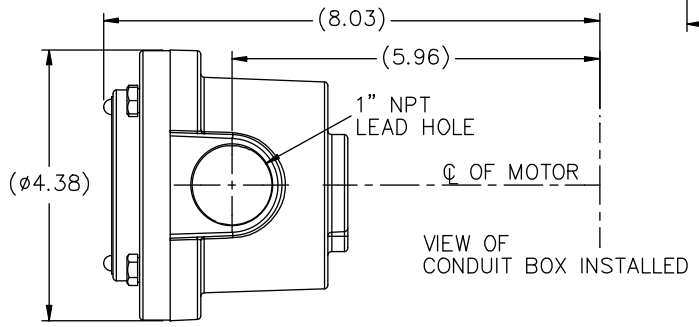
## Technical Specifications

| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Induction Run** | Starting Method | **Across The Line** |
| Poles | **2** | Rotation | **Reversible** |
| Mounting | **Rigid base** | Motor Orientation | **HORIZONTAL** |
| Drive End Bearing | **BALL** | Opp Drive End Bearing | **BALL** |
| Frame Material | **Rolled Steel** | Shaft Type | **NEMA 56** |
| Overall Length | **13.94 in** | Frame Length | **6.81 in** |
| Shaft Diameter | **0.625 in** | Shaft Extension | **1.88 in** |
| Assembly/Box Mounting | **F1 ONLY** | | |
| Outline Drawing | **B-104189LE-681** | Connection Diagram | **EE7335-LE** |

104189LE




| DASH | (C) | BS | | | |
|---|---|---|---|---|---|
| 631 | 13.44 | 4.15 | | | |
| 681 | 13.94 | 4.65 | | | |
| 731 | 14.44 | 5.15 | | | |
| 781 | 14.94 | 5.65 | | | |
| 831 | 15.44 | 6.15 | | | |
| 881 | 15.94 | 6.65 | | | |
| 931 | 16.44 | 7.15 | | | |
| 981 | 16.94 | 7.65 | | | |

| NO. | REVISION | BY & DATE | CHK |
|---|---|---|---|
| 1 | COND. BOX INSTALLED VIEW UPDATED PER ECR-0044571 | UD 10/15/13 | ST |

TOLERANCES UNLESS SPECIFIED

| DEC. | INCHES |
|---|---|
| .X | ±.1 |
| .XX | ±.03 |
| .XXX | ±.005 |
| .XXXX | ±.0005 |
| ANG | ±7'30" |

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

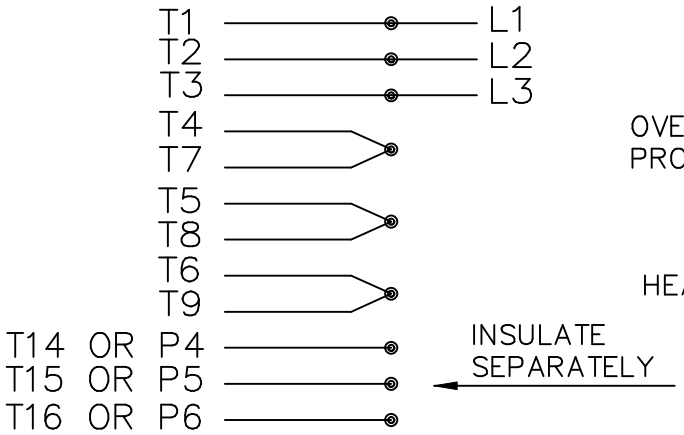
TITLE OUTLINE
56 FR. – EXP. PR. – TEFC – 1ø & 3ø

MAT'L.
FINISH
RFP 06-22-2007
CAD FILE 104189LE
DIST WP

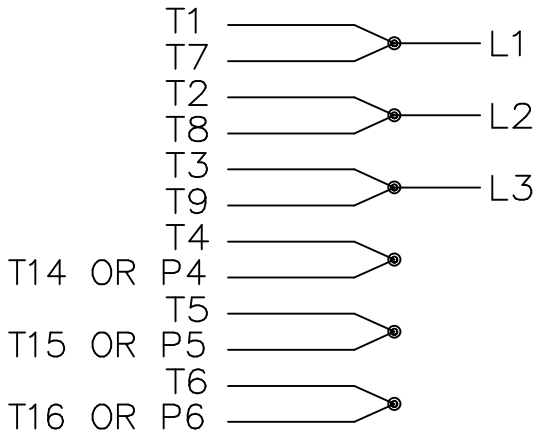
DRAWN RJW 06-22-2007
CHK ML 06-22-2007
APPD GK 06-22-2007
SCALE 1=2
REF
FMF
PREV

SIZE B | DRAWING NO. 104189LE | PAGE OF | REV. 1

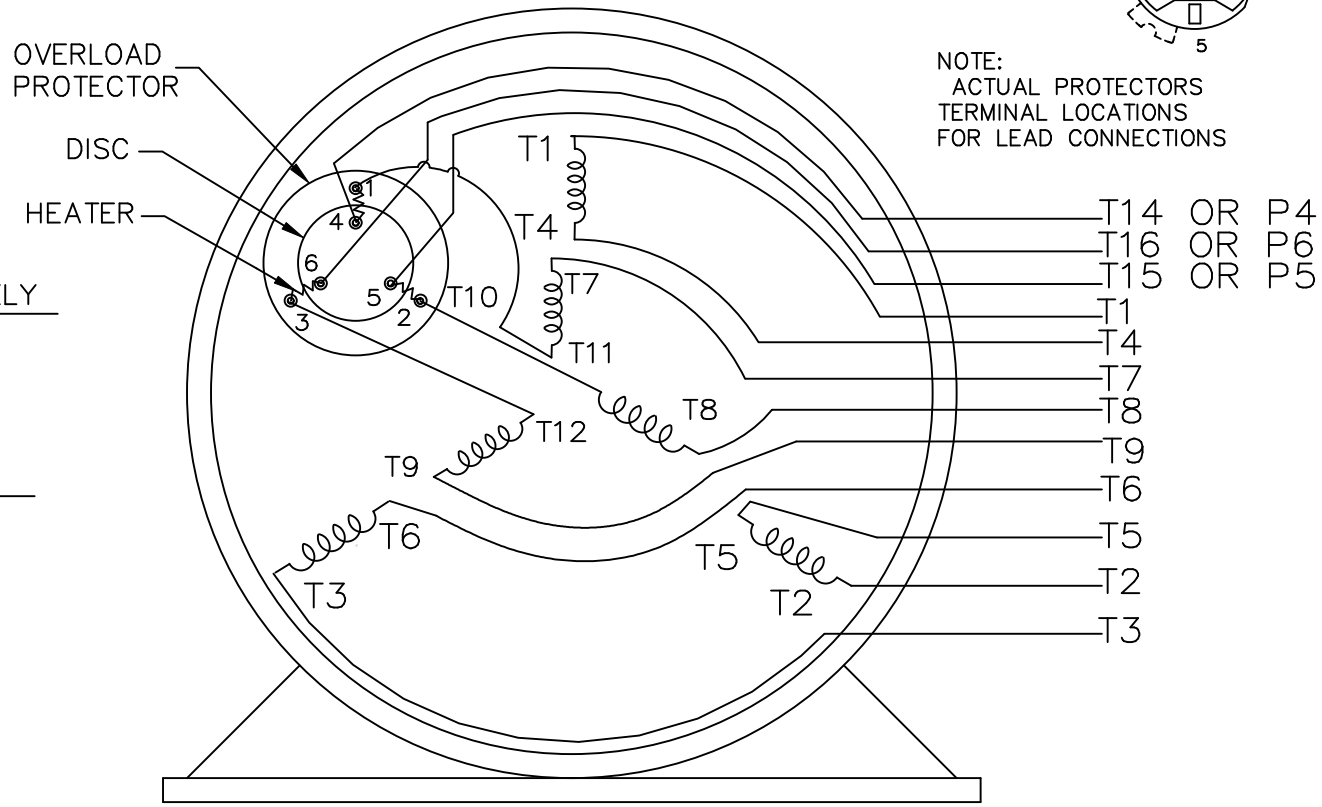
## HIGH VOLTAGE CONNECTIONS

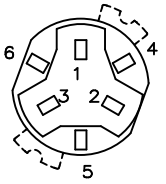



## LOW VOLTAGE CONNECTIONS




## THREE PHASE – DUAL VOLTAGE MOTOR WITH OVERLOAD PROTECTOR




NOTE:
ACTUAL PROTECTORS TERMINAL LOCATIONS FOR LEAD CONNECTIONS

## VIEW OF TERMINAL END

| |
|---|
| T2K |
| T4D |
| T6AN |

| NO. | REVISION | BY & DATE | CHK |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TOLERANCES UNLESS SPECIFIED

| DEC. | INCHES |
|---|---|
| .X | ± – |
| .XX | ± – |
| .XXX | ± – |
| .XXXX | ± – |
| ANG | ± – |

LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES

TITLE CONNECTION DIAGRAM
3Ø– DUAL VOLTAGE W/OVERLOAD PROTECTOR

MAT'L.
FINISH
CAD FILE EE7335_LE

RFP 04–20–2005
DIST WP

| | |
|---|---|
| DRAWN | NJS 04–20–2005 |
| CHK | ML 04–20–2005 |
| APPD | MJS 04–20–2005 |
| SCALE | |
| REF | |
| FMF | |
| PREV | |

SIZE A | DRAWING NO. EE7335–LE | PAGE OF | REV.



7/19/2007 9:27:17 AM -

P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

**DATA VOLTS:** 460

# CERTIFICATION DATA SHEET

**CONN. DIAGRAM:** EE7335-LE **CAT #:** 119425.00
**OUTLINE:** B-104189LE-681
**WINDING:** ZT270 R14 1

## TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.75 | 3600 | 3500 | 56 | EPFC | TFR | K | B |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60/50 | 230/460#190/380 | 3/1.5&2.6/1.3 | ACROSS THE LINE | CONT | B | 1.15 | 40 | 3300 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| F.L. EFF | 80.0 | 3/4 LD EFF | 78.0 | 1/2 LD EFF | 75.0 | GTD EFF | ELECT. TYPE |
| F.L. PF | 83.5 | 3/4 LD PF | 78.0 | 1/2 LD PF | 67.5 | 77.0 | SQ CAGE IND RUN |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (°C) |
|---|---|---|---|---|
| 1.50 LB-FT | 11.0 | 3.5 LB-FT 233% | 5.3 LB-FT 353% | 35 |

| PRESSURE @ 3 | POWER | ROTOR WK² | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|---|---|---|---|---|---|---|
| 68 dBA | 77 dBA | 0.03 LB-FT² | 0 LB-FT² | 10 SEC. | 0 | 32 LB. |

## *** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|---|---|---|---|---|---|---|---|---|
| STANDARD | STANDARD | RIGID | HORIZONTAL | NO | DF CL I GR C&D CL II GF | NO | NONE | BLUE (POWDER) |

| BEARINGS DE | BEARINGS ODE | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|---|---|---|---|---|---|---|---|
| BALL 6203 | BALL 6203 | POLYREX EM | STANDARD 56 | NONE | NONE | 1144 STRESSPROOF (C-223) | ROLLED STEEL |

| THERMOSTATS | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE HEATERS |
|---|---|---|---|---|---|---|
| NONE | AUTOMATIC | NONE | NONE | NONE | FALSE | NA |

| R1 (ohms/ph) | R2 (ohms/ph) | X1 (ohms/ph) | X2 (ohms/ph) | Xm (ohms/ph) | VIBRATION (in/sec) | FLOAT |
|---|---|---|---|---|---|---|
| 11.332 | 5.652 | 15.08 | 17.608 | 406.12 | 0.150 | ODE |

*
**NOTES**
*

**INVERTER TORQUE:** NONE
**INV. HP SPEED RANGE:** NONE

**ENCODER:** NONE
NONE
NONE NONE **PPR**

**BRAKE:** NONE
NONE NONE
**FT-LB:** NA
**VOLTAGE:** NONE **HZ:**
**UL:** NONE

**DATE:** 2/15/2018

# Data Sheet

**Date:** 2/15/2018

119425.00

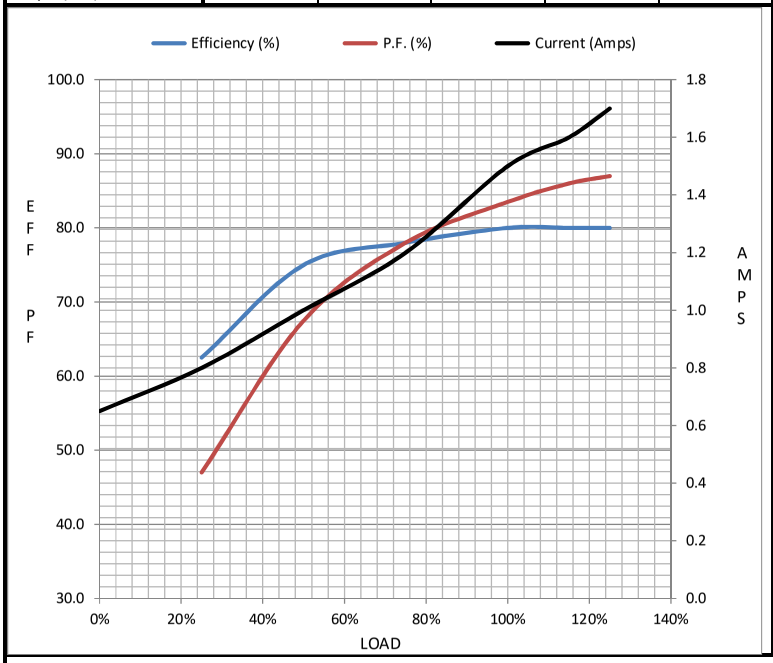
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 0.65 | 0.80 | 1.00 | 1.20 | 1.50 | 1.60 | 1.70 | 11.0 | |
| Torque (ft-lb) | 0.00 | 0.38 | 0.75 | 1.10 | 1.50 | 1.70 | 1.90 | 3.5 | |
| RPM | 3600 | 3570 | 3550 | 3525 | 3500 | 3,490 | 3480 | 0 | |
| Efficiency (%) | | 62.5 | 75.0 | 78.0 | 80.0 | 80.0 | 80.0 | | |
| P.F. (%) | 20.0 | 47.0 | 67.5 | 78.0 | 83.5 | 86.0 | 87.0 | 66.0 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 1800 | 2830 | 3500 | 3600 |
| Current (Amps) | 11.0 | 10.0 | 7.0 | 1.50 | 0.65 |
| Torque (ft-lb) | 3.5 | 3.2 | 5.3 | 1.50 | 0.00 |




## Information Block

| | | |
|---|---|---|
| HP | 1.0 | |
| Sync. RPM | 3600 | |
| Frame | 143 | |
| Enclosure | EPFC | |
| Construction | TFR | |
| Voltage | 230/460#190/380 | V |
| Frequency | 60 | Hz |
| Design | B | |
| LR Code letter | K | |
| Service Factor | 1.15 | |
| Temp Rise @ FL | 35 | ° C |
| Duty | CONT | |
| Ambient | 40 | ° C |
| Elevation | 1,000 | feet |
| Rotor/Shaft wk² | 0.03 | Lb-Ft² |
| Ref Wdg | ZT270 R14 | |
| Sound Pressure @ 1M | 68 | dBA |
| VFD Rating | NONE | |
| Outline Dwg | B-104189LE-681 | |
| Conn. Diag | EE7335-LE | |

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 11.3320 | 5.6520 | 15.0800 | 17.6080 | 406.1200 |

## Speed -Torque Curve