

# PRODUCT INFORMATION PACKET



Model No: 119423.00

Catalog No: 119423.00

Explosion Proof Motor, 1 & 0.75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,  
56C Frame, EPFC



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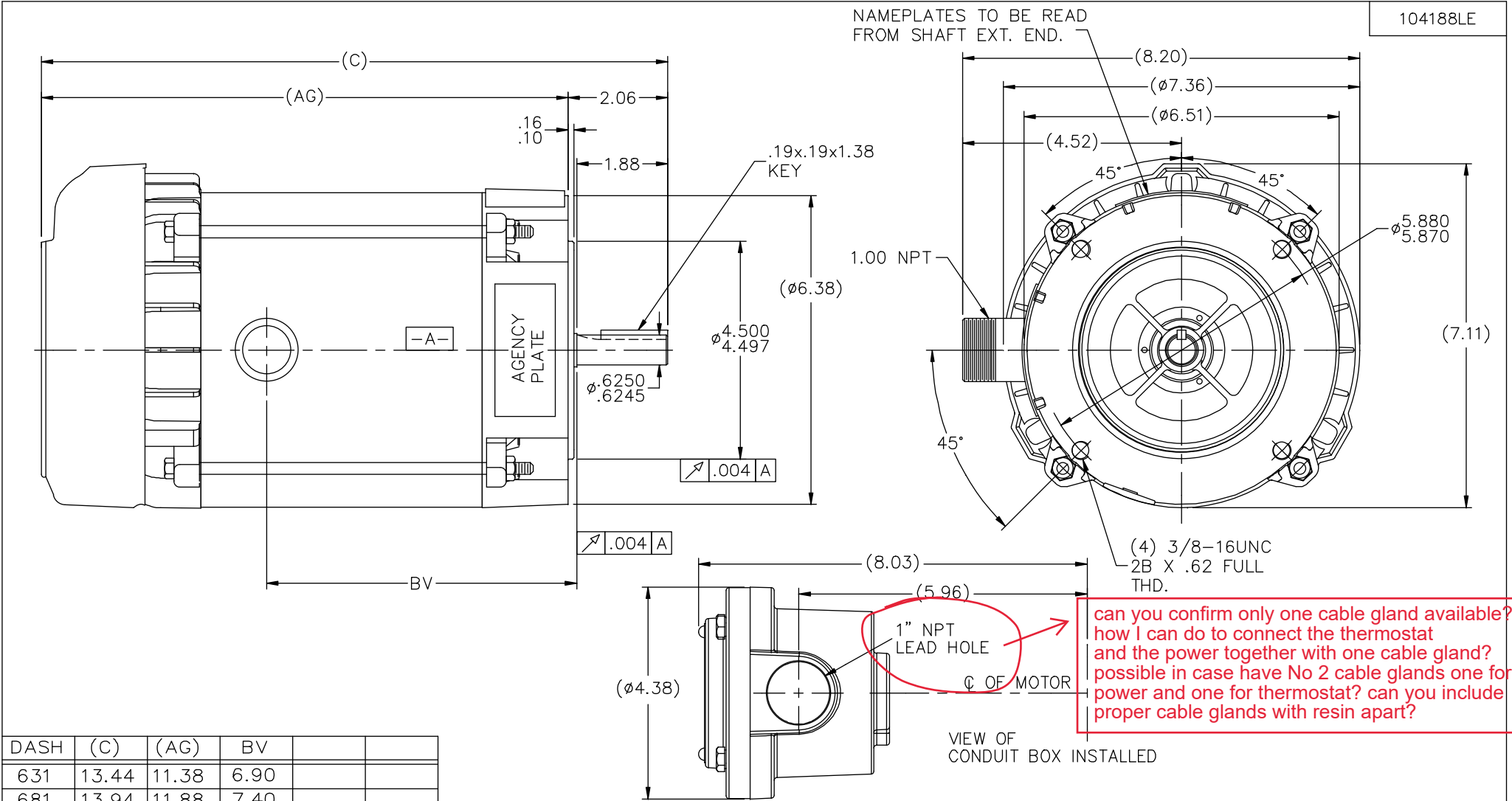
## Nameplate Specifications

|                        |                             |                            |                                            |
|------------------------|-----------------------------|----------------------------|--------------------------------------------|
| Phase                  | 3                           | Output HP                  | 1 & 0.75 Hp                                |
| Output KW              | 0.75 & 0.56 kW              | Voltage                    | 230/460 & 190/380 V                        |
| Speed                  | 1725 & 1425 rpm             | Service Factor             | 1.0 & 1.0                                  |
| Frame                  | 56C                         | Enclosure                  | Explosion Proof Fan cooled                 |
| Thermal Protection     | Thermostat                  | Efficiency                 | 85.5 & 84 %                                |
| Ambient Temperature    | 40 °C                       | Frequency                  | 60 & 50 Hz                                 |
| Current                | 3.3/1.65 & 3.1/1.55 A       | Power Factor               | 68                                         |
| Duty                   | Continuous                  | Insulation Class           | B                                          |
| Design Code            | B                           | KVA Code                   | P                                          |
| Drive End Bearing Size | 6203                        | Opp Drive End Bearing Size | 6203                                       |
| UL                     | UL Listed And CSA Certified | CSA                        | Y                                          |
| CE                     | N                           | IP Code                    | 54                                         |
| Number of Speeds       | 1                           | Hazardous Location         | DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C |

## Technical Specifications

|                       |                              |                       |                  |
|-----------------------|------------------------------|-----------------------|------------------|
| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method       | Line Or Inverter |
| Poles                 | 4                            | Rotation              | Reversible       |
| Resistance Main       | 11.8 Ohms                    | Mounting              | Round            |
| Motor Orientation     | Horizontal                   | Drive End Bearing     | Ball             |
| Opp Drive End Bearing | Ball                         | Frame Material        | Rolled Steel     |
| Shaft Type            | NEMA 56                      | Overall Length        | 15.94 in         |
| Frame Length          | 8.81 in                      | Shaft Diameter        | 0.625 in         |
| Shaft Extension       | 1.88 in                      | Assembly/Box Mounting | F1 ONLY          |
| Inverter Load         | VARIABLE 10:1                |                       |                  |
| Connection Drawing    | A-EE7308T-LE                 | Outline Drawing       | 104188LE-881     |



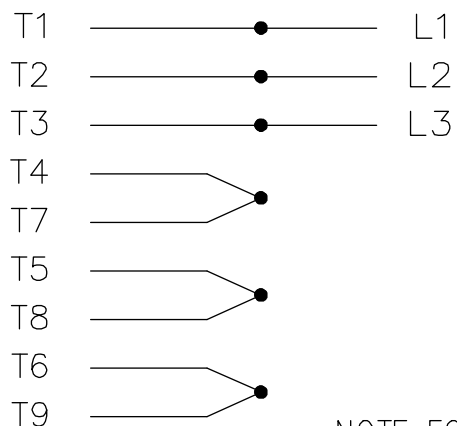


| DASH | (C)   | (AG)  | BV    |  |  |
|------|-------|-------|-------|--|--|
| 631  | 13.44 | 11.38 | 6.90  |  |  |
| 681  | 13.94 | 11.88 | 7.40  |  |  |
| 731  | 14.44 | 12.38 | 7.90  |  |  |
| 781  | 14.94 | 12.88 | 8.40  |  |  |
| 831  | 15.44 | 13.38 | 8.90  |  |  |
| 881  | 15.94 | 13.88 | 9.40  |  |  |
| 931  | 16.44 | 14.38 | 9.90  |  |  |
| 981  | 16.94 | 14.88 | 10.40 |  |  |

|                                                                                                                                                                                                                                  |                                                  |           |          | TOLERANCES UNLESS SPECIFIED |            |  | ELECTRIC MOTORS<br>GEARMOTORS<br>AND DRIVES   | DRAWN RJW 06-22-2007 |      |            |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------|----------|-----------------------------|------------|---------------------------------------------------------------------------------------|-----------------------------------------------|----------------------|------|------------|------|
|                                                                                                                                                                                                                                  |                                                  |           |          | DEC.                        | INCHES     |                                                                                       |                                               | CHK                  | ML   | 06-22-2007 |      |
|                                                                                                                                                                                                                                  |                                                  |           |          | .X                          | ±.1        |                                                                                       |                                               | APPD                 | GK   | 06-22-2007 |      |
|                                                                                                                                                                                                                                  |                                                  |           |          | .XX                         | ±.03       |                                                                                       |                                               |                      |      |            |      |
|                                                                                                                                                                                                                                  |                                                  |           |          | .XXX                        | ±.005      |                                                                                       |                                               |                      |      |            |      |
| 01                                                                                                                                                                                                                               | COND. BOX INSTALLED VIEW UPDATED PER ECR-0044571 | UD        | 10/10/13 | ST                          | .XXXX      | ±.0005                                                                                | TITLE OUTLINE - 'C' FACE<br>56 FR. - EXP. PR. |                      |      |            | REF  |
| NO.                                                                                                                                                                                                                              | REVISION                                         | BY & DATE | CHK      | ANG                         | ±7°30"     | 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                         | 06-22-2007 | CAD FILE 104188LE                                                                     | SIZE                                          | DRAWING NO.          | PAGE | OF         | REV. |
|                                                                                                                                                                                                                                  |                                                  |           |          | DIST                        | WP         |                                                                                       | B                                             | 104188LE             |      |            | 01   |

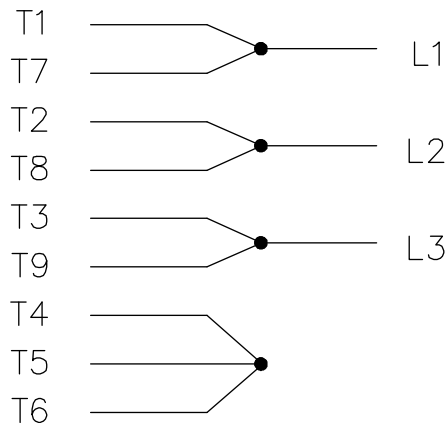
can you confirm only one cable gland available?  
how I can do to connect the thermostat  
and the power together with one cable gland?  
possible in case have No 2 cable glands one for  
power and one for thermostat? can you include  
proper cable glands with resin apart?

# HIGH VOLTAGE



NOTE FOR FACTORY USE ONLY:  
TO SURGE TEST FOR COMMON CONNECT:  
HIGH VOLT: CONNECT P1 TO T1  
THEN P2 TO L1  
LOW VOLT: CONNECT P1 TO T1 & T7,  
THEN P2 TO L1

# LOW VOLTAGE

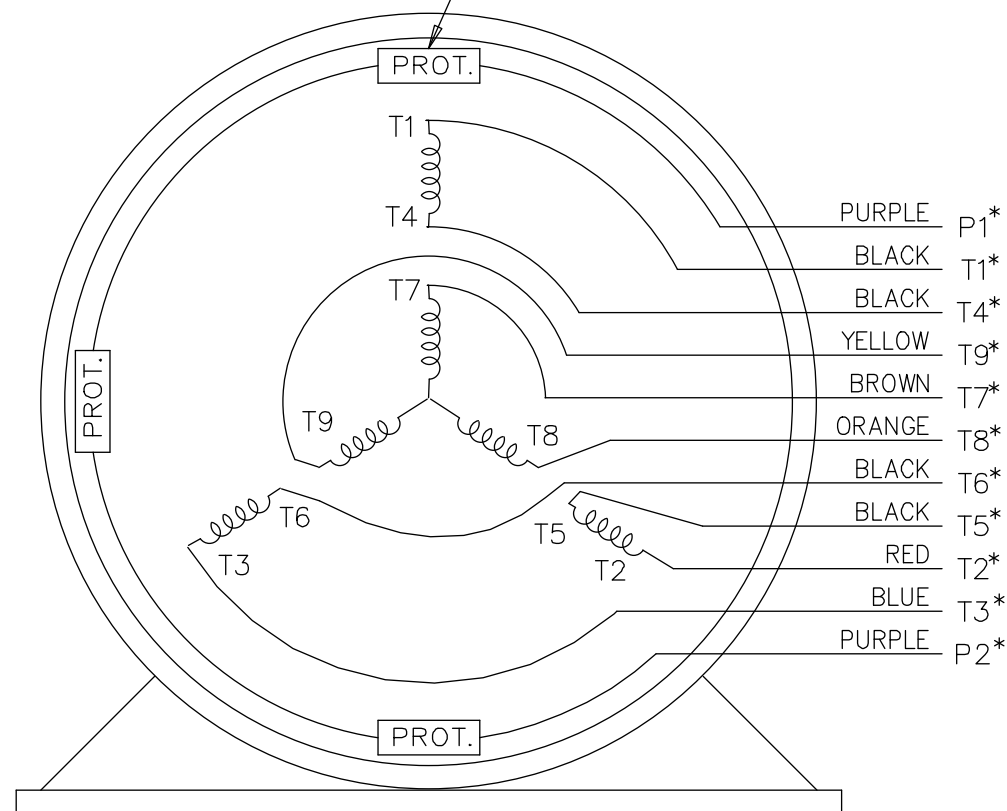


\* USE LEADS AS PER PLANT STANDARD IRRWSPECTIVE OF THEIR COLOUR.

# THREE PHASE DUAL VOLTAGE MOTOR

EE7308T-LE

THREMO-PROTECTORS  
CONNECTED IN SERIES.



VIEW OF TERMINAL END

|                                                                                                                                                                                                                                        |                                        |                |               |                                |        |                                                                                       |                                             |  |                      |             |            |    |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------|---------------|--------------------------------|--------|---------------------------------------------------------------------------------------|---------------------------------------------|--|----------------------|-------------|------------|----|------|
|                                                                                                                                                                                                                                        |                                        |                |               | TOLERANCES<br>UNLESS SPECIFIED |        |  | ELECTRIC MOTORS<br>GEARMOTORS<br>AND DRIVES |  | DRAWN TJB 05-07-2002 |             |            |    |      |
| 05                                                                                                                                                                                                                                     | ADDED * NOTE PER ECN # 26921           | UD 01-30-2013  | JD            | DEC.                           | INCHES |                                                                                       |                                             |  | CHK                  | ML          | 05-08-2002 |    |      |
| 04                                                                                                                                                                                                                                     | ADDED COLORS TO "T & P" LEADS CN 40494 | MSG 08-08-2006 | ML            | .X                             | ±.1    |                                                                                       |                                             |  | APPD TB 05-08-2002   |             |            |    |      |
| 03                                                                                                                                                                                                                                     | RE-ISSUE                               | NJS 04-21-2004 | JET           | .XX                            | ±.02   | TITLE CONNECTION DIAGRAM<br>3 PHASE – DUAL VOLTAGE MOTOR                              |                                             |  |                      | SCALE       | 1=1        |    |      |
| 02                                                                                                                                                                                                                                     | REDRAWN                                | TAT 04-20-2004 | ML            | .XXX                           | ±.005  |                                                                                       |                                             |  |                      | REF         |            |    |      |
| 01                                                                                                                                                                                                                                     | NEW DRAWING CN 34708                   | TJB 05-08-2002 | ML            | .XXXX                          | ±.0005 | MAT'L.                                                                                |                                             |  |                      | FMF         |            |    |      |
| NO.                                                                                                                                                                                                                                    | REVISION                               | BY & DATE      | CHK           | ANG                            | ±7'30" | FINISH                                                                                |                                             |  |                      | PREV        |            |    |      |
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|                                                                                                                                                                                                                                        |                                        |                | DIST LB-WP-LE |                                |        |                                                                                       |                                             |  | A                    | EE7308T-LE  |            | 05 |      |



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

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308T-LE  
OUTLINE: B-104188LE-881  
WINDING: ZT4257

CAT #: 119423.00

FR 3

### TYPICAL MOTOR PERFORMANCE DATA

| HP | KW   | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|----|------|----------|--------|-------|-----------|------|----------|--------|
| 1  | 0.75 | 1800     | 1765   | 56C   | TEFC      | TFR  | P        | A      |

| PH | HZ    | VOLTS           | AMPS              | START TYPE      | DUTY | INSL | S.F. | AMB | ELEV. |
|----|-------|-----------------|-------------------|-----------------|------|------|------|-----|-------|
| 3  | 60/50 | 230/460#190/380 | 3.3/1.65&3.1/1.55 | ACROSS THE LINE | CONT | B    | 1.15 | 40  | 3300  |

| F.L. EFF | 85.5 | 3/4 LD EFF | 84.0 | 1/2 LD EFF | 81.5 | GTD EFF | 82.5 | ELECT. TYPE | SQ CAGE IND RUN |
|----------|------|------------|------|------------|------|---------|------|-------------|-----------------|
| F.L. PF  | 68.0 | 3/4 LD PF  | 59.5 | 1/2 LD PF  | 46.5 |         |      |             |                 |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE     | B.D. TORQUE     | F.L. RISE (°C) |
|-------------|-----------------|-----------------|-----------------|----------------|
| 3.0 LB-FT   | 17.0            | 13.7 LB-FT 457% | 16.8 LB-FT 560% | 30             |

| PRESSURE @ 3 | POWER  | ROTOR WK²   | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|--------------|--------|-------------|---------------|-----------------|-------------|-----------|
| 62 dBA       | 71 dBA | 0.12 LB-FT² | 0 LB-FT²      | 15 SEC.         | 2           | 48 LB.    |

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

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

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

| THERMOSTATS  | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE HEATERS |
|--------------|------------|-----------|-----------|-------------|---------|---------------|
| TSTATS (N/C) | NOT        | NONE      | NONE      | NONE        | FALSE   | NA            |

| R1 (ohms/ph) | R2 (ohms/ph) | X1 (ohms/ph) | X2 (ohms/ph) | Xm (ohms/ph) | VIBRATION (in/sec) | FLOAT |
|--------------|--------------|--------------|--------------|--------------|--------------------|-------|
| 2.425        | 1.602        | 3.105        | 2.772        | 75.863       | 0.150              | ODE   |

|                                 |  |                                                                                                     |
|---------------------------------|--|-----------------------------------------------------------------------------------------------------|
| *<br>N<br>O<br>T<br>E<br>S<br>* |  | INVERTER TORQUE: NONE<br>INV. HP SPEED RANGE: NONE<br><br>ENCODER: NONE<br>NONE<br>NONE<br>NONE PPR |
|                                 |  |                                                                                                     |
|                                 |  |                                                                                                     |
|                                 |  |                                                                                                     |
|                                 |  |                                                                                                     |

|                 |                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------|
| DATE: 1/17/2018 | BRAKE: NONE<br>NONE<br>NONE<br>FT-LB: NA<br>VOLTAGE: NONE<br>HZ:<br>UL: Y-(LEESON UL REC) |
|-----------------|-------------------------------------------------------------------------------------------|

## Data Sheet

Date: 1/17/2018

119423.00



Data @ 460 V

## Motor Load Data

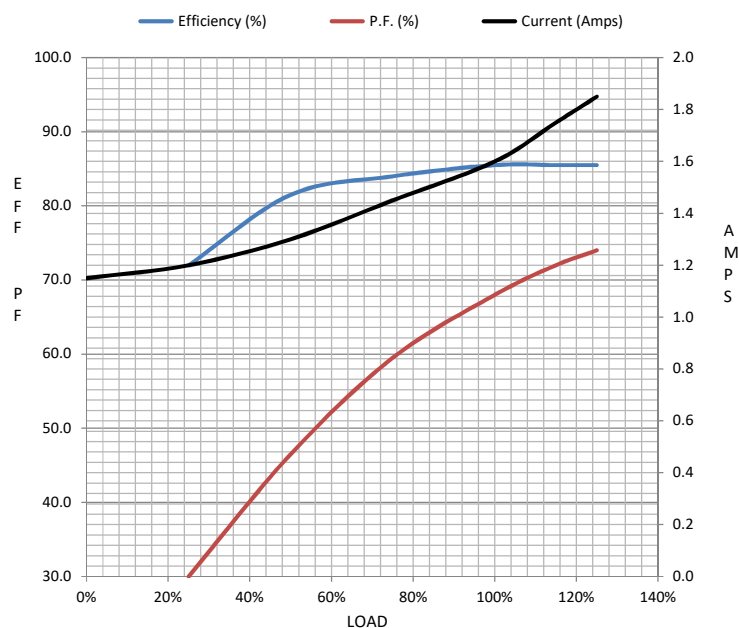
| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115% | 125% | LR   |  |
|----------------|------|------|------|------|------|------|------|------|--|
| Current (Amps) | 1.15 | 1.20 | 1.30 | 1.45 | 1.60 | 1.75 | 1.85 | 17.0 |  |
| Torque (ft-lb) | 0.00 | 0.75 | 1.50 | 2.25 | 3.0  | 3.5  | 3.8  | 13.7 |  |
| RPM            | 1800 | 1790 | 1785 | 1775 | 1765 | 1760 | 1755 | 0    |  |
| Efficiency (%) |      | 72.0 | 81.5 | 84.0 | 85.5 | 85.5 | 85.5 |      |  |
| P.F. (%)       | 7.5  | 30.0 | 46.5 | 59.5 | 68.0 | 72.0 | 74.0 | 69.5 |  |

## Motor Speed Data

|                | LR   | Pull-Up | BD   | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 115     | 1270 | 1765  | 1800 |
| Current (Amps) | 17.0 | 16.0    | 11.0 | 1.60  | 1.15 |
| Torque (ft-lb) | 13.7 | 12.5    | 16.8 | 3.0   | 0.00 |

## Information Block

|                            |                 |        |        |         |
|----------------------------|-----------------|--------|--------|---------|
| HP                         | 1.0             |        |        |         |
| Sync. RPM                  | 1800            |        |        |         |
| Frame                      | 143             |        |        |         |
| Enclosure                  | TEFC            |        |        |         |
| Construction               | TFR             |        |        |         |
| Voltage                    | 230/460#190/380 | V      |        |         |
| Frequency                  | 60              | Hz     |        |         |
| Design                     | A               |        |        |         |
| LR Code letter             | P               |        |        |         |
| Service Factor             | 1.15            |        |        |         |
| Temp Rise @ FL             | 30              | ° C    |        |         |
| Duty                       | CONT            |        |        |         |
| Ambient                    | 40              | ° C    |        |         |
| Elevation                  | 1,000           | feet   |        |         |
| Rotor/Shaft wk²            | 0.12            | Lb-Ft² |        |         |
| Ref Wdg                    | ZT4257 FR       |        |        |         |
| Sound Pressure @ 1M        | 62              | dBA    |        |         |
| VFD Rating                 | NONE            |        |        |         |
| Outline Dwg                | B-104188LE-881  |        |        |         |
| Conn. Diag                 | A-EE7308T-LE    |        |        |         |
| Additional Specifications: |                 |        |        |         |
| 0                          |                 |        |        |         |
| 0                          |                 |        |        |         |
| EQUIV CKT (OHMS / PHASE)   |                 |        |        |         |
| R1                         | R2              | X1     | X2     | Xm      |
| 2.4250                     | 1.6020          | 3.1050 | 2.7720 | 75.8630 |



## Speed - Torque Curve

