

# PRODUCT INFORMATION PACKET



Model No: LM32679

Catalog No: LM32679

General Purpose Motor, 150 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 415 V, 1800 & 1500 RPM, 445TS Frame,  
TEFC



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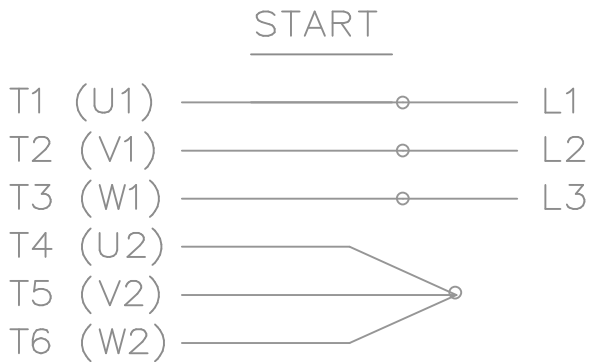
## Nameplate Specifications

|                        |                  |                            |                             |
|------------------------|------------------|----------------------------|-----------------------------|
| Phase                  | 3                | Output HP                  | 150 & 150 Hp                |
| Output KW              | 112.0 & 112.0 kW | Voltage                    | 460 & 415 V                 |
| Speed                  | 1785 & 1485 rpm  | Service Factor             | 1.15 & 1.0                  |
| Frame                  | 445TS            | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection    | Efficiency                 | 96.2 & 95.4 %               |
| Ambient Temperature    | 40 °C            | Frequency                  | 60 & 50 Hz                  |
| Current                | 168 & 189 A      | Power Factor               | 87                          |
| Duty                   | Continuous       | Insulation Class           | F                           |
| Design Code            | B                | KVA Code                   | G                           |
| Drive End Bearing Size | 318              | Opp Drive End Bearing Size | 315                         |
| UL                     | Recognized       | CSA                        | Y                           |
| CE                     | Y                | IP Code                    | 43                          |
| Number of Speeds       | 1                |                            |                             |

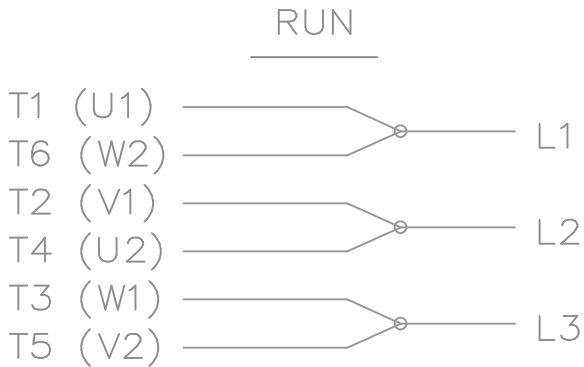
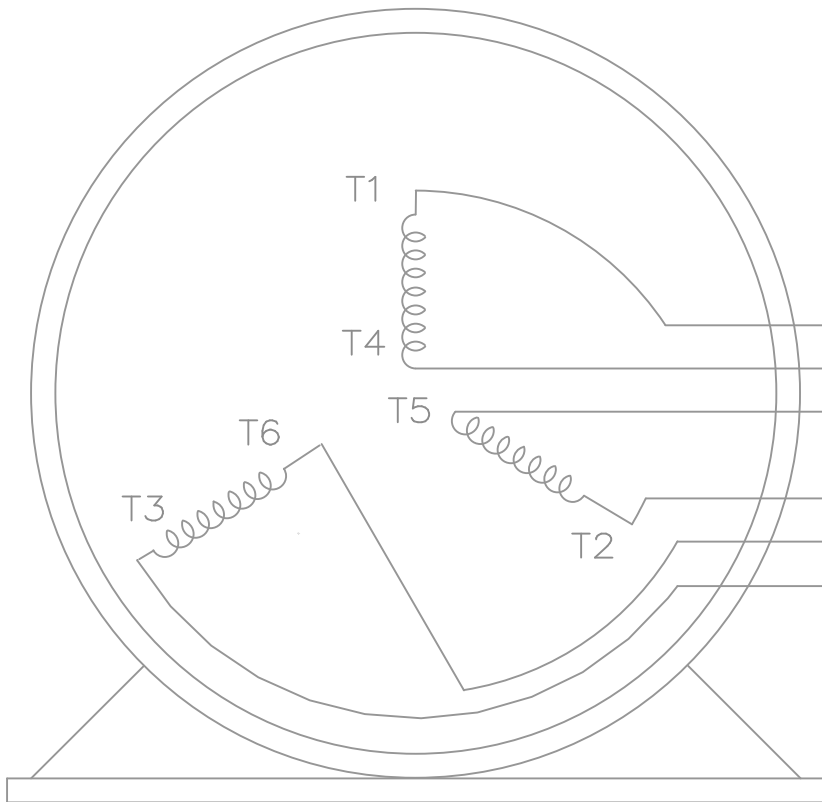
## Technical Specifications

|                       |                             |                       |                     |
|-----------------------|-----------------------------|-----------------------|---------------------|
| Electrical Type       | Squirrel Cage Induction Run | Starting Method       | Wye Start Delta Run |
| Poles                 | 4                           | Rotation              | Reversible          |
| Resistance Main       | .026 Ohms                   | Mounting              | Rigid Base          |
| Motor Orientation     | Horizontal                  | Drive End Bearing     | Ball                |
| Opp Drive End Bearing | Ball                        | Frame Material        | Rolled Steel        |
| Shaft Type            | TS                          | Overall Length        | 39.49 in            |
| Frame Length          | 23.17 in                    | Shaft Diameter        | 2.375 in            |
| Shaft Extension       | 4.75 in                     | Assembly/Box Mounting | F1 ONLY             |
| Connection Drawing    | A-EE7340-LN                 | Outline Drawing       | XK2F1SS2-2317       |





THREE PHASE — Y START  
 Δ RUN MOTOR




T1 (U1)  
 T4 (U2)  
 T5 (V2)  
 T2 (V1)  
 T6 (W2)  
 T3 (W1)

T6CK  
 T6BM  
 T4CC  
 T2DL  
 T4C

NOTE:  
 IEC LEAD MARKINGS ARE NOTED  
 IN PARENTHESES

VIEW OF TERMINAL END

|  |                                       |                |               |                                |                    |   |                      |                          |              |
|--|---------------------------------------|----------------|---------------|--------------------------------|--------------------|---|----------------------|--------------------------|--------------|
|  |                                       |                |               | TOLERANCES<br>UNLESS SPECIFIED |                    |  | DRAWN BLR 10-04-1999 |                          |              |
|  |                                       |                |               | DEC.                           | INCHES             |   | CHK DRS 10-04-1999   |                          |              |
|  |                                       |                |               | .X                             | ±.1                |   | APPD TB 10-04-1999   |                          |              |
| 3  | REVISED TO MATCH M.E. ORIGINAL        | TAT 07-25-2005 | ML            | .XX                            | ±.02               | TITLE CONNECTION DIAGRAM<br>3ø – WYE START DELTA RUN                                  | SCALE 1=1            |                          |              |
| 2  | REVISED DRAWING MISTAKE CN 29200-2980 | ERH 05-15-2003 | ML            | .XXX                           | ±.005              |   | REF                  |                          |              |
| 1  | NEW DRAWING                           | BLR 10-09-1999 |               | .XXXX                          | ±.0005             | MAT'L.  | FMF                  |                          |              |
| 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<br>IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED<br>THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT |                                       |                | RFP           |                                | CAD FILE ee7340_In |   | SIZE<br>A            | DRAWING NO.<br>EE7340-LN | PAGE OF<br>3 |
|  |                                       |                | DIST WA-LB-SB |                                |                    |   |                      |                          |              |



**2100 WASHINGTON ST.  
GRAFTON, WI  
PH. 262-277-8810**

**CONN. DIAGRAM:** A-EE7340-LN

**MODEL #:** LM32679

**OUTLINE:** XK2F1SS2-2317

**WINDING #:** L4454041 1

**MOUNTING:** F1 ONLY

**TYPICAL MOTOR PERFORMANCE DATA**

| HP      | kW      | SYNC. RPM | F.L. RPM  | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---------|---------|-----------|-----------|-------|-----------|----------|--------|
| 150&150 | 112&112 | 1800      | 1785&1485 | 445TS | TEFC      | G        | B      |

| PH | Hz    | VOLTS   | AMPS    | START TYPE          | DUTY       | INSL | S.F.     | AMB°C |
|----|-------|---------|---------|---------------------|------------|------|----------|-------|
| 3  | 60/50 | 460&415 | 168&189 | WYE START DELTA RUN | CONTINUOUS | F1   | 1.15/1.0 | 40    |

|                       |           |                      |      |                      |      |                 |  |                   |
|-----------------------|-----------|----------------------|------|----------------------|------|-----------------|--|-------------------|
| <b>FULL LOAD EFF:</b> | 96.2&95.4 | <b>3/4 LOAD EFF:</b> | 96.2 | <b>1/2 LOAD EFF:</b> | 95.4 | <b>GTD. EFF</b> |  | <b>ELEC. TYPE</b> |
| <b>FULL LOAD PF:</b>  | 87&86.5   | <b>3/4 LOAD PF:</b>  | 85   | <b>1/2 LOAD PF:</b>  | 79   | 95.4            |  | SQ CAGE IND RUN   |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE     | B.D. TORQUE      | F.L. RISE°C |
|-------------|-------------------|-----------------|------------------|-------------|
| 441 LB-FT   | 1085              | 935 LB-FT 212 % | 1040 LB-FT 236 % | 55          |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|------------|-----------|-----------------|---------------|-------------------|
| 0 dBA                  | 10 dBA      | 0 LB-FT^2  | 0 LB-FT^2 | 0 SEC.          | 0             | - LBS.            |

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

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT          |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|----------------|
| STANDARD        | STANDARD         | RIGID      | HORIZONTAL  | FALSE       | NONE               | FALSE      | NONE    | GRAY - LINCOLN |

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL          | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE       | ODE  |            |            |            |             |                         |                |
| BALL     | BALL | POLYREX EM | TS         | NONE       | NONE        | 1045 HOT ROLLED (C-204) | ROLLED STEEL   |
| 318      | 315  |            |            |            |             |                         |                |

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

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

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

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

## Data Sheet

Date: 1/23/2018

LM32679



Data @ 460 V

## Motor Load Data

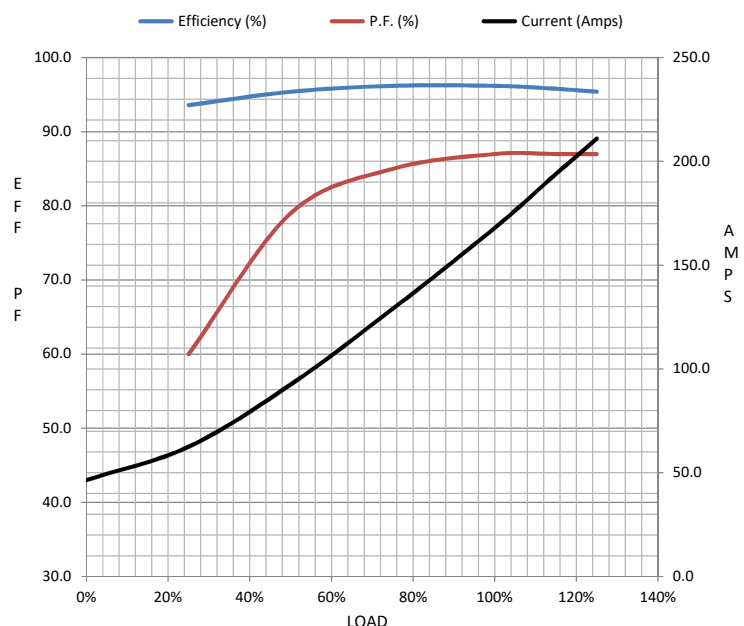
| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR    |  |
|----------------|------|------|------|------|------|-------|------|-------|--|
| Current (Amps) | 46.5 | 62.5 | 92.5 | 129  | 168  | 194   | 211  | 1,085 |  |
| Torque (ft-lb) | 0.00 | 110  | 220  | 330  | 441  | 508   | 553  | 935   |  |
| RPM            | 1800 | 1797 | 1793 | 1790 | 1785 | 1,784 | 1782 | 0     |  |
| Efficiency (%) |      | 93.6 | 95.4 | 96.2 | 96.2 | 95.8  | 95.4 |       |  |
| P.F. (%)       | 4.5  | 60.0 | 79.0 | 85.0 | 87.0 | 87.0  | 87.0 | 33.5  |  |

## Motor Speed Data

|                | LR    | Pull-Up | BD    | Rated | Idle |
|----------------|-------|---------|-------|-------|------|
| Speed (RPM)    | 0     | 900     | 1725  | 1785  | 1800 |
| Current (Amps) | 1,085 | 977     | 575   | 168   | 46.5 |
| Torque (ft-lb) | 935   | 888     | 1,040 | 441   | 0.00 |

## Information Block

|                            |               |        |        |        |
|----------------------------|---------------|--------|--------|--------|
| HP                         | 150.0         |        |        |        |
| Sync. RPM                  | 1800          |        |        |        |
| Frame                      | 445           |        |        |        |
| Enclosure                  | TEFC          |        |        |        |
| Construction               | TFR           |        |        |        |
| Voltage                    | 460#415       | V      |        |        |
| Frequency                  | 60            | Hz     |        |        |
| Design                     | A             |        |        |        |
| LR Code letter             | G             |        |        |        |
| Service Factor             | 1.15          |        |        |        |
| Temp Rise @ FL             | 55            | ° C    |        |        |
| Duty                       | CONT          |        |        |        |
| Ambient                    | 40            | ° C    |        |        |
| Elevation                  | 1,000         | feet   |        |        |
| Rotor/Shaft wk²            | 0.00          | Lb-Ft² |        |        |
| Ref Wdg                    | L4454041      | NONE   |        |        |
| Sound Pressure @ 1M        | 999           | dBA    |        |        |
| VFD Rating                 | NONE          |        |        |        |
| Outline Dwg                | XK2F1SS2-2317 |        |        |        |
| Conn. Diag                 | A-EE7340-LN   |        |        |        |
| Additional Specifications: |               |        |        |        |
| 0                          |               |        |        |        |
| 0                          |               |        |        |        |
| EQUIV CKT (OHMS / PHASE)   |               |        |        |        |
| R1                         | R2            | X1     | X2     | Xm     |
| 0.0210                     | 0.0130        | 0.1630 | 0.2150 | 5.6700 |



## Speed - Torque Curve

