

PRODUCT INFORMATION PACKET



Model No: LM18375
Catalog No: LM18375
75 HP Special Voltage Motor, 3 phase, 1800 RPM, 575 V, 365T Frame, TEFC
Special Voltage Motors



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Nameplate Specifications

| | | | |
|------------------------|-------------------|----------------------------|------------------------------------|
| Output HP | 75 Hp | Output KW | 56.0 kW |
| Frequency | 60 Hz | Voltage | 575 V |
| Current | 71.0 A | Speed | 1782 rpm |
| Service Factor | 1.25 | Phase | 3 |
| Efficiency | 95.4 % | Power Factor | 81.5 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Frame | 365T | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6313 | Opp Drive End Bearing Size | 6311 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 43 |
| Number of Speeds | 1 | | |

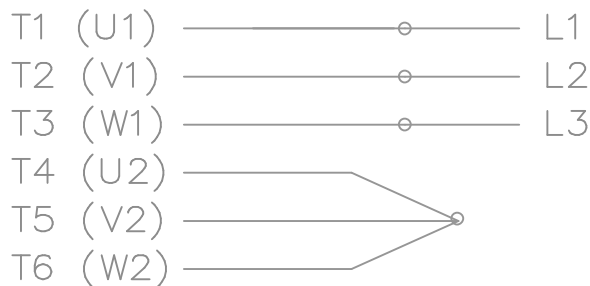
Technical Specifications

| | | | |
|-----------------------|------------------------------------|-----------------------|----------------------------|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Wye Start Delta Run |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | .055 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | T | Overall Length | 32.90 in |
| Frame Length | 17.70 in | Shaft Diameter | 2.375 in |
| Shaft Extension | 5.88 in | Assembly/Box Mounting | F1 Only |
| Connection Drawing | A-EE7340-LN | Outline Drawing | XH2F1SS1-1770 |

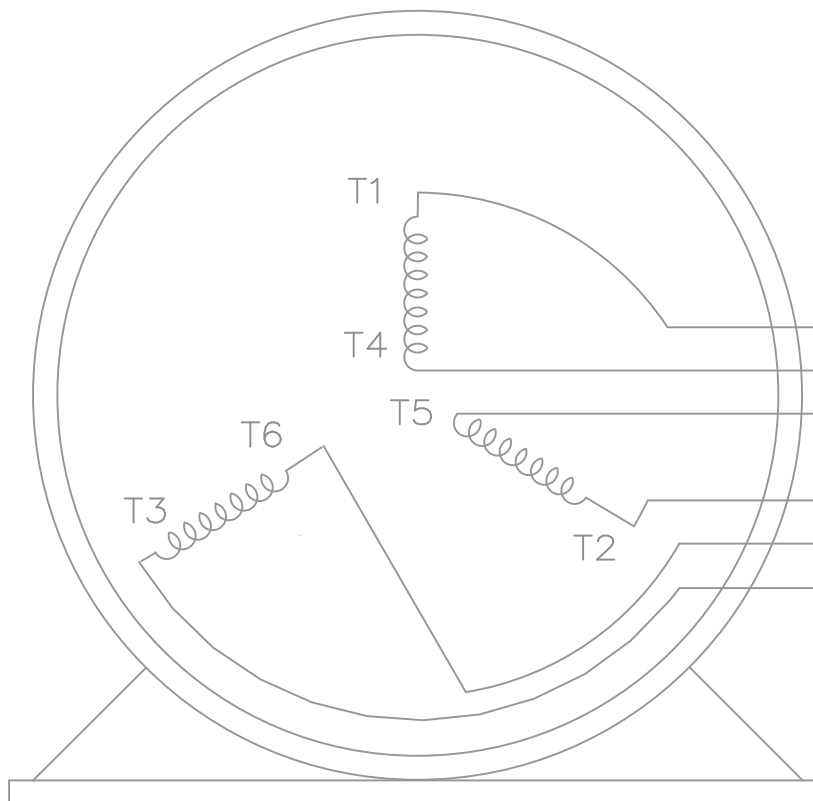
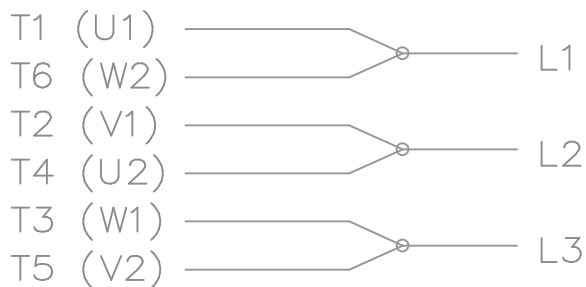
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THREE PHASE – Y START
Δ RUN MOTOR

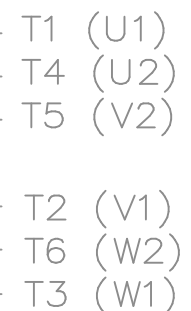
START



RUN




VIEW OF TERMINAL END



T6CK
T6BM
T4CC
T2DL
T4C

NOTE:
IEC LEAD MARKINGS ARE NOTED
IN PARENTHESES

| | | | | TOLERANCES 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 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 | | FMF | | |
| NO. | REVISION | BY & DATE | CHK | ANG | ±'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 | CAD FILE ee7340_In | | SIZE | DRAWING NO. PAGE OF | REV. |
| | | | | DIST | WA-LB-SB | | A | EE7340-LN | 3 |

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DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
 OUTLINE: XH2F1SS1-1770
 WINDING: L3654028

CAT #: LM18375

NONE 3

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|----|----|----------|--------|-------|-----------|------|----------|--------|
| 75 | 56 | 1800 | 1782 | 365T | TEFC | TFR | G | B |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
|----|----|-------|------|--------------------|------|------|------|-----|-------|
| 3 | 60 | 575 | 71 | VYE START DELTA RU | CONT | F | 1.15 | 40 | 3300 |

| F.L. EFF | 95.4 | 3/4 LD EFF | 95.4 | 1/2 LD EFF | 94.5 | GTD EFF | ELECT. TYPE |
|----------|------|------------|------|------------|------|---------|-----------------|
| F.L. PF | 81.5 | 3/4 LD PF | 77.5 | 1/2 LD PF | 68.0 | 94.5 | SQ CAGE IND RUN |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (°C) |
|-------------|-----------------|----------------|----------------|----------------|
| 221 LB-FT | 466 | 545 LB-FT 247% | 577 LB-FT 261% | 85 |

| PRESSURE @ 3 | POWER | ROTOR WK² | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|--------------|----------|-------------|---------------|-----------------|-------------|-----------|
| 999 dBA | 1008 dBA | 0.00 LB-FT² | 0 LB-FT² | 0 SEC. | 0 | 0 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 | NONE | NO | NONE | GRAY - LINCOLN |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE | ODE | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | ROLLED STEEL |
| BALL | BALL | | | | | | |
| 6313 | 6311 | | | | | | |

| THERMOSTATS | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE HEATERS |
|-------------|------------|-----------|-----------|-------------|---------|---------------|
| NONE | 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 |
|--------------|--------------|--------------|--------------|--------------|--------------------|-------|
| 0.065 | 0.047 | 0.467 | 0.597 | 11.931 | 0.150 | ODE |

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

| | | | | | | |
|-------------------------|---------------|--|--|--|--|--|
| DATE: 1/24/2018 | BRAKE: NONE | | | | | |
| | NONE | | | | | |
| | FT-LB: NA | | | | | |
| | VOLTAGE: NONE | | | | | |
| UL: V-INS, CONST UL REC | | | | | | |

Data Sheet

Date: 1/24/2018

LM18375



Data @ 575 V

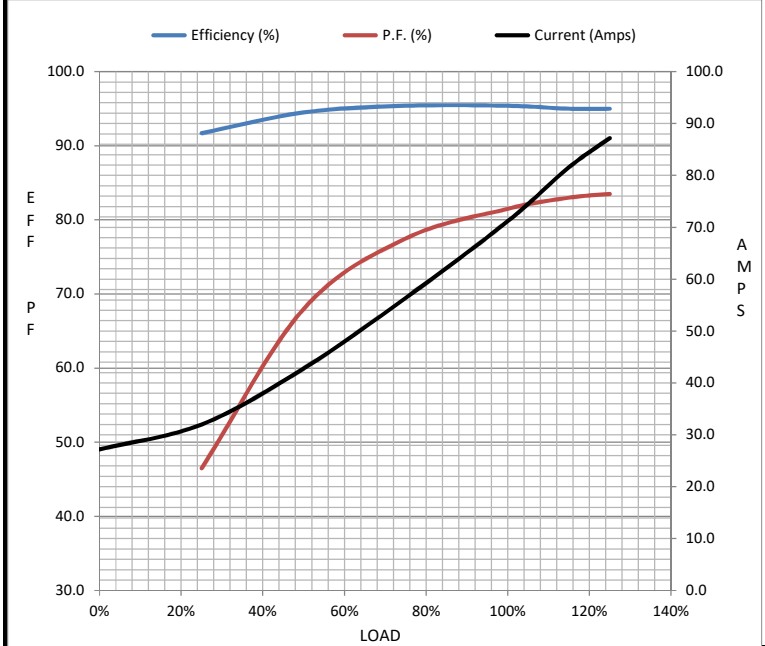
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 27.2 | 32.0 | 42.8 | 56.4 | 71.2 | 81.6 | 87.2 | 466 |
| Torque (ft-lb) | 0.00 | 55.0 | 110 | 165 | 221 | 255 | 277 | 545 |
| RPM | 1800 | 1796 | 1791 | 1786 | 1782 | 1.778 | 1776 | 0 |
| Efficiency (%) | | 91.7 | 94.5 | 95.4 | 95.4 | 95.0 | 95.0 | |
| P.F. (%) | 3.5 | 46.5 | 68.0 | 77.5 | 81.5 | 83.0 | 83.5 | 35.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM) | 0 | 900 | 1690 | 1782 | 1800 |
| Current (Amps) | 466 | 380 | 250 | 71.2 | 27.2 |
| Torque (ft-lb) | 545 | 475 | 577 | 221 | 0.00 |

| Information Block | | | | |
|-----------------------------|-------------------------|--------|--------|---------|
| HP | 75.0 | | | |
| Sync. RPM | 1800 | | | |
| Frame | 365 | | | |
| Enclosure | TEFC | | | |
| Construction | TFR | | | |
| Voltage | 575 V | | | |
| Frequency | 60 Hz | | | |
| Design | A | | | |
| LR Code letter | G | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 85 °C | | | |
| Duty | CONT | | | |
| Ambient | 40 °C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 0.00 Lb-Ft ² | | | |
| Ref Wdg | L3654028 NONE | | | |
| Sound Pressure @ 1M | 999 dBA | | | |
| VFD Rating | NONE | | | |
| Outline Dwg | XH2F1SS1-1770 | | | |
| Conn. Diag | A-EE7340-LN | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0650 | 0.0470 | 0.4670 | 0.5970 | 11.9310 |



Speed - Torque Curve

