

PRODUCT INFORMATION PACKET



Model No: LM32842
Catalog No: LM32842
General Purpose Motor, 30 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
286TSC Frame, TEFC



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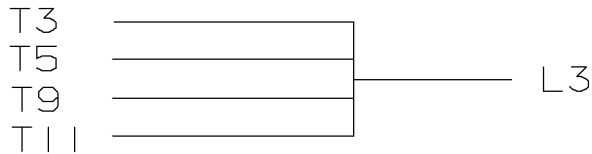
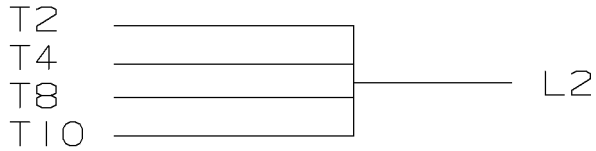
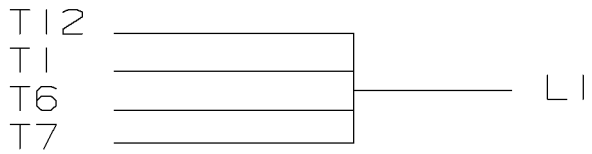


Nameplate Specifications

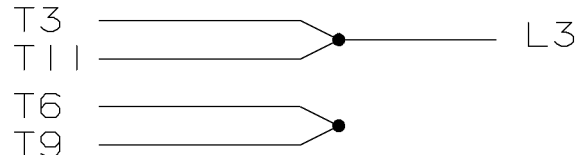
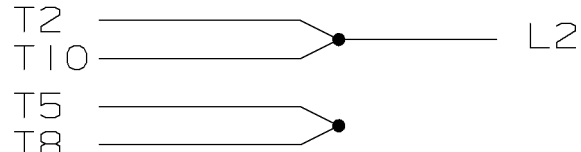
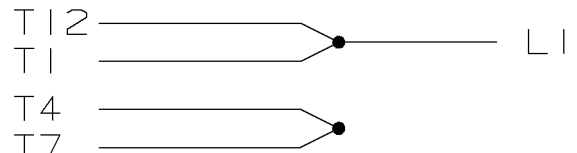
| | | | |
|------------------------|------------------------------|----------------------------|------------------------------------|
| Phase | 3 | Output HP | 30 & 25 Hp |
| Output KW | 22.4 & 18.7 kW | Voltage | 230/460 & 190/380 V |
| Speed | 1770 & 1470 rpm | Service Factor | 1.25 & 1.15 |
| Frame | 286TSC | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Efficiency | 93.6 & 93 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 75/37.5 & 76/38 A | Power Factor | 80 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Drive End Bearing Size | 312 | Opp Drive End Bearing Size | 209 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 43 |
| Number of Speeds | 1 | | |

Technical Specifications

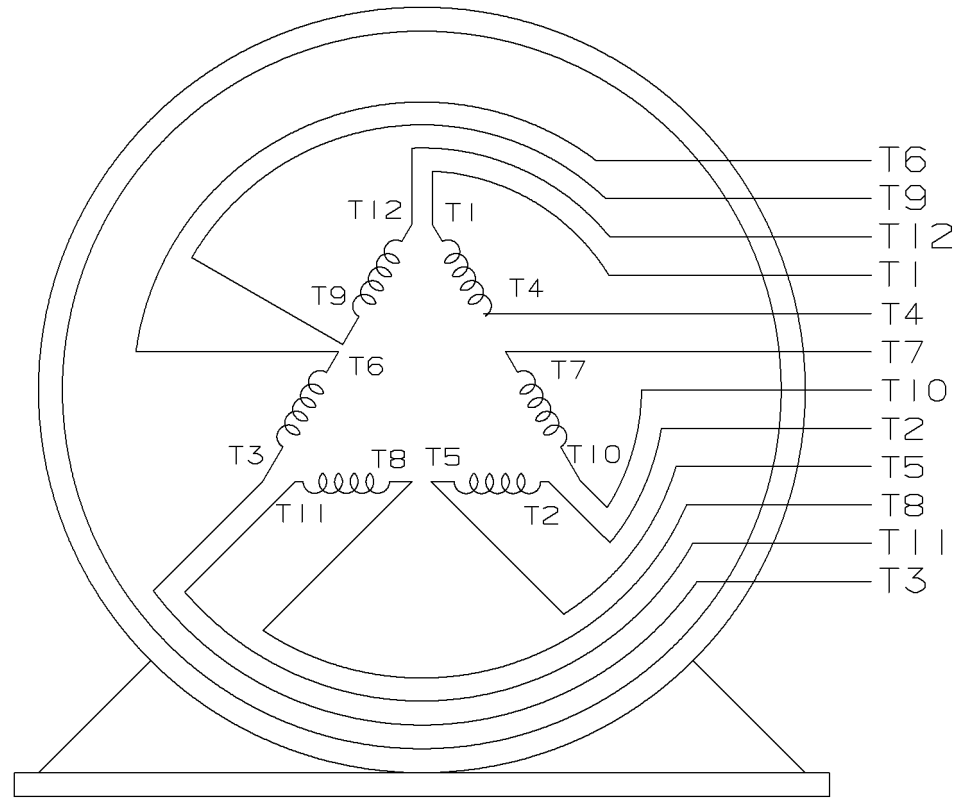
| | | | |
|-----------------------|------------------------------------|-----------------------|----------------------------|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Wye Start Delta Run |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | .2 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Aluminum |
| Shaft Type | TS | Overall Length | 26.63 in |
| Frame Length | 15.25 in | Shaft Diameter | 1.625 in |
| Shaft Extension | 3.25 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Outline Drawing | XF5F1SC2-1525 | Connection Drawing | A-EE7308AA-LN |



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

| | | | | | | | | | |
|-----|------------|------------------------------------|------|--|---|---------|----------|---------------------------|------------|
| | | | | | ✓ UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7'30" | | | | |
| 2 | 08-09-1999 | RE-ISSUE, ADDED '-' TO PART NUMBER | BLR | | MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED | | DRAWN BY | TRB | 07-16-1999 |
| 1 | 06-18-1999 | NEW DRAWING | TRB | FINISH | | CHKD BY | ML | 06-18-1999 | |
| | | | | MATERIAL | | APPD BY | GK | 06-18-1999 | |
| REV | DATE | CHANGE | NAME | PART NAME 3 PHASE CONNECTION DIAGRAM 2/1 DELTA - 12 LEADS | | | | DRWG NO A- EE7308AA-LN | |

PURCHASED

CADD FILE NO.

EE7308AALN

ERROR: undefined
OFFENDING COMMAND: Pscrip

STACK:



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: A-EE7308AA-LN

OUTLINE: XF5F1SC2-1525

CATALOG #: LM32842

WINDING #: L2864020 1

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-----------|-----------|-----------|--------|-----------|----------|--------|
| 30&25 | 22.4&18.7 | 1800 | 1770&1470 | 286TSC | TEFC | G | B |

| PH | Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB°C |
|----|-------|-----------------|---------------|---------------------|------------|------|-----------|-------|
| 3 | 60/50 | 230/460&190/380 | 75/37.5&76/38 | WYE START DELTA RUN | CONTINUOUS | F3 | 1.25/1.15 | 40 |

| FULL LOAD EFF: | 93.6&93 | 3/4 LOAD EFF: | 94.1 | 1/2 LOAD EFF: | 93.6 | GTD. EFF | ELEC. TYPE |
|----------------|---------|---------------|------|---------------|------|----------|-----------------|
| FULL LOAD PF: | 80&80 | 3/4 LOAD PF: | 77 | 1/2 LOAD PF: | 69 | 92.4 | SQ CAGE IND RUN |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|-----------------|-----------------|-------------|
| 88.5 LB-FT | 416 / 208 | 205 LB-FT 230 % | 213 LB-FT 240 % | 70 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|-------------|-----------|-----------------|---------------|-------------------|
| - dBA | - dBA | 5.3 LB-FT^2 | - LB-FT^2 | - SEC. | - | - LBS. |

*** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|---------------|
| C-FACE | STANDARD | RIGID | HORIZONTAL | FALSE | NONE | FALSE | NONE | GRAY (ENAMEL) |

| 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) | ALUMINUM |
| 312 | 209 | | | | | | |

| 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 NONE V NONE Hz |

Data Sheet

Date: 1/19/2018

LM32842



Data @ **460 V**

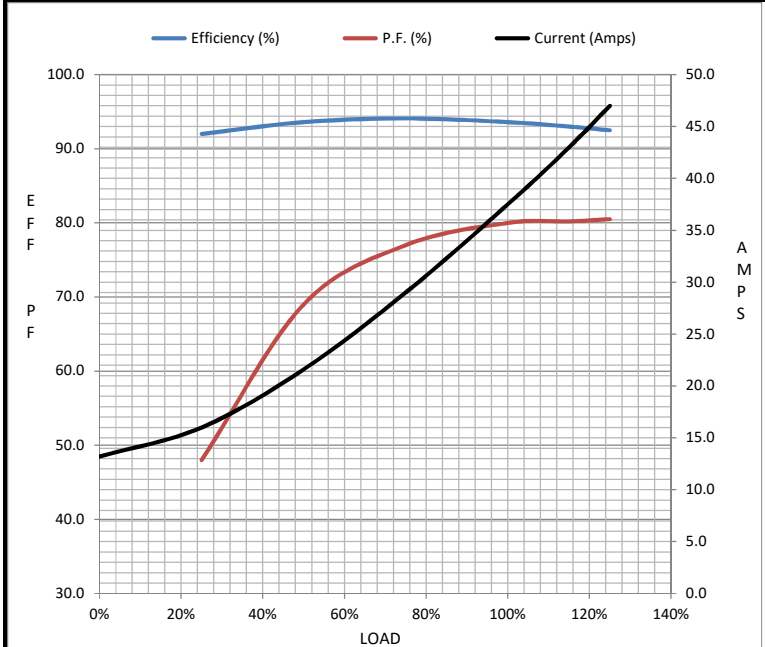
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 13.2 | 16.0 | 21.6 | 29.0 | 37.5 | 43.0 | 47.0 | 208 |
| Torque (ft-lb) | 0.00 | 22.0 | 44.0 | 66.5 | 88.5 | 103 | 112 | 205 |
| RPM | 1800 | 1795 | 1785 | 1780 | 1770 | 1.765 | 1755 | 0 |
| Efficiency (%) | | 92.0 | 93.6 | 94.1 | 93.6 | 93.0 | 92.5 | |
| P.F. (%) | 3.7 | 48.0 | 69.0 | 77.0 | 80.0 | 80.2 | 80.5 | 42.0 |

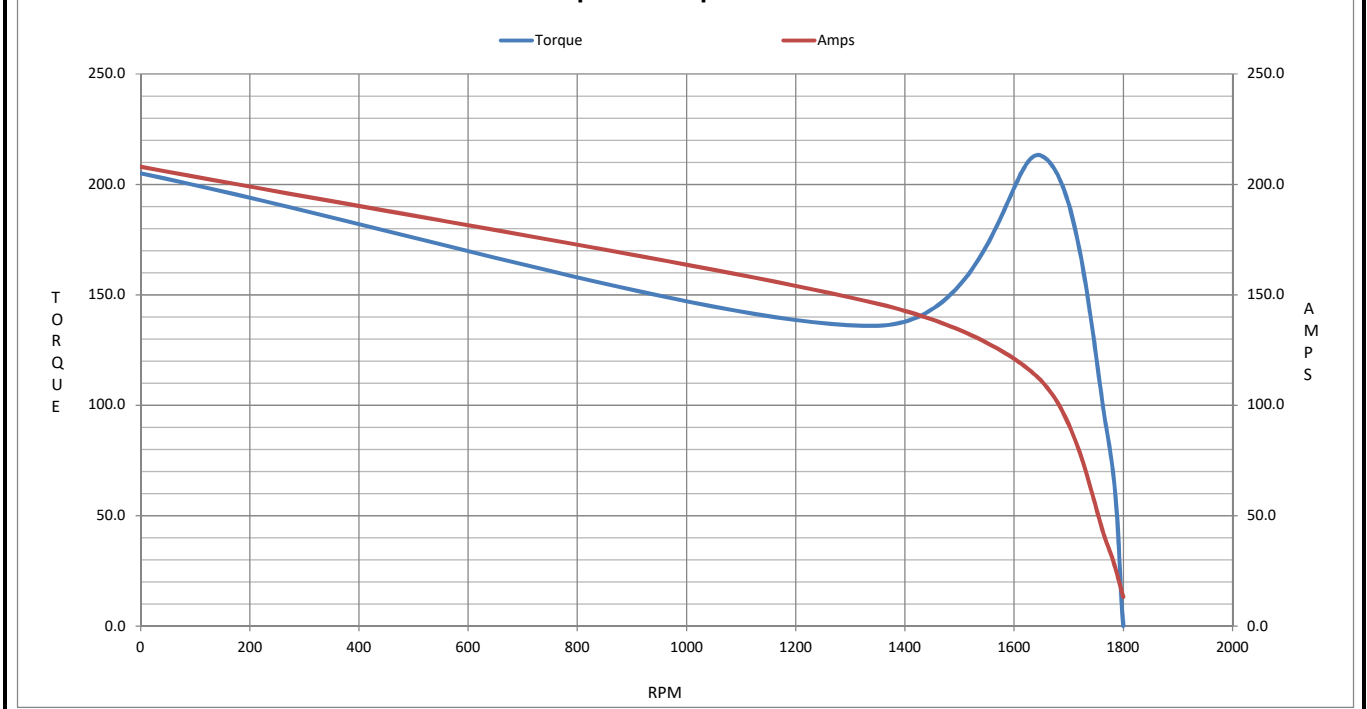
Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM) | 0 | 1350 | 1650 | 1770 | 1800 |
| Current (Amps) | 208 | 146 | 111 | 37.5 | 13.2 |
| Torque (ft-lb) | 205 | 136 | 213 | 88.5 | 0.00 |

| Information Block | | | | |
|-----------------------------|------------------------|--------|--------|---------|
| HP | 30.0 | | | |
| Sync. RPM | 1800 | | | |
| Frame | 286 | | | |
| Enclosure | TEFC | | | |
| Construction | TFL | | | |
| Voltage | 230/460#190/380 V | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | G | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 70 °C | | | |
| Duty | CONT | | | |
| Ambient | 40 °C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 5.3 Lb-Ft ² | | | |
| Ref Wdg | L2864020 NONE | | | |
| Sound Pressure @ 1M | 999 dBA | | | |
| VFD Rating | NONE | | | |
| Outline Dwg | XF5F1SC2-1525 | | | |
| Conn. Diag | A-EE7308AA-LN | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.1400 | 0.0950 | 0.6750 | 1.2830 | 17.0100 |



Speed - Torque Curve



EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : LM32842

(Model No. may contain prefix and/or suffix characters)

Catalog No : LM32842

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Created on 09/01/2022

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

CE 22