

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 447TTDN16041
Catalog No: U789
300,1800,DP,447T,3/60/460
Open Drip Proof (ODP)



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REGAL[®]



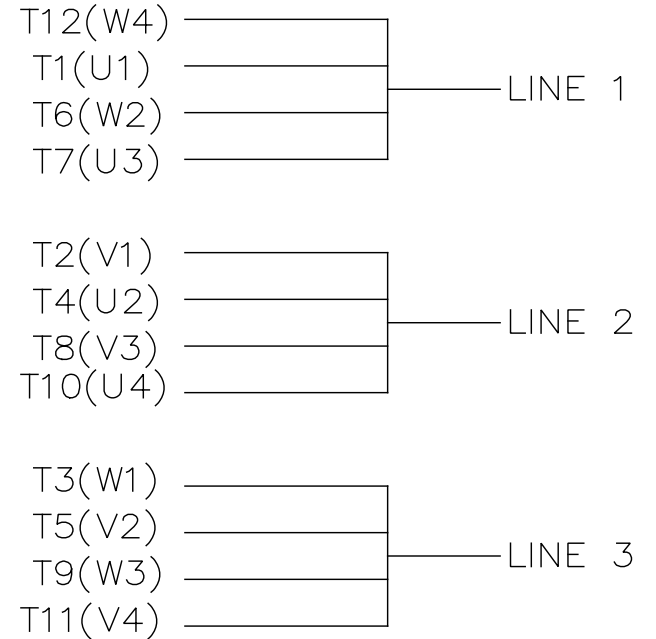
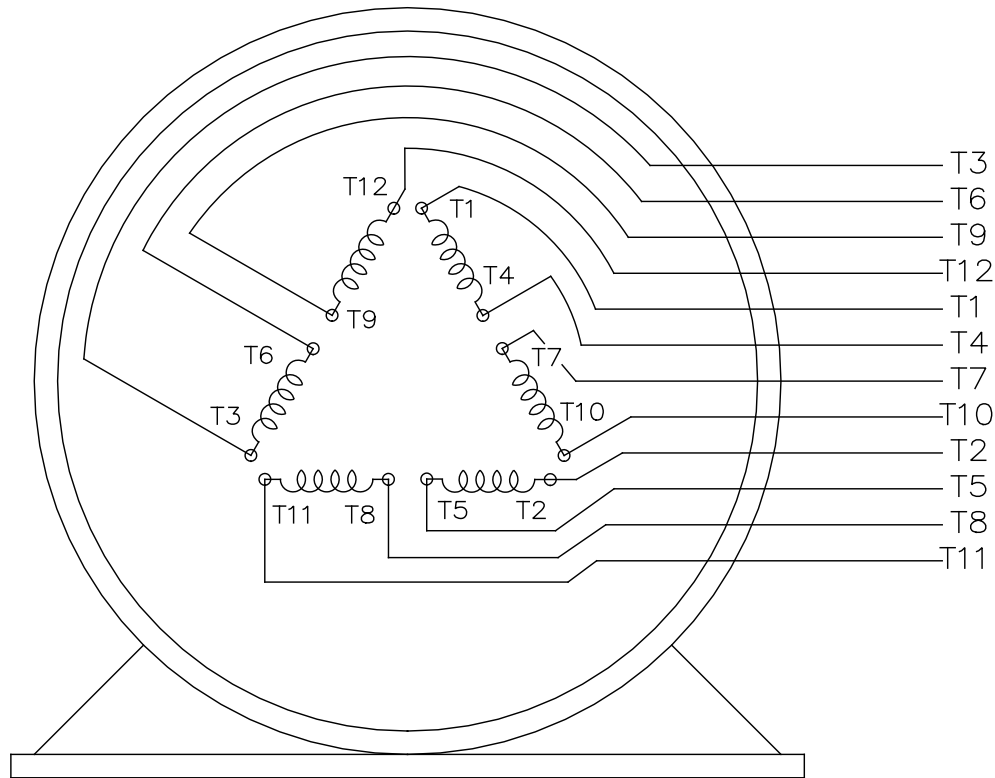
Nameplate Specifications

| | | | |
|----------------------------|-------------------|------------------------|-------------------|
| Output HP | 300 Hp | Output KW | 224.0 kW |
| Frequency | 60 Hz | Voltage | 460 V |
| Current | 340.0 A | Speed | 1785 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 96.2 % | Duty | Continuous |
| Insulation Class | F | Design Code | B |
| KVA Code | F | Frame | 447T |
| Enclosure | Drip Proof | Overload Protector | No |
| Ambient Temperature | 40 °C | Drive End Bearing Size | 6318 |
| Opp Drive End Bearing Size | 6314 | UL | Recognized |
| CSA | Y | CE | Y |
| IP Code | 12 | | |

Technical Specifications

| | | | |
|-----------------------|------------------------------------|-----------------------|---|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Part Wdg Start & Wye Start Delta Run |
| Poles | 4 | Rotation | Reversible |
| Mounting | Rigid base | Motor Orientation | Horizontal |
| Drive End Bearing | Ball | Opp Drive End Bearing | Ball |
| Frame Material | Cast Iron | Shaft Type | T |
| Overall Length | 43.25 in | Frame Length | 24.38 in |
| Shaft Diameter | 3.375 in | Shaft Extension | 8.75 in |
| Assembly/Box Mounting | F1/F2 Capable | | |
| Outline Drawing | B-SS514252-2438 | Connection Diagram | A-EE7300BH |

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VIEW OF TERMINAL END

| | | | | TOLERANCES UNLESS SPECIFIED | | REGAL REGAL - BELOIT CORPORATION | DRAWN RJW 02-11-2005 | | | |
|--|------------------------------|-------------|----------------|-----------------------------|--------------|----------------------------------|----------------------|-------------|------------|------|
| | | | | DEC. | INCHES | | CHK | ML | 02-11-2005 | |
| | | | | .X | ±.1 | | APPD | GK | 02-11-2005 | |
| | | | | .XX | ±.02 | TITLE CONNECTION DIAGRAM | | SCALE | | |
| D | CHANGED TO REGAL TITLE BLOCK | ECO-0108299 | WGJ 08/22/2016 | EMH | .XXX ±.005 | 12 LEAD- SINGLE VOLTAGE | | REF | | |
| 1 | ADDED IEC TERMINAL MARKINGS | CN 41429 | JJB 05/24/2007 | ML | .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 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 | 02-11-2005 | CAD FILE ee7300bh | SIZE | DRAWING NO. | PAGE OF | REV. |
| | | | | DIST | LB | | A | EE7300BH | | C |

Data Sheet

Date: 16-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



447TTDN16041

Submittal

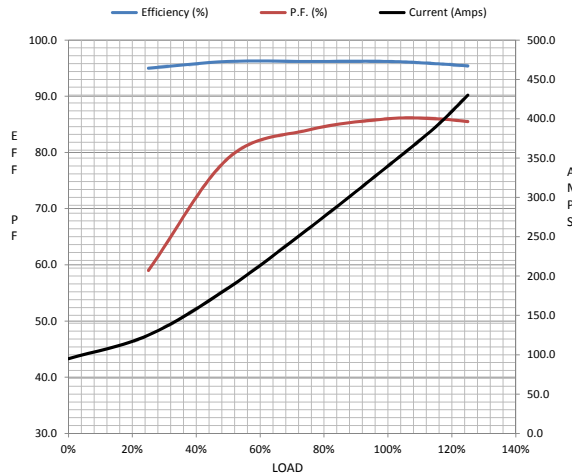
Data @ 460 V

Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|-------|-------|
| Current (Amps) | 95.0 | 125 | 185 | 260 | 340 | 390 | 430 | 1,900 |
| Torque (ft-lb) | 0.00 | 220 | 440 | 660 | 882 | 1,015 | 1,105 | 1,375 |
| RPM | 1800 | 1796 | 1792 | 1788 | 1785 | 1,782 | 1780 | 0 |
| Efficiency (%) | | 95.0 | 96.2 | 96.2 | 96.2 | 95.8 | 95.4 | |
| P.F. (%) | 3.0 | 59.0 | 79.0 | 84.0 | 86.0 | 86.0 | 85.5 | 30.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-------|---------|-------|-------|------|
| Speed (RPM) | 0 | 900 | 1740 | 1785 | 1800 |
| Current (Amps) | 1,900 | 1,750 | 1,250 | 340 | 95.0 |
| Torque (ft-lb) | 1,375 | 1,250 | 1,800 | 882 | 0.00 |



| Information Block | | | | |
|-----------------------------|-------------------------|--------|--------|--------|
| HP | 300.0 | | | |
| Sync. RPM | 1800 | | | |
| Frame | 447 | | | |
| Enclosure | DP | | | |
| Construction | TDN | | | |
| Voltage | 460#380 V | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | F | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 50 ° C | | | |
| Duty | CONT | | | |
| Ambient | 40 ° C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 70.0 Lb-Ft ² | | | |
| Ref Wdg | T447429 NONE | | | |
| Sound Pressure @ 1M | 82 dBA | | | |
| VFD Rating | NONE | | | |
| Outline Dwg | B-SS514252-2438 | | | |
| Conn. Diag | A-EE7300BH | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 365THFS8036 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0110 | 0.0070 | 0.0960 | 0.1180 | 2.8380 |

Speed -Torque Curve

