

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 324TTDCA6037

Catalog No: GT2434

Globetrotter® Close-Coupled Pump Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 324JP Frame, DP



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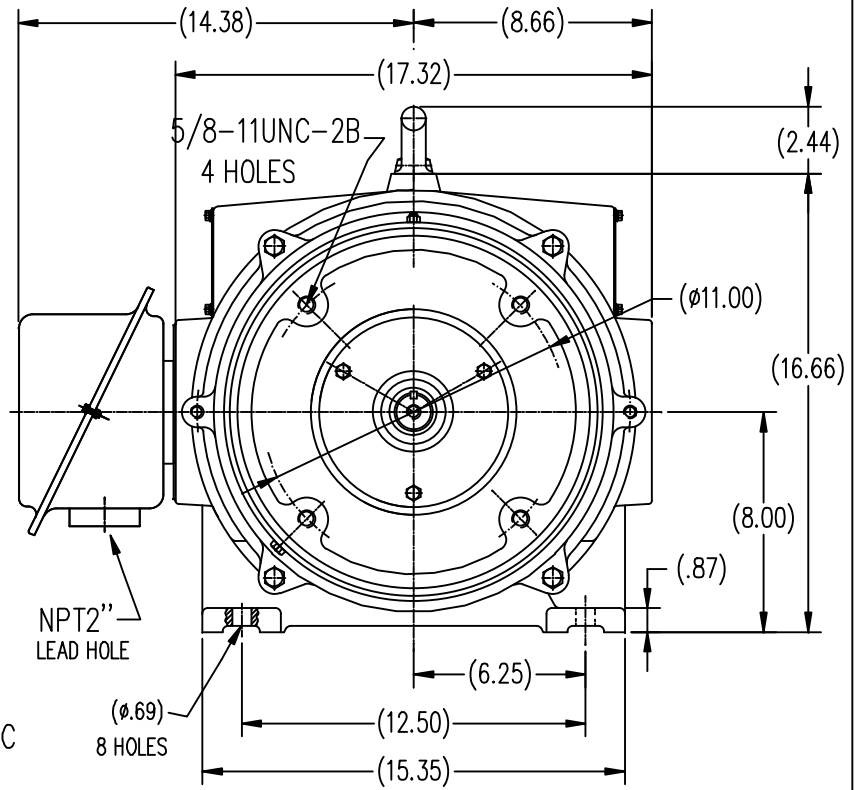
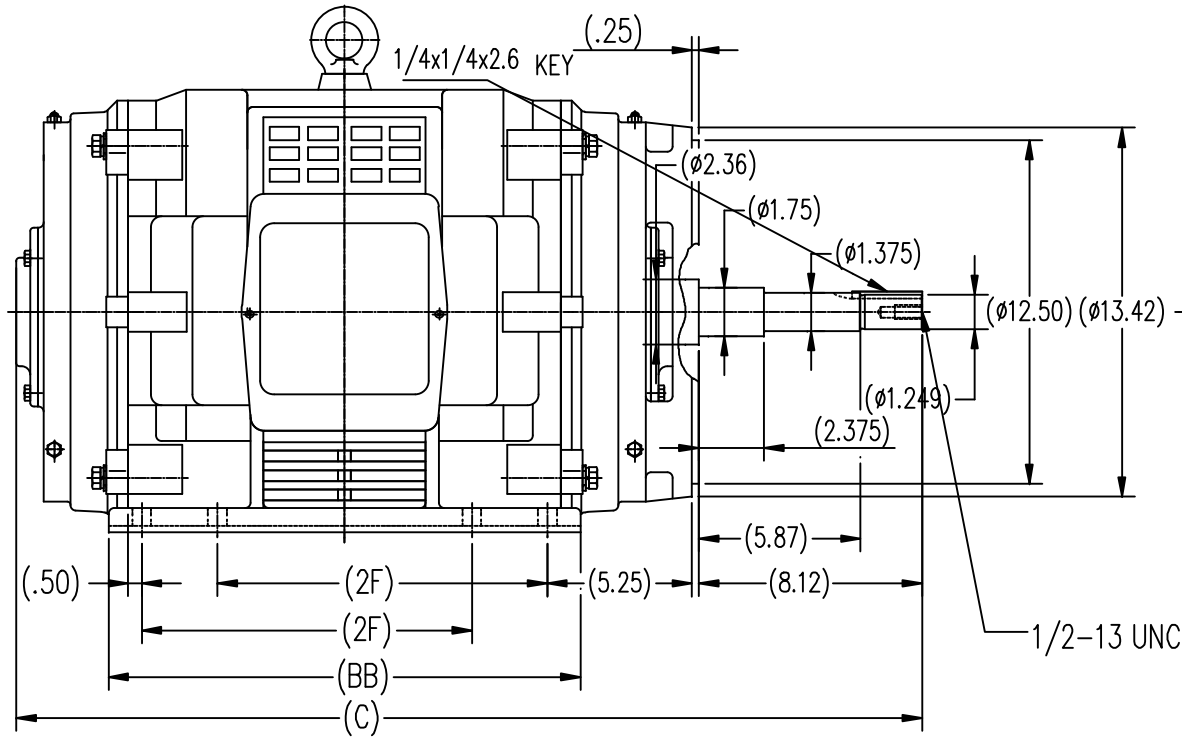
RegalRexnord

Nameplate Specifications

| | | | |
|------------------------|--------------------------------|----------------------------|--------------------------------|
| Phase | 3 | Output HP | 40 & 30 Hp |
| Output KW | 30.0 & 22.4 kW | Voltage | 230/460 & 190/380 V |
| Speed | 1780 & 1485 rpm | Service Factor | 1.15 & 1.0 |
| Frame | 324JP | Enclosure | Drip Proof |
| Thermal Protection | No Protection | Efficiency | 94.5 & 94.1 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 95/47.5 & 87/43.5 A | Power Factor | 83 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | F |
| Drive End Bearing Size | 6312 | Opp Drive End Bearing Size | 6311 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 12 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|-------------------------------------|-----------------------|--|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Wye Start Delta Run Or Inverter |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | .1817 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | JP | Overall Length | 31.82 in |
| Frame Length | 14.56 in | Shaft Diameter | 1.250 in |
| Shaft Extension | 8.12 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Outline Drawing | SS620574-324T | Connection Drawing | EE7308AA |



| | | | |
|-------|-------|-------|-------|
| 324T | 10.50 | 15.99 | 31.82 |
| 326T | 12.00 | 17.17 | 33.00 |
| FRAME | 2F | BB | C |

| TOLERANCES UNLESS SPECIFIED | | REGAL-BELOIT CORPORATION | | DRAWN VY 05-23-2012 | |
|--|----------|--------------------------|----------------|---------------------|----------------|
| DEC. | INCHES | CHK | ZYH 05-23-2012 | APPD | WGH 05-23-2012 |
| .X | ±.1 | | | | |
| .XX | ±.03 | | | | SCALE 1=6 |
| .XXX | ±.005 | | | | REF |
| .XXXX | ±.0005 | | | | FMF HWADA |
| | | | | | PREV |
| NO. | REVISION | BY & DATE | CHK | ANG | FINISH |
| 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 | SS620574 |
| | | | DIST | SIZE | DRAWING NO. |
| | | | | B | SS620574 |
| | | | | | REV. |



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

| | | |
|---|------------------------------|---------------------------|
| DRAWING REVISION K | REVISION BY AJW | DATE 07-17-2015 |
| ECO ECO-0081632 | APPROVED BY T. VUE | DATE 07-17-2015 |
| ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8 | | |
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| | | |
|---------------------------|--|-----------------------------------|
| DRAWN BY LZ | Regal Beloit America, Inc. | |
| DATE 01-12-1994 | | |
| APPROVED BY GK | DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS | |
| DATE 01-14-1994 | | |
| REFERENCE | MATERIAL | PROCESS/FINISH |
| THIRD ANGLE PROJECTION | SIZE A | DRAWING NUMBER EE7308AA |
| | | SHEET 1 OF 1 |

CERTIFICATION DATA SHEET

Model#: 324TTDCA6037 AA **WINDING#:** CHT32440002 NONE 1
CONN. DIAGRAM: EE7308AA **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: SS620574

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|---------|-----------|-----------|-------|-----------|----------|--------|
| 40&30 | 30&22.4 | 1800 | 1780&1485 | 324JP | DP | F | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|-------|---------------------|---------------------|-------------------------|----------------|------|----------|-------|-----------|
| 3 | 60/50 | 230/460#190/ 380 | 95/47.5&87/43 .5 | Y START D RUN OR INV | CONTINUOU S | F7 | 1.15/1.0 | 40 | 3300 |

| FULL LOAD EFF: 94.5&94.1 | 3/4 LOAD EFF: 94.1 | 1/2 LOAD EFF: 93.6 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|-----------------------------|--------------------|--------------------|----------|-------------------|--------------|
| | | | 93.6 | SQ CAGE INV RATED | 33 / 16.5 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 118 LB-FT | 504 / 252 | 189 LB-FT 161 | 289 LB-FT 245 | 30 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---------------------------|-------------|-------------|-----------|-----------------|-----------------|----------------------|
| 60 dBA | 70 dBA | 9.5 LB-FT^2 | - LB-FT^2 | 20 SEC. | 2 | 575 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 | BLUE (ENAMEL) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|----------------------------|-------------------|
| DE | OPE | | | | | | |
| BALL | BALL | POLYREX EM | JP | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| 6312 | 6311 | | | | | | |

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

If Inverter equals NONE, contact factory for further information

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|--------------------------------|
| INVERTER TORQUE: VARIABLE 10:1 |
| INV. HP SPEED RANGE: NONE |
| ENCODER: NONE |
| NONE NONE |
| NONE NONE PPR |
| BRAKE: NONE NONE |
| NONE P/N NONE |
| NONE NONE |
| NONE FT-LB NONE V NONE Hz |

DATE: 06/21/2017 04:14:05 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/19/2017

324TTDCA6037

Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 460 V

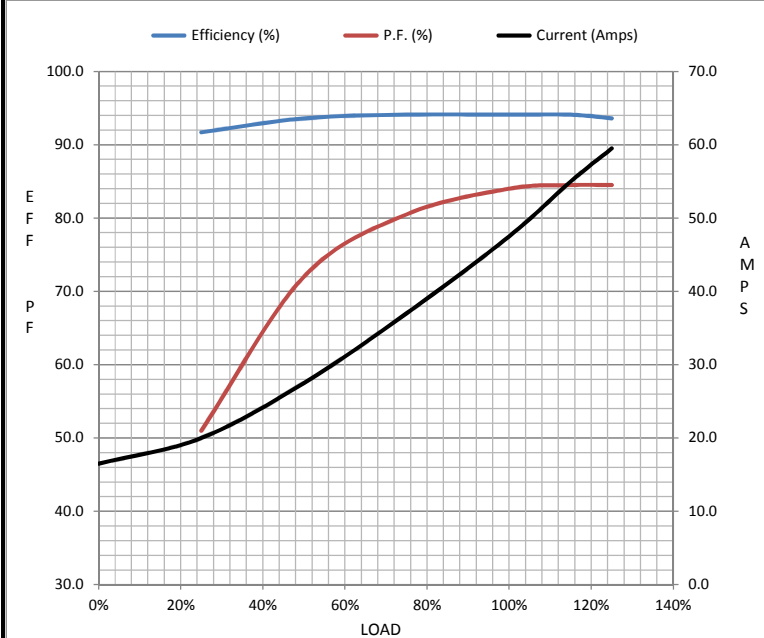
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 16.5 | 20.0 | 27.5 | 37.0 | 47.5 | 55.0 | 59.5 | 252 |
| Torque (ft-lb) | 0.00 | 29.0 | 58.5 | 88.0 | 118 | 136 | 148 | 189 |
| RPM | 1800 | 1795 | 1790 | 1785 | 1780 | 1,778 | 1775 | 0 |
| Efficiency (%) | | 91.7 | 93.6 | 94.1 | 94.1 | 94.1 | 93.6 | |
| P.F. (%) | 4.5 | 51.0 | 72.0 | 80.5 | 84.0 | 84.5 | 84.5 | 35.5 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM) | 0 | 900 | 1685 | 1780 | 1800 |
| Current (Amps) | 252 | 227 | 155 | 47.5 | 16.5 |
| Torque (ft-lb) | 189 | 171 | 289 | 118 | 0.00 |

| Information Block | | | | |
|-----------------------------|------------------------|--------|--------|---------|
| HP | 40.0 | | | |
| Sync. RPM | 1800 | | | |
| Frame | 324 | | | |
| Enclosure | DP | | | |
| Construction | TDC | | | |
| Voltage | 30/460#190/381V | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | F | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 30 ° C | | | |
| Duty | CONT | | | |
| Ambient | 40 ° C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 9.5 Lb-Ft ² | | | |
| Ref Wdg | CHT32440002 NONE | | | |
| Sound Pressure @ 1M | 75 dBA | | | |
| VFD Rating | VARIABLE 10:1 | | | |
| Outline Dwg | SS620574 | | | |
| Conn. Diag | EE7308AA | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.1260 | 0.0600 | 0.5370 | 0.8510 | 16.4420 |



Speed -Torque Curve

