

PRODUCT INFORMATION PACKET

Model No: 449TSTFCD6003

Catalog No: GT1077

Globetrotter® General Purpose Motor, 350 & 300 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 & 3000 RPM,
449TS Frame, TEFC



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Nameplate Specifications

| | | | |
|------------------------|-----------------------------|----------------------------|------------------------------------|
| Phase | 3 | Output HP | 350 & 300 Hp |
| Output KW | 260.0 & 224.0 kW | Voltage | 460 & 380 V |
| Speed | 3580 & 2978 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 449TS | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Efficiency | 95.8 & 95.6 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 373 & 388 A | Power Factor | 91.8 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Drive End Bearing Size | 6314 | Opp Drive End Bearing Size | 6314 |
| UL | Listed | CSA | Y |
| CE | Y | IP Code | 55 |
| Number of Speeds | 1 | Hazardous Location | DIVISION 2 T2B |

Technical Specifications

| | | | |
|-----------------------|-------------------------------------|-------------------|-----------------------------------|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Part Wdg Start Or Inverter |
| Poles | 2 | Rotation | Reversible |
| Resistance Main | .00943 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | TS | Shaft Diameter | 2.375 in |
| Assembly/Box Mounting | F1/F2 CAPABLE | Inverter Load | CONSTANT 2:1/VARIABLE 10:1 |
| Connection Drawing | EE7341C | Outline Drawing | SS557012 |

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EE7341C

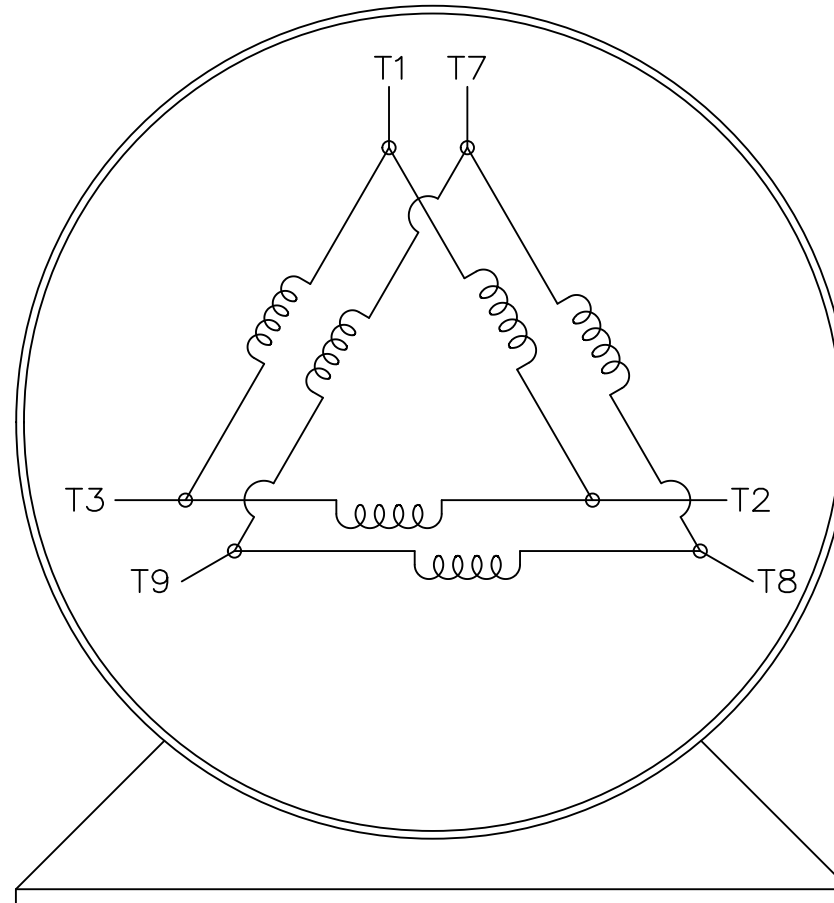
THREE PHASE – PART WINDING START
DELTA – 6 LEADS

START

CONNECT T1 TO LINE 1
CONNECT T2 TO LINE 2
CONNECT T3 TO LINE 3
T7-T8-T9 OPEN

RUN

CONNECT T1&T7 TO LINE 1
CONNECT T2&T8 TO LINE 2
CONNECT T3&T9 TO LINE 3



VIEW OF TERMINAL END

IF MOTOR HAS 2 T'S

START

CONNECT T1,T1 TO LINE 1
CONNECT T2,T2 TO LINE 2
CONNECT T3,T3 TO LINE 3
T7,T7-T8,T8-T9,T9 OPEN

RUN

CONNECT T1,T1&T7,T7 TO LINE 1
CONNECT T2,T2&T8,T8 TO LINE 2
CONNECT T3,T3&T9,T9 TO LINE 3

| | | TOLERANCES UNLESS SPECIFIED | | REGAL REGAL-BELOIT CORPORATION | | DRAWN | BLR | 03-09-1998 |
|--|--------------------------------------|-----------------------------|--------|--------------------------------|------------------|--------------------|------|--------------------------|
| | | DEC. | INCHES | | | CHK | ML | 03-23-1998 |
| | | .X | ± - | | | APPD | GK | 03-23-1998 |
| | | .XX | ± - | TITLE | | SCALE 1=1 | | |
| E | NOTE ADDED FOR 2 T'S | NAR 17-12-2020 | RC | .XXX | ± - | CONNECTION DIAGRAM | | REF |
| D | RE-DRAWN WITH REGAL LOGO ECO-0110493 | WGJ 09-30-2016 | EMH | .XXXX | ± - | 3ø - 6 LEADS | | FMF |
| NO. | REVISION | BY & DATE | CHK | ANG | ± - | 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 EE7341C | | SIZE | DRAWING NO. PAGE OF REV. |
| | | | | DIST | | | A | EE7341C E |



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____
ORDER #: _____
CONN. DIAGRAM: EE7341C
OUTLINE: SS557012
WINDING: HA32802022 NONE 1
SPEED: _____

CUSTOMER P.O. #: _____
REFERENCE MODEL #: 449TSTFCDB003
CAT #: GT1077
CUSTOMER PART #: _____
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|-----|-----|----------|--------|-----------|-----------|------|----------|--------|
| 350 | 261 | 3600 | 3580 | 447/449TS | TEFC | TFC | G | B |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
|----|-------|---------|---------|-----------------|------|------|------|-----|-------|
| 3 | 60/50 | 460#380 | 373&388 | PWS OR INVERTER | CONT | F | 1.15 | 40 | 3300 |

| F.L. EFF | 3/4 LD EFF | 96.0 | 1/2 LD EFF | 95.9 | GTD EFF | ELECT. TYPE |
|----------|------------|------|------------|------|---------|-------------------|
| 95.8 | 96.0 | 96.0 | 95.9 | 95.4 | 95.4 | SQ CAGE INV RATED |
| F.L. PF | 3/4 LD PF | 90.7 | 1/2 LD PF | 87.4 | 95.4 | |
| 91.8 | 90.7 | 90.7 | 87.4 | 95.4 | 95.4 | |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (° C) |
|-------------|-----------------|-------------|------------------|-----------------|
| 514 LB-FT | 2.700 | 1,010 LB-FT | 1,319 LB-FT 257% | 80 |

| SOUND PRESSURE @ 3 FT. | SOUND | POWER | ROTOR WK ² | MAX. LOAD WK ² | SAFE STALL TIME | STARTS/HOUR | APROX. | MOTOR WGT |
|------------------------|--------|-------|-------------------------|---------------------------|-----------------|-------------|----------|-----------|
| 80 dBA | 89 dBA | | 54.5 LB-FT ² | - LB-FT ² | 45 SEC. | 2 | 2739 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 | DIVISION 2 T2B | NO | NONE | BLUE (ENAMEL) |

| BEARINGS | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------------------------------|------------|------------|------------|-------------|-------------------------|----------------|
| DE ODE BALL BALL 6314 6314 | POLYREX EM | TS | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |

| 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 |
|--------------|--------------|--------------|--------------|--------------|--------------------|-------|
| 0.006 | 0.004 | 0.049 | 0.087 | 3.248 | 0.150 | ODE |

| | |
|---------------------------------|--|
| * N O T E S * | INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1 INV. HP SPEED RANGE: NONE |
| | ENCODER: NONE NONE NONE PPR |
| | BRAKE: NONE NONE NONE FT-LB: NA VOLTAGE: NONE HZ: |
| | UL: NO LETTER - ME,WUXI TEFC BLUEWHALE CLASS 1 DIV. 2 UL LISTED |

PREPARED BY: _____ 0
DATE: 3/9/2021
FORM: 3531 REV_4 2/27/06

Data Sheet

Date: 12/24/2020
 Customer: _____
 Attention: _____
 Submitted by: _____



449TSTFCD6003

Submittal

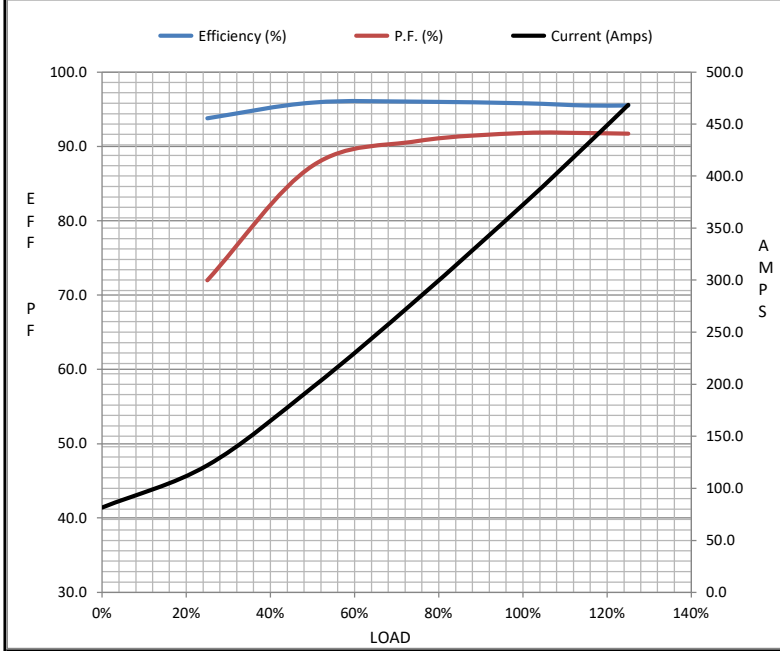
Data @ 460 V

Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|----------------|------|------|------|------|------|-------|------|-------|--|
| Current (Amps) | 81.5 | 122 | 197 | 282 | 373 | 430 | 469 | 2,700 | |
| Torque (ft-lb) | 0.00 | 128 | 256 | 384 | 514 | 591 | 643 | 1,010 | |
| RPM | 3600 | 3595 | 3590 | 3585 | 3580 | 3,576 | 3574 | 0 | |
| Efficiency (%) | | 93.8 | 95.9 | 96.0 | 95.8 | 95.5 | 95.5 | | |
| P.F. (%) | 6.1 | 72.0 | 87.4 | 90.7 | 91.8 | 91.8 | 91.7 | 31.0 | |

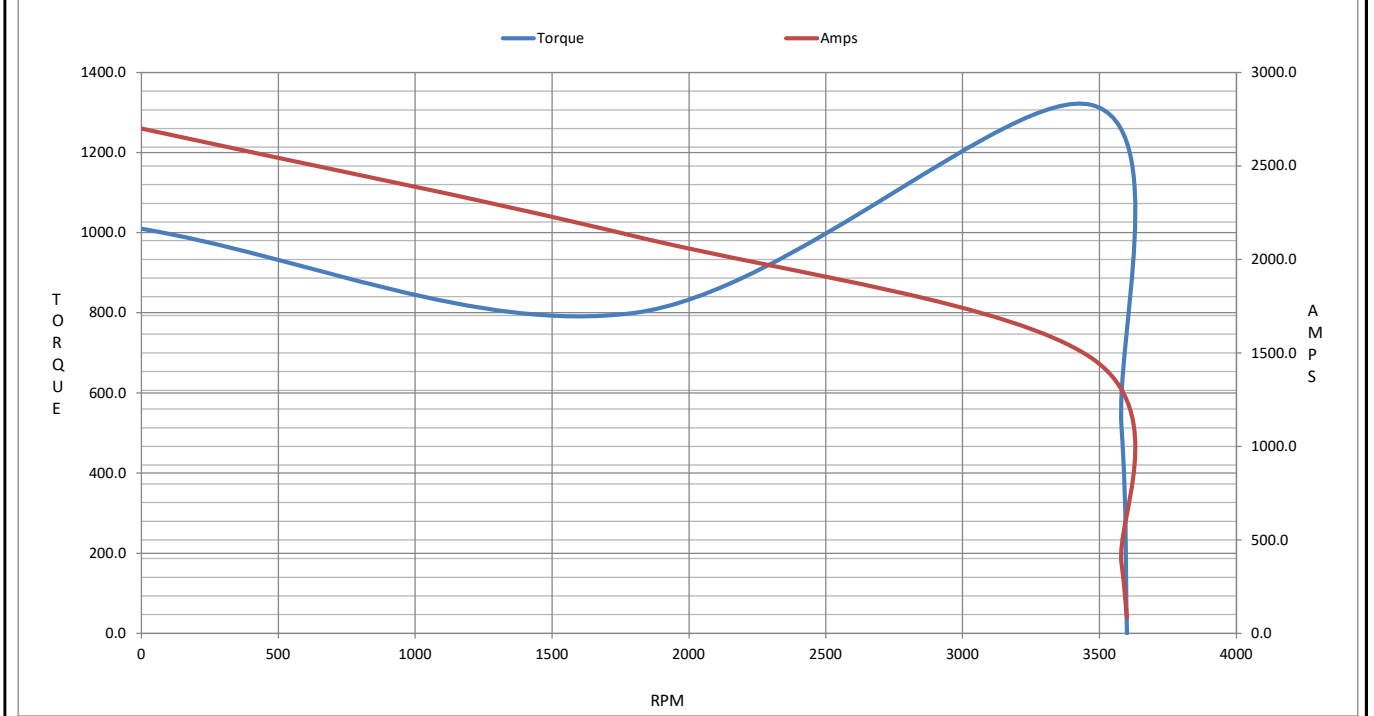
Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle | Information Block | | | | |
|----------------|-------|---------|-------|-------|------|-----------------------------|----------------------------|--------------------|--------|--------|
| Speed (RPM) | 0 | 1800 | 3470 | 3580 | 3600 | HP | 350.0 | | | |
| Current (Amps) | 2,700 | 2,125 | 1,474 | 373 | 81.5 | Sync. RPM | 3600 | | | |
| Torque (ft-lb) | 1,010 | 800 | 1,319 | 514 | 0.00 | Frame | 449 | | | |
| | | | | | | Enclosure | TEFC | | | |
| | | | | | | Construction | TFC | | | |
| | | | | | | Voltage | 460 | V | | |
| | | | | | | Frequency | 60 | Hz | | |
| | | | | | | Design | B | | | |
| | | | | | | LR Code letter | G | | | |
| | | | | | | Service Factor | 1.15 | | | |
| | | | | | | Temp Rise @ FL | 80 | ° C | | |
| | | | | | | Duty | CONT | | | |
| | | | | | | Ambient | 40 | ° C | | |
| | | | | | | Elevation | 3,300 | feet | | |
| | | | | | | Rotor/Shaft wk ² | 53.6 | Lb-Ft ² | | |
| | | | | | | Ref Wdg | HA32802022 NONE | | | |
| | | | | | | Sound Pressure @ 1M | 80 | dBA | | |
| | | | | | | VFD Rating | CONSTANT 2:1/VARIABLE 10:1 | | | |
| | | | | | | Outline Dwg | SS557012 | | | |
| | | | | | | Conn. Diag | EE7300U | | | |
| | | | | | | Additional Specifications: | | | | |
| | | | | | | 0 | | | | |
| | | | | | | 0 | | | | |
| | | | | | | EQUIV CKT (OHMS / PHASE) | | | | |
| | | | | | | R1 | R2 | X1 | X2 | Xm |
| | | | | | | 0.0060 | 0.0040 | 0.0490 | 0.0870 | 3.2480 |



| | | | |
|-----------------------------|----------------------------|--------------------|--------|
| HP | 350.0 | | |
| Sync. RPM | 3600 | | |
| Frame | 449 | | |
| Enclosure | TEFC | | |
| Construction | TFC | | |
| Voltage | 460 | V | |
| Frequency | 60 | Hz | |
| Design | B | | |
| LR Code letter | G | | |
| Service Factor | 1.15 | | |
| Temp Rise @ FL | 80 | ° C | |
| Duty | CONT | | |
| Ambient | 40 | ° C | |
| Elevation | 3,300 | feet | |
| Rotor/Shaft wk ² | 53.6 | Lb-Ft ² | |
| Ref Wdg | HA32802022 NONE | | |
| Sound Pressure @ 1M | 80 | dBA | |
| VFD Rating | CONSTANT 2:1/VARIABLE 10:1 | | |
| Outline Dwg | SS557012 | | |
| Conn. Diag | EE7300U | | |
| Additional Specifications: | | | |
| 0 | | | |
| 0 | | | |
| EQUIV CKT (OHMS / PHASE) | | | |
| R1 | R2 | X1 | X2 |
| 0.0060 | 0.0040 | 0.0490 | 0.0870 |
| | | | Xm |
| | | | 3.2480 |

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 : 449TSTFCD6003

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

Catalog No : GT1077

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