

# PRODUCT INFORMATION PACKET

marathon®  
Motors

Model No: 080T34FH5516

Catalog No: R395

Globetrotter® IEC Aluminium Motor, 1.50 & 1.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V,  
3600 & 3000 RPM, 80 Frame, TEFC



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RegalRexnord®

### Nameplate Specifications

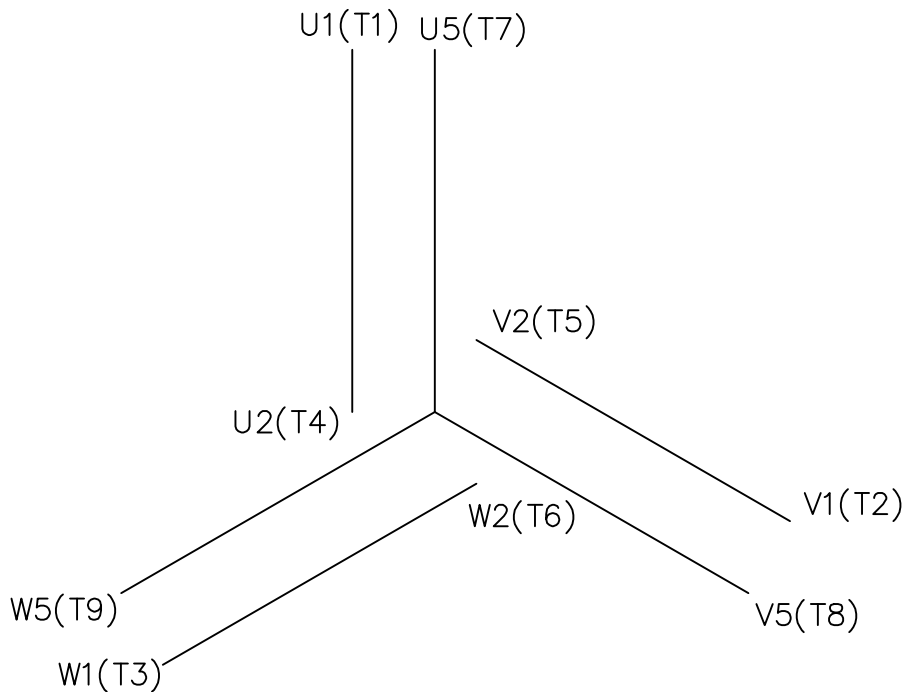
|                        |                                |                            |                                    |
|------------------------|--------------------------------|----------------------------|------------------------------------|
| Phase                  | <b>3</b>                       | Output HP                  | <b>1.50 &amp; 1.50 Hp</b>          |
| Output KW              | <b>1.1 &amp; 1.1 kW</b>        | Voltage                    | <b>230/460 &amp; 200/400 V</b>     |
| Speed                  | <b>3450 &amp; 2850 rpm</b>     | Service Factor             | <b>1.15 &amp; 1.15</b>             |
| Frame                  | <b>80</b>                      | Enclosure                  | <b>Totally Enclosed Fan Cooled</b> |
| Thermal Protection     | <b>No Protection</b>           | Efficiency                 | <b>84 &amp; 82.5 %</b>             |
| Ambient Temperature    | <b>40 °C</b>                   | Frequency                  | <b>60 &amp; 50 Hz</b>              |
| Current                | <b>4.0/2.0 &amp; 4.4/2.2 A</b> | Power Factor               | <b>83.6</b>                        |
| Duty                   | <b>Continuous</b>              | Insulation Class           | <b>F</b>                           |
| Design Code            | <b>B</b>                       | KVA Code                   | <b>K</b>                           |
| Drive End Bearing Size | <b>6204</b>                    | Opp Drive End Bearing Size | <b>6204</b>                        |
| UL                     | <b>Recognized</b>              | CSA                        | <b>Y</b>                           |
| CE                     | <b>Y</b>                       | IP Code                    | <b>55</b>                          |
| Number of Speeds       | <b>1</b>                       |                            |                                    |

### Technical Specifications

|                       |                                     |                       |                         |
|-----------------------|-------------------------------------|-----------------------|-------------------------|
| Electrical Type       | <b>Squirrel Cage Inverter Rated</b> | Starting Method       | <b>Line Or Inverter</b> |
| Poles                 | <b>2</b>                            | Rotation              | <b>Reversible</b>       |
| Resistance Main       | <b>2.322 Ohms</b>                   | Mounting              | <b>Rigid Base</b>       |
| Motor Orientation     | <b>Horizontal</b>                   | Drive End Bearing     | <b>Ball</b>             |
| Opp Drive End Bearing | <b>Ball</b>                         | Frame Material        | <b>Aluminum</b>         |
| Shaft Type            | <b>IEC</b>                          | Overall Length        | <b>11.10 in</b>         |
| Frame Length          | <b>5.31 in</b>                      | Shaft Diameter        | <b>0.750 in</b>         |
| Shaft Extension       | <b>1.57 in</b>                      | Assembly/Box Mounting | <b>F2/F1 CAPABLE</b>    |
| Inverter Load         | <b>CONSTANT 20:1</b>                |                       |                         |
| Connection Drawing    | <b>00546501ME</b>                   | Outline Drawing       | <b>16959500ME</b>       |

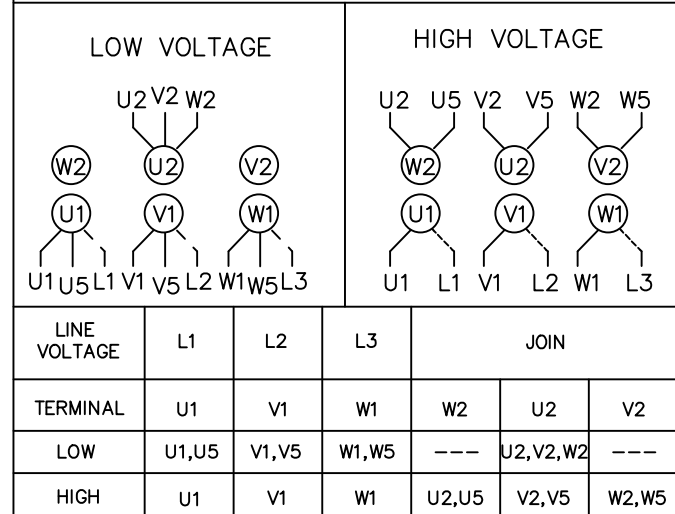




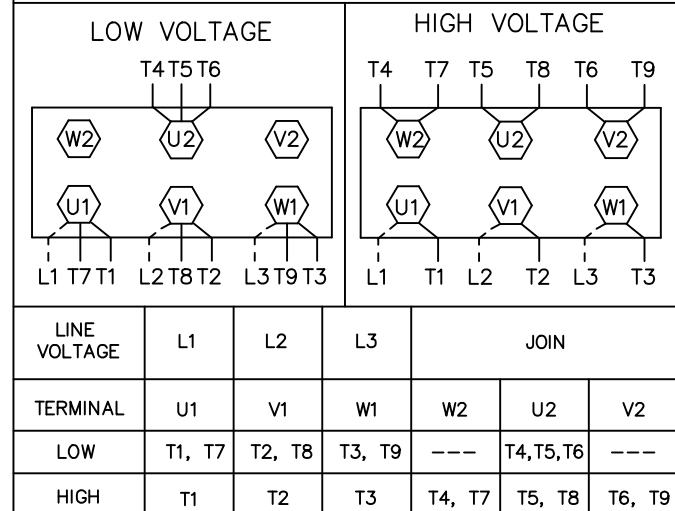


REF. DECAL (IEC) 080644  
REF. DECAL (NEMA) 080446

IEC MARKINGS



NEMA MARKINGS



|  |          |           |     |                             |            |                          |                     |      |             |      |
|--|----------|-----------|-----|-----------------------------|------------|--------------------------|---------------------|------|-------------|------|
|  |          |           |     | TOLERANCES UNLESS SPECIFIED |            |                          | DRAWN JGO 3/10/04   |      |             |      |
|  |          |           |     | DEC.                        | INCHES     |                          | CHK SB 02-17-2010   |      |             |      |
|  |          |           |     | .X                          | ±.1        |                          | APPD MJS 02-17-2010 |      |             |      |
|  |          |           |     | .XX                         | ±.01       |                          | SCALE 1=1           |      |             |      |
|  |          |           |     | .XXX                        | ±.005      |                          | REF                 |      |             |      |
|  |          |           |     | .XXXX                       | ±.0005     | MAT'L. IEC/NEMA MARKINGS |                     |      |             |      |
| NO.  | REVISION | BY & DATE | CHK | ANG                         | ±1/2'      | FINISH                   | FMF                 | 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                         | 02-17-2010 | CAD FILE                 | 00546501ME          | SIZE | DRAWING NO. | REV. |
|  |          |           |     | DIST                        |            |                          |                     | A    | 005465ME-01 |      |

**CERTIFICATION DATA SHEET**

**Model#:** 80T34FH5516 A  
**CONN. DIAGRAM:** 00546501ME  
**OUTLINE:** 16959500ME

**WINDING#:** QT8022 FR 3  
**ASSEMBLY:** F2/F1 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

| HP          | KW        | SYNC. RPM | F.L. RPM  | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------------|-----------|-----------|-----------|-------|-----------|----------|--------|
| 1 1/2&1 1/2 | 1.12&1.12 | 3600      | 3450&2850 | 80    | TEFC      | K        | B      |

| PH | Hz    | VOLTS               | FL AMPS             | START TYPE          | DUTY           | INSL | S.F       | AMB°C | ELEVATION |
|----|-------|---------------------|---------------------|---------------------|----------------|------|-----------|-------|-----------|
| 3  | 60/50 | 230/460#200/<br>400 | 4.0/2.0&4.4/2.<br>2 | LINE OR<br>INVERTER | CONTINUOU<br>S | F5   | 1.15/1.15 | 40    | 3300      |

| FULL LOAD EFF: 84  | 3/4 LOAD EFF: 84.3 | 1/2 LOAD EFF: 81.6 | GTD. EFF | ELEC. TYPE        | NO LOAD AMPS |
|--------------------|--------------------|--------------------|----------|-------------------|--------------|
| FULL LOAD PF: 83.6 | 3/4 LOAD PF: 81.3  | 1/2 LOAD PF: 71.1  | 0        | SQ CAGE INV RATED | 1.8 / .9     |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE   | B.D. TORQUE   | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 27 LB-FT    | 33 / 16.5         | 119 LB-FT 441 | 130 LB-FT 481 | 31          |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|------------|-----------|-----------------|--------------|-------------------|
| 0 dBA                  | 10 dBA      | 0 LB-FT^2  | 0 LB-FT^2 | 0 SEC.          | 0            | - LBS.            |

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT         |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|---------------|
| B5              | 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 | STANDARD IEC | NONE       | NONE        | AISI 1045 (C-240) | ALUMINUM       |
| 6204     | 6204 |            |              |            |             |                   |                |

| 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: CONSTANT 20:1 |
| 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: 06/28/2017 04:09:19 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.



**MARATHON ELECTRIC CORPORATION**  
TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer

Curve at

460 Volts  
60 HZ  
1.5 HP

HP 1.5&1.5

PHASE 3

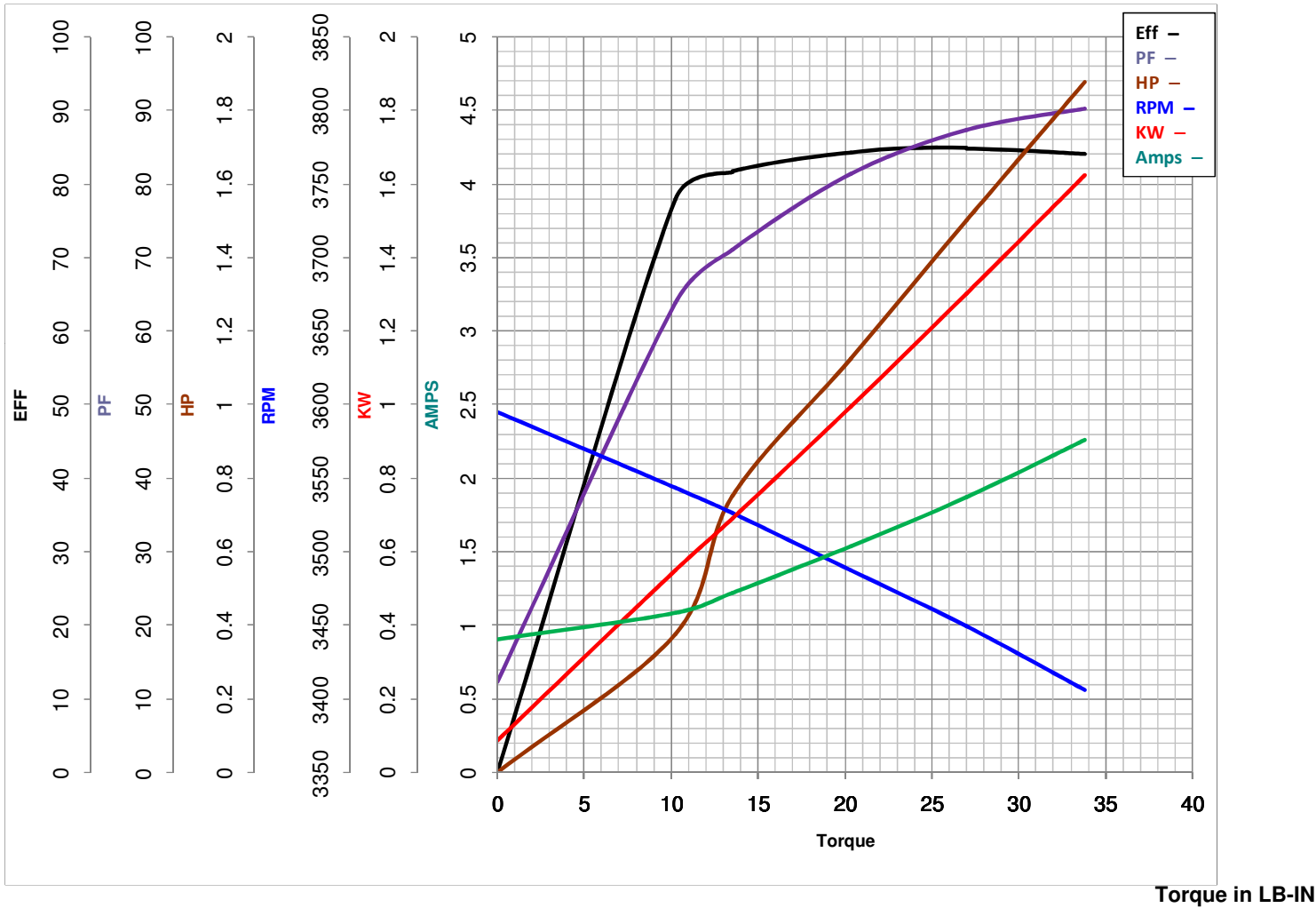
Model No 80T34FH5516

VOLTS 230/460&200/400

Catalog No R395

HZ 60&50

RPM 3450&2850



|           |                |       |           |                |       |
|-----------|----------------|-------|-----------|----------------|-------|
| FL TORQUE | <u>27</u>      | LB-IN | FL AMPS   | <u>4.0/2.0</u> |       |
| BD TORQUE | <u>130.0</u>   | LB-IN | PU TORQUE | <u>118.0</u>   | LB-IN |
| LR TORQUE | <u>119</u>     | LB-IN | LR AMPS   | <u>16.5</u>    |       |
| WINDING   | <u>QT8022-</u> |       | Date      |                |       |

## 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 : 080T34FH5516

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

Catalog No : R395

Rework No : N/A

Directives :

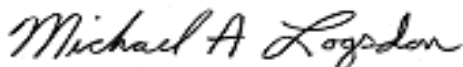
Low Voltage Directive 2014/35/EU

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

Authorized Representative in the Community:



Julian Clark  
Marketing Engineer

Created on 09/01/2022

**CE 22**