

PRODUCT INFORMATION PACKET

Model No: 284TTDC6079

Catalog No: U288

General Purpose Motor, 15 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 284T Frame, DP



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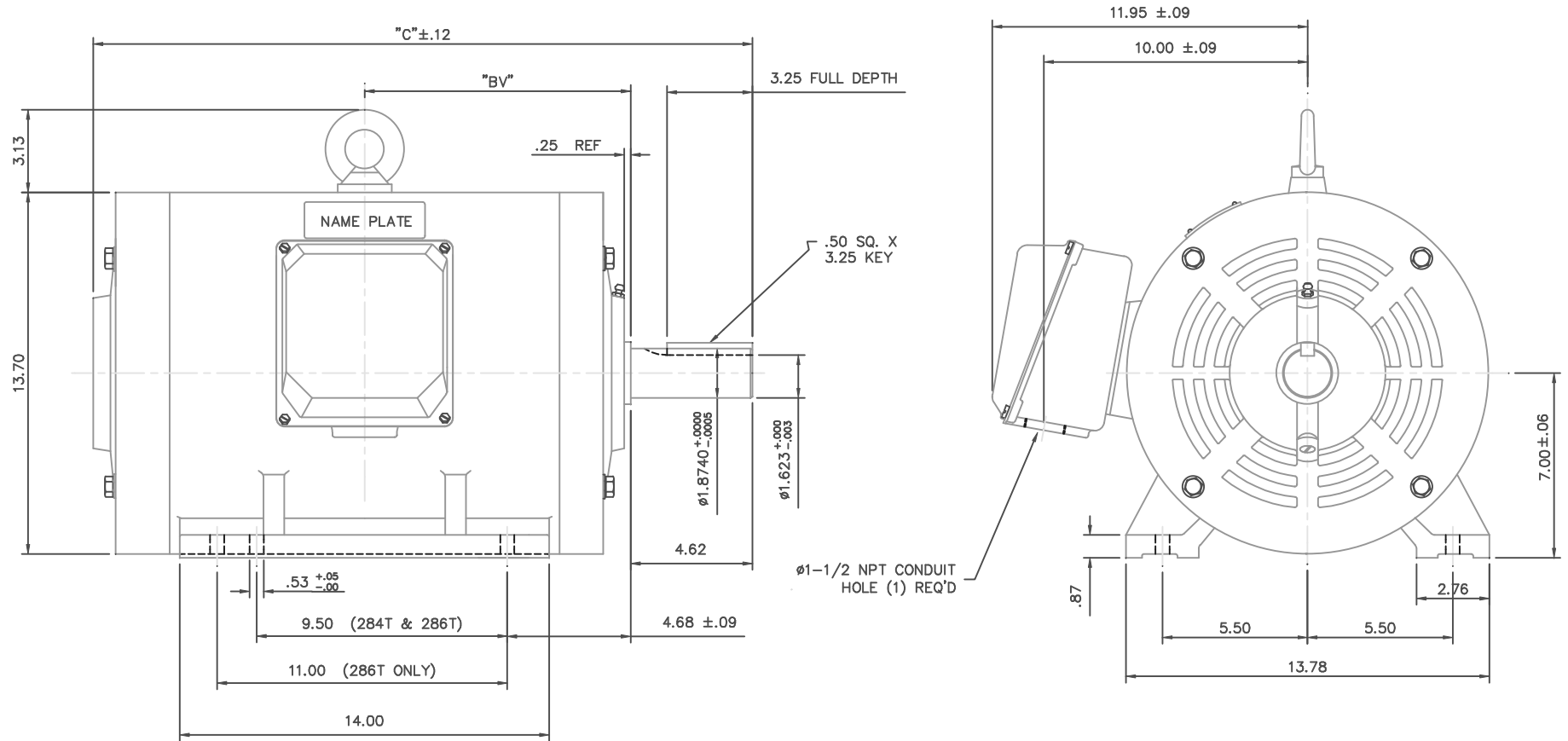
Nameplate Specifications

| | | | |
|------------------------|---------------|----------------------------|------------|
| Output HP | 15 Hp | Output KW | 11.2 kW |
| Frequency | 60 Hz | Voltage | 575 V |
| Current | 15.8 A | Speed | 1184 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 92.2 % | Power Factor | 78 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Frame | 284T | Enclosure | Drip Proof |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6312 | Opp Drive End Bearing Size | 6211 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 12 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|------------------------------|-------------------|------------------|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
| Poles | 6 | Rotation | Reversible |
| Resistance Main | .436 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | T | Overall Length | 23.54 in |
| Shaft Diameter | 1.875 in | Shaft Extension | 4.62 in |
| Assembly/Box Mounting | F1/F2 CAPABLE | Inverter Load | CONSTANT 10:1 |
| Connection Drawing | 00519001ME | Outline Drawing | 16955260ME |

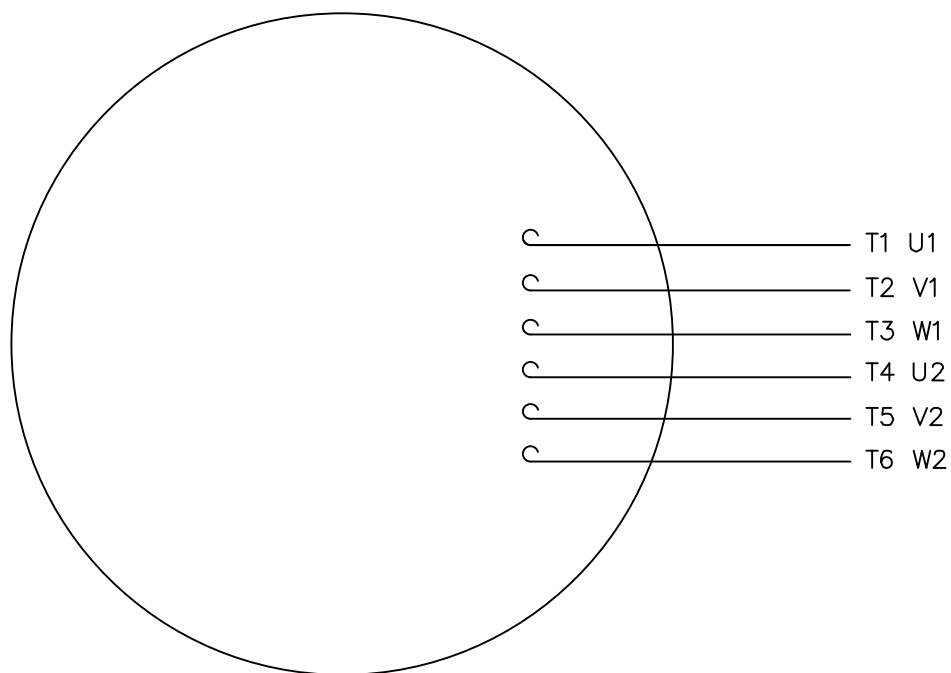
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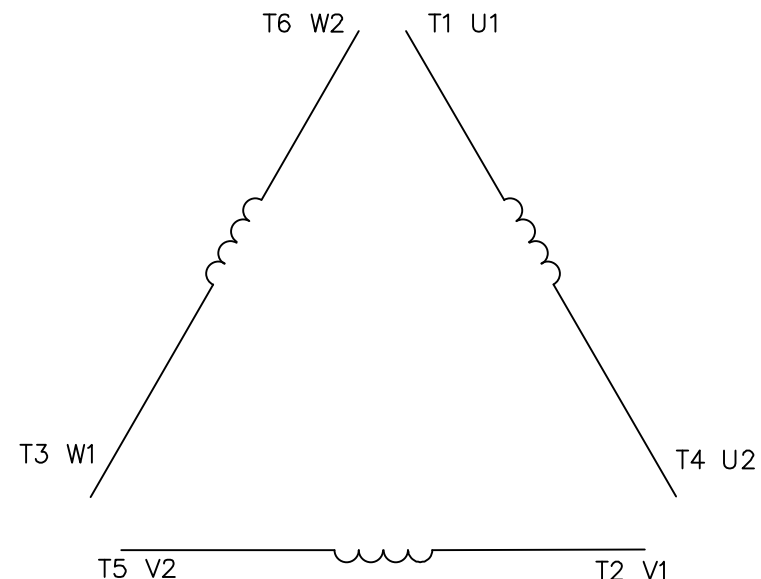
NOTE: 286T HAS 6 MTG. HOLES,
USING 284T AND 286T LOCATIONS

| FRAME DESIGN | "C" | "BV" |
|-----------------|-------|-------|
| 284T | 23.54 | 9.33 |
| 286T | 25.00 | 10.06 |


| | | | TOLERANCES UNLESS SPECIFIED | | MARATHON ELECTRIC | DRAWN J.K. 04/05/99 | |
|--|------------------------------|--------------|--------------------------------|--------|---|---------------------|-------------|
| | | | DEC. | INCHES | | CHK | PG 04/07/99 |
| | | | .X | ±.1 | TITLE OUTLINE 280T FRAME DRIP PROOF - RIGID NEW CON-BOX | APPD | SCALE 1=4 |
| 2 | REVISED DRAWING | RJW 04-25-07 | .XX | ±.03 | | | |
| A | REVISED TO NEW BORDER FORMAT | DWF 12/14/01 | .XXX | ±.005 | | REF | |
| | | | .XXXX | ±.0005 | | FMF | |
| NO. | REVISION | BY & DATE | CHK | ANG | ±1/2" | 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 | 16955260me |
| | | | | | | SIZE | DRAWING NO. |
| | | | | | | B | 169552-60 |
| | | | | | | | REV. 2 |



LINE LEADS



| | L1 | L2 | L3 | JOIN |
|----------------|--------------------|--------------------|--------------------|--------------------------|
| START (WYE) | T1 U1 | T2 V1 | T3 U2 | (T4,T5,T6) (U2,V2,W2) |
| RUN (DELTA) | (T1,T6) (U1,W2) | (T2,T4) (V1,U2) | (T3,T5) (W1,V2) | |

| | | | | | | | | | |
|--|-------------------------|--------------|-------|--------------------------------|--|---|-------------------|-------------|------|
| | | | | TOLERANCES UNLESS SPECIFIED | |  | DRAWN PG 05/07/82 | | |
| | | | | DEC. | INCHES | | CHK | | |
| | | | | .X | ±.1 | | APPD TEM 05/07/82 | | |
| 03 | ADDED IEC DESIGNATIONS | MOL 04/27/12 | .XX | ±.01 | TITLE EXTERNAL WIRING DIAGRAM STAR START – DELTA RUN | | | SCALE 1=1 | |
| 02 | REMOVED OBSOLETE STATUS | KJH 06/28/99 | .XXX | ±.005 | | | | REF | |
| 01 | REDRAWN ON CAD | DBT 05/30/97 | .XXXX | ±.0005 | MAT'L. Y–CONNECTED START – DELTA CONNECTED RUN | | | FMF | |
| NO. | REVISION | BY & DATE | CHK | ANG | ±1/2" | FINISH SINGLE VOLTAGE | | 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 00519001ME | | SIZE | DRAWING NO. | REV. |
| | | | DIST | | | | A | 005190–01ME | 03 |

CERTIFICATION DATA SHEET

Model#: 284TTDC6079 AA
 CONN. DIAGRAM: 00519001ME
 OUTLINE: 169552-60ME

WINDING#: T14506015 NONE 4
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|------|-----------|----------|-------|-----------|----------|--------|
| 15 | 11.2 | 1200 | 1184 | 284T | DP | G | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|----|-------|---------|---------------------|------------|------|-----------|-------|-----------|
| 3 | 60 | 575 | 15.8 | LINE OR INVERTER | CONTINUOUS | F2 | 1.15/1.15 | 40 | 3300 |

| | | | | | |
|---------------------|--------------------|-------------------|----------|-------------------|--------------|
| FULL LOAD EFF: 92.2 | 3/4 LOAD EFF: 92.4 | 1/2 LOAD EFF: 92 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
| FULL LOAD PF: 78 | 3/4 LOAD PF: 71.5 | 1/2 LOAD PF: 60.5 | 91.7 | SQ CAGE INV RATED | 7.2 |

| | | | | |
|-------------|-------------------|--------------|---------------|-------------|
| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
| 66 LB-FT | 88 | 99 LB-FT 150 | 213 LB-FT 323 | 35 |

| | | | | | | |
|---------------------------|-------------|------------|-----------|-----------------|-----------------|----------------------|
| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
| 67 dBA | 77 dBA | - 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 |
|--------------------|---------------------|---------------|-------------|----------------|-----------------------|---------------|---------|------------------|
| STANDARD | 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 | | | | | | |
| 6312 | 6211 | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |

| 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

| | | | | |
|---------------------------------|---------------------------------------|--------|---------|--|
| * N O T E S * | INVERTER TORQUE: CONSTANT 10:1 | | | |
| | INV. HP SPEED RANGE: 1.5 X BASE SPEED | | | |
| | ENCODER: NONE | | | |
| | NONE NONE | | | |
| | NONE NONE PPR | | | |
| | BRAKE: NONE NONE | | | |
| | NONE P/N NONE | | | |
| | NONE NONE | | | |
| | NONE FT-LB | NONE V | NONE Hz | |

DATE: 06/23/2017 08:19:03 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 29-06-2017

284TTDC6079

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



Submittal

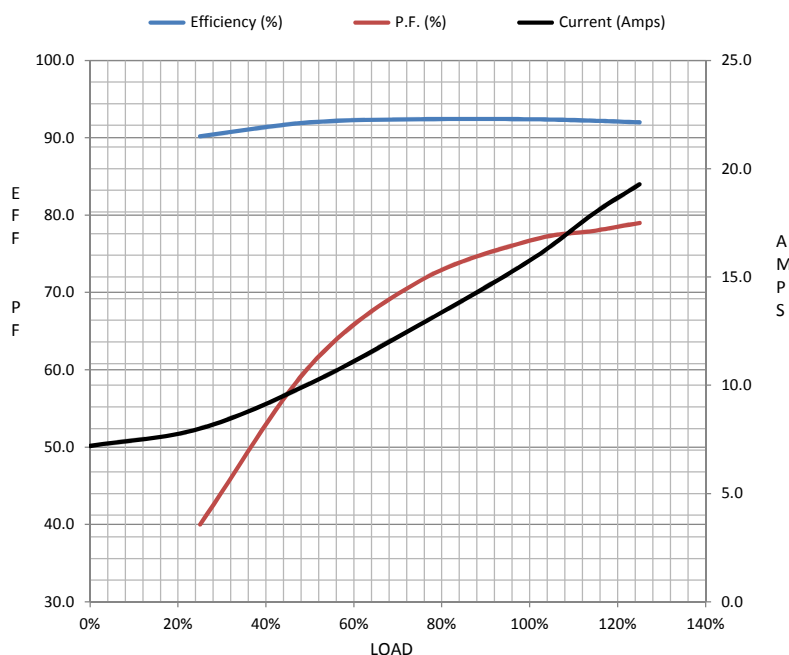
Data @ 575 V

Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|----------------|------|------|------|------|------|-------|------|------|--|
| Current (Amps) | 7.2 | 8.0 | 10.1 | 12.8 | 15.8 | 18.0 | 19.3 | 88.0 | |
| Torque (ft-lb) | 0.00 | 17.0 | 33.0 | 49.6 | 66.0 | 76.5 | 83.2 | 99.0 | |
| RPM | 1200 | 1197 | 1195 | 1190 | 1185 | 1,184 | 1183 | 0 | |
| Efficiency (%) | | 90.2 | 92.0 | 92.4 | 92.4 | 92.2 | 92.0 | | |
| P.F. (%) | 4.4 | 40.0 | 60.5 | 71.5 | 76.7 | 78.0 | 79.0 | 0.0 | |

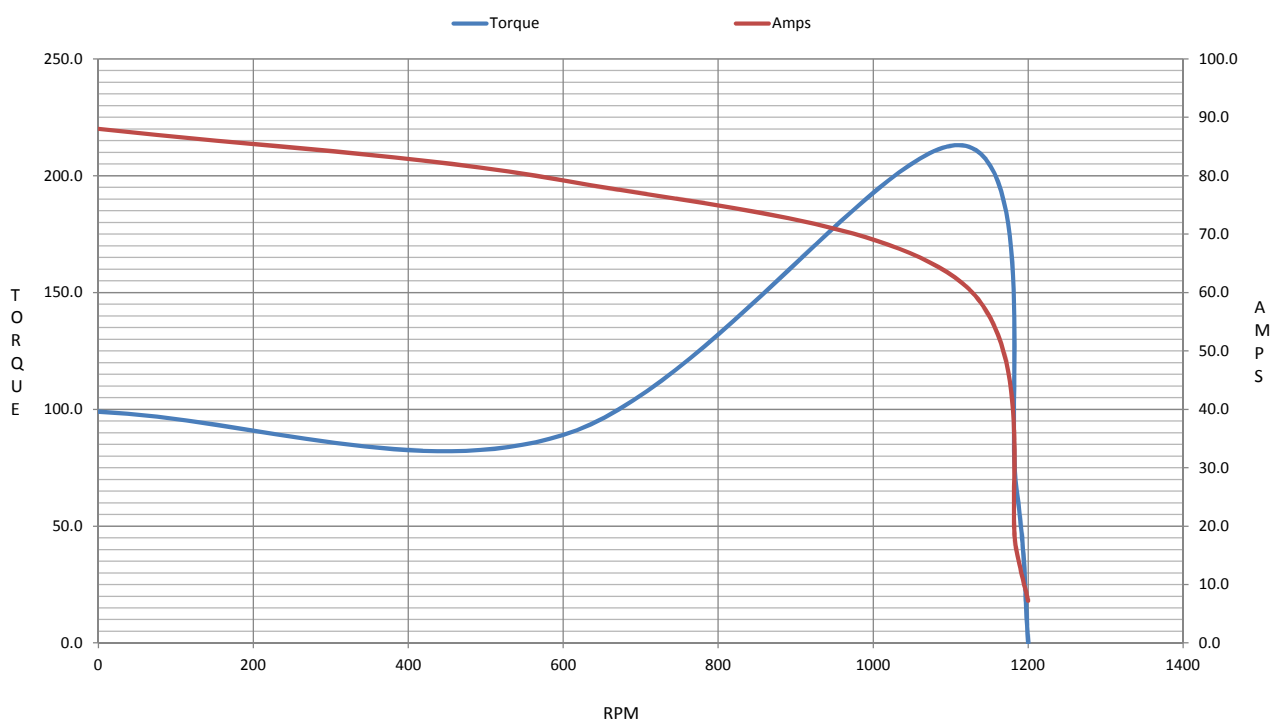
Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle | Information Block | |
|----------------|------|---------|------|-------|------|-------------------|------|
| Speed (RPM) | 0 | 600 | 1115 | 1185 | 1200 | HP | 15.0 |
| Current (Amps) | 88.0 | 79.2 | 61.6 | 15.8 | 7.2 | Sync. RPM | 1200 |
| Torque (ft-lb) | 99.0 | 89.0 | 213 | 66.0 | 0.00 | Frame | 284 |



| | | | | |
|----------------------------|----------------|--------|--------|--------|
| Frame | 284 | | | |
| Enclosure | DP | | | |
| Construction | TDC | | | |
| Voltage | 575 V | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | G | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 35 ° C | | | |
| Duty | CONT | | | |
| Ambient | 40 ° C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk² | 0.00 Lb-Ft² | | | |
| Ref Wdg | T14506015 NONE | | | |
| Sound Pressure @ 1M | 67 dBA | | | |
| VFD Rating | CONSTANT 10:1 | | | |
| Outline Dwg | 169552-60ME | | | |
| Conn. Diag | 51090.01 | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 365THFS8036 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

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 : 284TTDC6079

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

Catalog No : U288

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