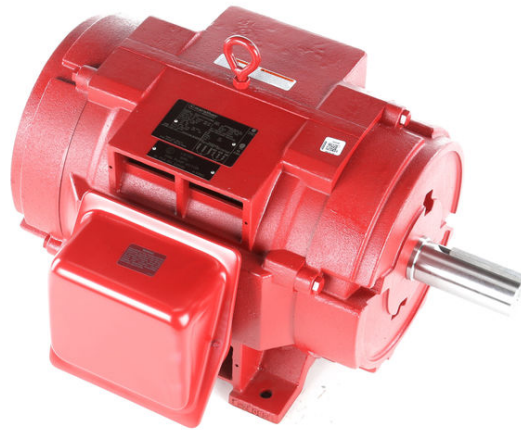


# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 284TTDBD4027  
Catalog No: U598  
25,1800,DP,284T,3/60/230/460  
Fire Pump



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**REGAL**<sup>®</sup>



### Nameplate Specifications

|                            |                    |                        |                   |
|----------------------------|--------------------|------------------------|-------------------|
| Output HP                  | <b>25 Hp</b>       | Output KW              | <b>18.7 kW</b>    |
| Frequency                  | <b>60 Hz</b>       | Voltage                | <b>230/460 V</b>  |
| Current                    | <b>61.0/30.5 A</b> | Speed                  | <b>1772 rpm</b>   |
| Service Factor             | <b>1.15</b>        | Phase                  | <b>3</b>          |
| Efficiency                 | <b>91.7 %</b>      | Duty                   | <b>Continuous</b> |
| Insulation Class           | <b>F</b>           | Design Code            | <b>B</b>          |
| KVA Code                   | <b>F</b>           | Frame                  | <b>284T</b>       |
| Enclosure                  | <b>Drip Proof</b>  | Overload Protector     | <b>No</b>         |
| Ambient Temperature        | <b>50 °C</b>       | Drive End Bearing Size | <b>6311</b>       |
| Opp Drive End Bearing Size | <b>6210</b>        | UL                     | <b>No</b>         |
| CSA                        | <b>Y</b>           | CE                     | <b>Y</b>          |
| IP Code                    | <b>23</b>          |                        |                   |

### Technical Specifications

|                       |                                    |                       |   |
|-----------------------|------------------------------------|-----------------------|---|
| Electrical Type       | <b>Squirrel Cage Induction Run</b> | Starting Method       | <b>Part Wdg Start Low Volt Only &amp; Wye Start Delta Run</b> |
| Poles                 | <b>4</b>                           | Rotation              | <b>Reversible</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>Rolled Steel</b>                | Shaft Type            | <b>T</b>  |
| Overall Length        | <b>25.71 in</b>                    | Frame Length          | <b>12.59 in</b>   |
| Shaft Diameter        | <b>1.875 in</b>                    | Shaft Extension       | <b>4.62 in</b>  |
| Assembly/Box Mounting | <b>F1/F2 CAPABLE</b>               |                       |   |
| Outline Drawing       | <b>SS620687-284T</b>               | Connection Diagram    | <b>EE7308AA</b>   |





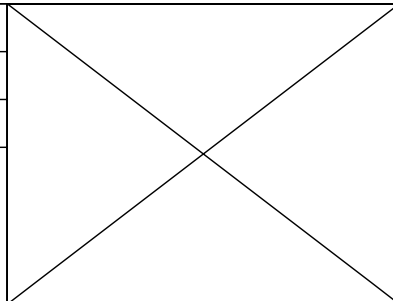
### LOW VOLTAGE



### HIGH VOLTAGE



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



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER P.O. #:   
 ORDER #: EE7308AA   
 REFERENCE MODEL #: 284TTDBD4027   
 CONN. DIAGRAM: SS620687 CAT #: U598   
 OUTLINE: IE3L1804110 NONE 2 CUSTOMER PART #:   
 WINDING: IE3L1804110 NONE 2 MOUNTING: F1/F2 CAPABLE   
 SPEED:   
 TYPICAL MOTOR PERFORMANCE DATA

| HP | KW   | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|----|------|----------|--------|-------|-----------|------|----------|--------|
| 25 | 18.7 | 1800     | 1772   | 284T  | DP        | TDC  | F        | B      |

| PH          | HZ              | VOLTS                   | AMPS                      | START TYPE         | DUTY        | INSL      | S.F.    | AMB             | ELEV. |
|-------------|-----------------|-------------------------|---------------------------|--------------------|-------------|-----------|---------|-----------------|-------|
| 3           | 60/50           | 230/460#190/380         | 61/30.5&80/30             | WS(LV ONLY) & YDRU | CONT        | F         | 1.15    | 50              | 3300  |
|             | F.L. EFF        | 91.7                    | 3/4 LD EFF                | 91.7               | 1/2 LD EFF  | 91.0      | GTD EFF | ELECT. TYPE     |       |
|             | F.L. PF         | 83.0                    | 3/4 LD PF                 | 79.0               | 1/2 LD PF   | 69.0      | 90.2    | SQ CAGE IND RUN |       |
| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE             | B.D. TORQUE               | F.L. RISE (°C)     |             |           |         |                 |       |
| 74.0 LB-FT  | 175             | 120 LB-FT               | 162%                      | 170 LB-FT          | 230%        | 40        |         |                 |       |
| @ 3 FT.     | POWER           | ROTOR WK <sup>2</sup>   | MAX. LOAD WK <sup>2</sup> | SAFE STALL TIME    | START/SHOUR | MOTOR WGT |         |                 |       |
| 999 DBA     | 1008 DBA        | 0.00 LB-FT <sup>2</sup> | 0 LB-FT <sup>2</sup>      | 20 SEC.            | 2           | 0 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          | NONE               | NO                      | NONE     | RED (ENAMEL)   |
| BEARINGS        |                  | GREASE     | SHAFT TYPE        | SPECIAL DE  | SPECIAL ODE        | SHAFT                   | MATERIAL | FRAME MATERIAL |
| DE BALL 6311    | ODE BALL 6210    | POLYREX EM | T                 | NONE        | NONE               | 1045 HOT ROLLED (C-204) |          | ROLLED STEEL   |

| 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         |
| 0.352        | 0.147        | 0.873        | 1.066        | 21.943       | 0.150              | ODE           |

|     |                           |                       |  |
|-----|---------------------------|-----------------------|--|
| * N |                           | INVERTER TORQUE: NONE |  |
| O   | INV. HP SPEED RANGE: NONE |                       |  |
| T   | ENCODER: NONE             |                       |  |
| E   | BRAKE: NONE               |                       |  |
| S   | FT-LB: NONE               |                       |  |
|     | VOLTAGE: NONE             |                       |  |
|     | HZ: NONE                  |                       |  |

PREPARED BY: FAREEDA DUDEKULA  
 DATE: 8/29/2018  
 FORM: 3531 REV 4 2/27/06  
 UL: NONE

