

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 364TSTD4024

Catalog No: U523A

Fire Pump Motor, 75 HP, 3 Ph, 60 Hz, 190/380-400 V, 3600 RPM, 364TS Frame, DP



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**RegalRexnord**

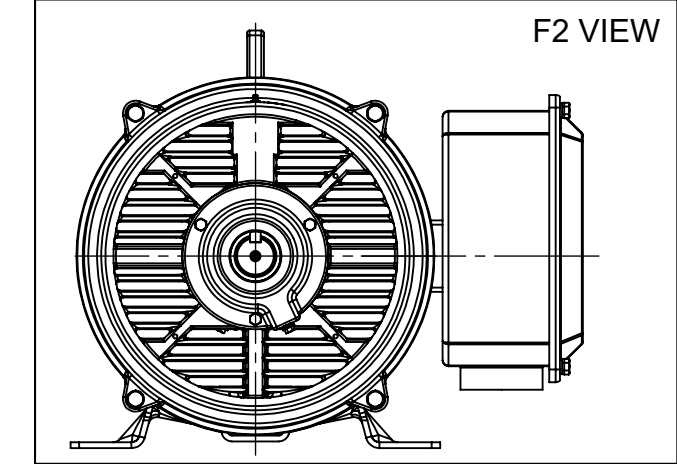
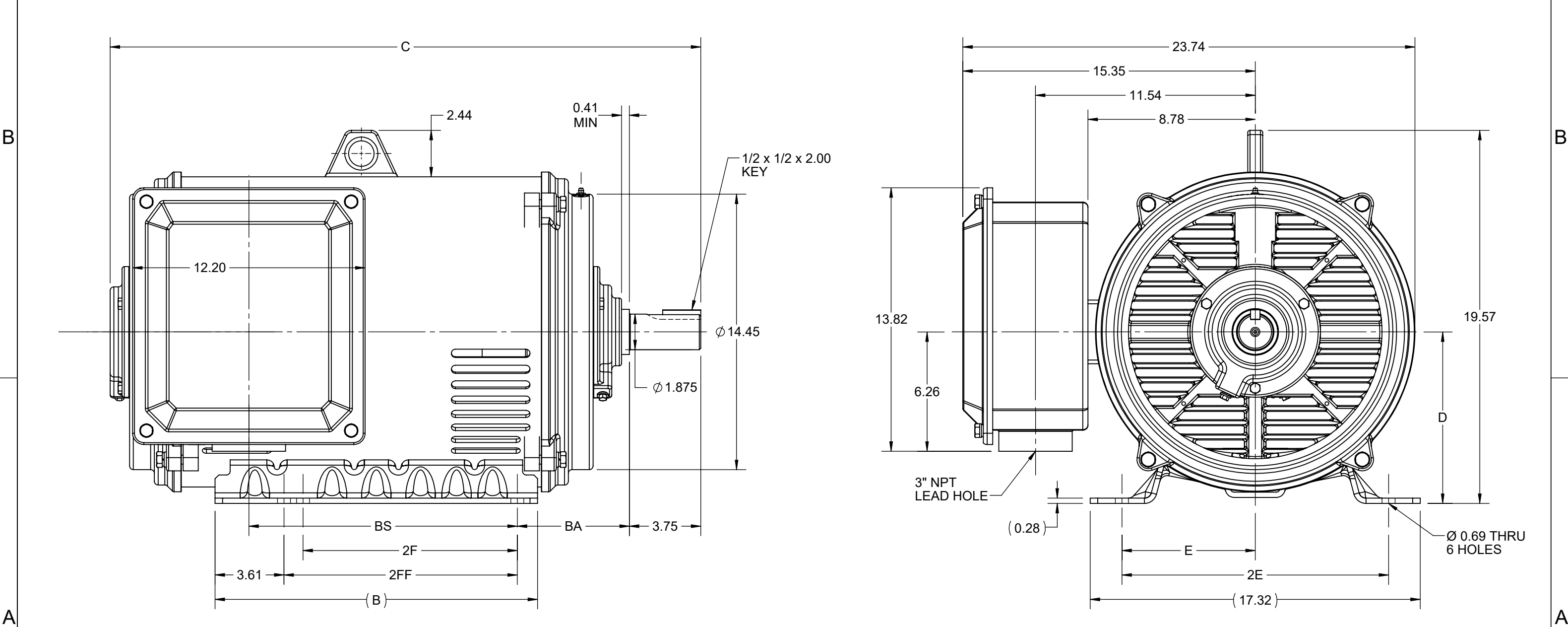
## Nameplate Specifications

|                        |                    |                            |               |
|------------------------|--------------------|----------------------------|---------------|
| Output HP              | 75 Hp              | Output KW                  | 56.0 kW       |
| Frequency              | 60 Hz              | Voltage                    | 190/380-400 V |
| Current                | 206.0/103.0-99.0 A | Speed                      | 3568 rpm      |
| Service Factor         | 1.15               | Phase                      | 3             |
| Efficiency             | 93 %               | Power Factor               | 88            |
| Duty                   | Continuous         | Insulation Class           | F             |
| Design Code            | B                  | KVA Code                   | F             |
| Frame                  | 364TS              | Enclosure                  | Drip Proof    |
| Thermal Protection     | No Protection      | Ambient Temperature        | 50 °C         |
| Drive End Bearing Size | 6312               | Opp Drive End Bearing Size | 6312          |
| UL                     | Listed             | CSA                        | Y             |
| CE                     | Y                  | IP Code                    | 23            |
| Number of Speeds       | 1                  |                            |               |

## Technical Specifications

|                       |                             |                       |                                      |
|-----------------------|-----------------------------|-----------------------|--------------------------------------|
| Electrical Type       | Squirrel Cage Induction Run | Starting Method       | Part Wdg Start & Wye Start Delta Run |
| Poles                 | 2                           | Rotation              | Reversible                           |
| Resistance Main       | .116 Ohms                   | Mounting              | Rigid Base                           |
| Motor Orientation     | Horizontal                  | Drive End Bearing     | Ball                                 |
| Opp Drive End Bearing | Ball                        | Frame Material        | Cast Iron                            |
| Shaft Type            | TS                          | Overall Length        | 29.57 in                             |
| Frame Length          | 17.32 in                    | Shaft Diameter        | 1.875 in                             |
| Shaft Extension       | 3.75 in                     | Assembly/Box Mounting | F1/F2 CAPABLE                        |
| Outline Drawing       | SS620748-364TS              | Connection Drawing    | EE7308AA                             |

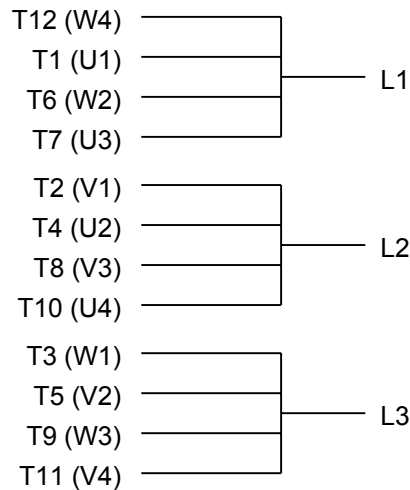
| 4        |       |       |      |      | 3     |       |       |      |       | 2        |       | 1 |
|----------|-------|-------|------|------|-------|-------|-------|------|-------|----------|-------|---|
| DASH NO. | B     | C     | D    | E    | 2E    | 2F    | 2FF   | BA   | BS    | MOUNTING | FRAME |   |
| 100      | 16.93 | 29.44 | 9.00 | 7.00 | 14.00 | 11.25 | 12.25 | 5.88 | 12.52 | F1 OR F2 | 364TS |   |
| 200      |       | 31.01 |      |      |       |       |       |      | 14.09 |          | 365TS |   |



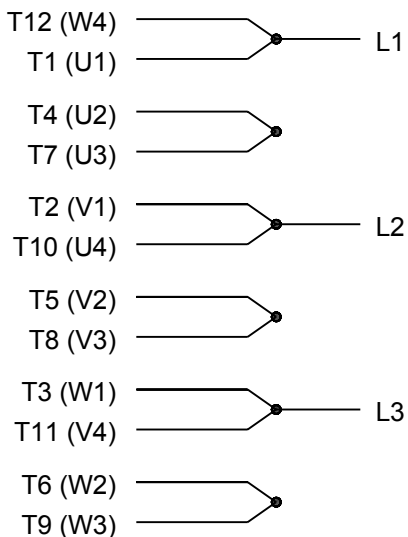
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|
| DRAWING REVISION<br>C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | REVISION BY<br>RAM | REV DATE/© DATE<br>01/02/2022 |
| REQUEST NUMBER<br>CR-0006669                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | APPROVED BY<br>SBD | DATE<br>01/02/2022            |
| REQUEST NUMBER DESCRIPTION<br>VIEWS UPDATED AS PER 3D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                               |
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ARE FOR REFERENCE ONLY

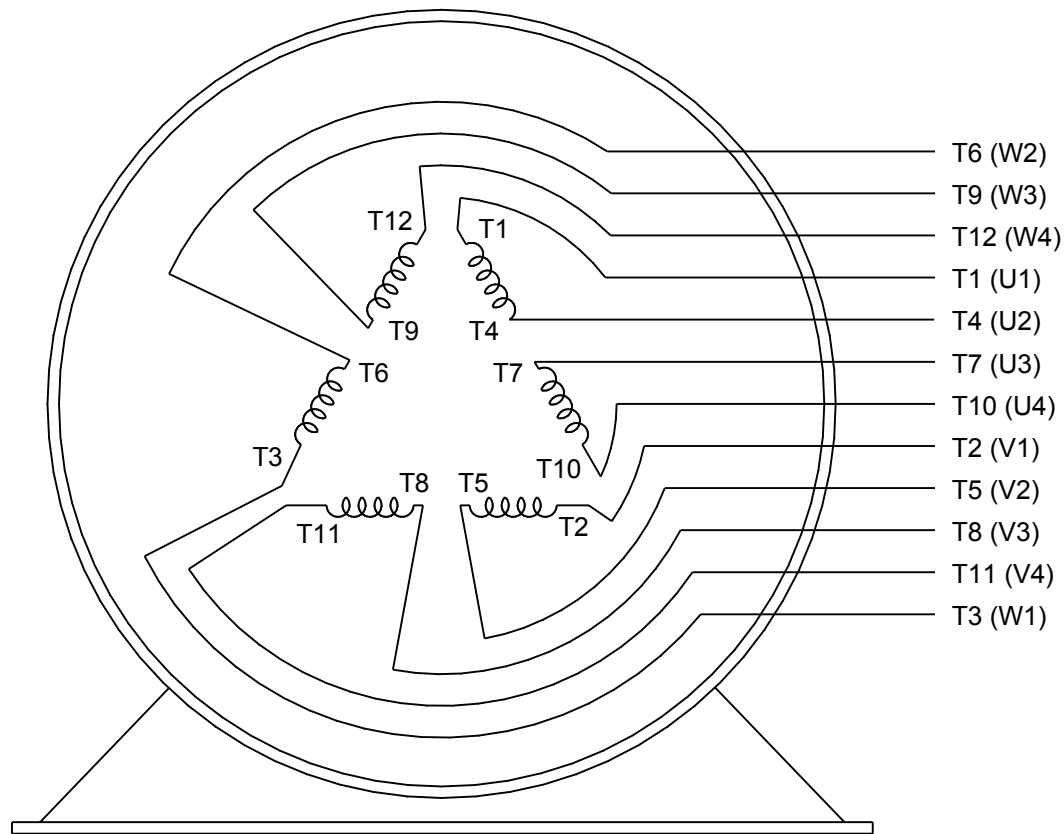
|                                                                                                                 |                                                                                                                  |                            |                 |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
| DRAWN BY<br>ZHU XIAOWEI                                                                                         |  Regal Beloit America, Inc. |                            |                 |
| DATE<br>27/04/2021                                                                                              |                                                                                                                  |                            |                 |
| APPROVED BY                                                                                                     | DESCRIPTION<br>OUTLINE<br>364/365TS FR NEMA ODP RS                                                               |                            |                 |
| DATE                                                                                                            |                                                                                                                  |                            |                 |
| REFERENCE                                                                                                       | MATERIAL                                                                                                         | PROCESS/FINISH             |                 |
| THIRD ANGLE<br>PROJECTION  | SIZE<br>B                                                                                                        | DRAWING NUMBER<br>SS620748 | SHEET<br>1 OF 1 |



## LOW VOLTAGE



## HIGH VOLTAGE



## VIEW OF TERMINAL END

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|
| DRAWING REVISION<br>K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | REVISION BY<br>AJW    | DATE<br>07-17-2015 |
| ECO<br>ECO-0081632                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | APPROVED BY<br>T. VUE | DATE<br>07-17-2015 |
| ECO DESCRIPTION<br>REV'D IEC MARKINGS PER IEC 60034-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                    |
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|                    |                           |
|--------------------|---------------------------|
| DRAWN BY<br>LZ     | THIRD ANGLE<br>PROJECTION |
| DATE<br>01-12-1994 |                           |
| APPROVED BY<br>GK  |                           |
| DATE<br>01-14-1994 |                           |
| REFERENCE          |                           |

|                                                                                                                  |                            |                 |
|------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
|  Regal Beloit America, Inc. |                            |                 |
| DESCRIPTION<br>CONN DIAGRAM-EXTERNAL<br>3Ø-2/1 DELTA-12 LEADS                                                    |                            |                 |
| MATERIAL                                                                                                         | PROCESS/FINISH             |                 |
| SIZE<br>A                                                                                                        | DRAWING NUMBER<br>EE7308AA | SHEET<br>1 OF 1 |



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

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CUSTOMER: \_\_\_\_\_ CUSTOMER P.O. #: \_\_\_\_\_  
ORDER #: \_\_\_\_\_ REFERENCE MODEL #: 364TSTD4024  
CONN. DIAGRAM: EE7308AA CAT #: U523A  
OUTLINE: SS620748 CUSTOMER PART #: \_\_\_\_\_  
WINDING: IE3L2252110 NONE 3 MOUNTING: F1/F2 CAPABLE  
SPEED: \_\_\_\_\_

### TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|----|----|----------|--------|-------|-----------|------|----------|--------|
| 75 | 56 | 3600     | 3568   | 364TS | DP        | TDC  | F        | B      |

| PH | HZ | VOLTS       | AMPS       | START TYPE         | DUTY | INSL | S.F. | AMB | ELEV. |
|----|----|-------------|------------|--------------------|------|------|------|-----|-------|
| 3  | 60 | 190/380-400 | 206/103-99 | WS(LV ONLY) & YDRU | CONT | F    | 1.15 | 50  | 3300  |

| F.L. EFF | 93.0 | 3/4 LD EFF | 93.0 | 1/2 LD EFF | 92.4 | GTD EFF | ELECT. TYPE     |
|----------|------|------------|------|------------|------|---------|-----------------|
| F.L. PF  | 88.0 | 3/4 LD PF  | 86.0 | 1/2 LD PF  | 80.0 | 91.7    | SQ CAGE IND RUN |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE    | B.D. TORQUE    | F.L. RISE (°C) |
|-------------|-----------------|----------------|----------------|----------------|
| 110 LB-FT   | 581             | 168 LB-FT 153% | 265 LB-FT 241% | 45             |

| @ 3 FT. | POWER    | ROTOR WK²   | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|---------|----------|-------------|---------------|-----------------|-------------|-----------|
| 999 dBA | 1008 dBA | 0.00 LB-FT² | 0 LB-FT²      | 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       | ODE  |            |            |            |             |                         |                |
| BALL     | BALL | POLYREX EM | TS         | NONE       | NONE        | 1045 HOT ROLLED (C-204) | CAST IRON      |
| 6312     | 6312 |            |            |            |             |                         |                |

| 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 |
|--------------|--------------|--------------|--------------|--------------|--------------------|-------|
| 0.053        | 0.021        | 0.226        | 0.286        | 8.343        | 0.150              | ODE   |

|                                                  |                               |                                                    |
|--------------------------------------------------|-------------------------------|----------------------------------------------------|
| *<br>N<br>O<br>T<br>E<br>S<br>*                  |                               | INVERTER TORQUE: NONE<br>INV. HP SPEED RANGE: NONE |
|                                                  |                               |                                                    |
|                                                  |                               |                                                    |
|                                                  |                               |                                                    |
|                                                  |                               |                                                    |
|                                                  | ENCODER: NONE<br>NONE<br>NONE | NONE PPR                                           |
| PREPARED BY: FAREEDA DUDEKULA<br>DATE: 8/29/2018 | BRAKE: NONE<br>NONE<br>NONE   | NONE<br>NA<br>NONE                                 |
|                                                  | FT-LB: NA<br>VOLTAGE: NONE    | HZ:                                                |
|                                                  | UL: NONE                      |                                                    |

FORM: 3531 REV\_4 2/27/06

## Data Sheet

Date: 12/13/2018

Customer: \_\_\_\_\_

Attention: \_\_\_\_\_

Submitted by: FAREEDA DUDEKULA



364TSTD4024

Submittal

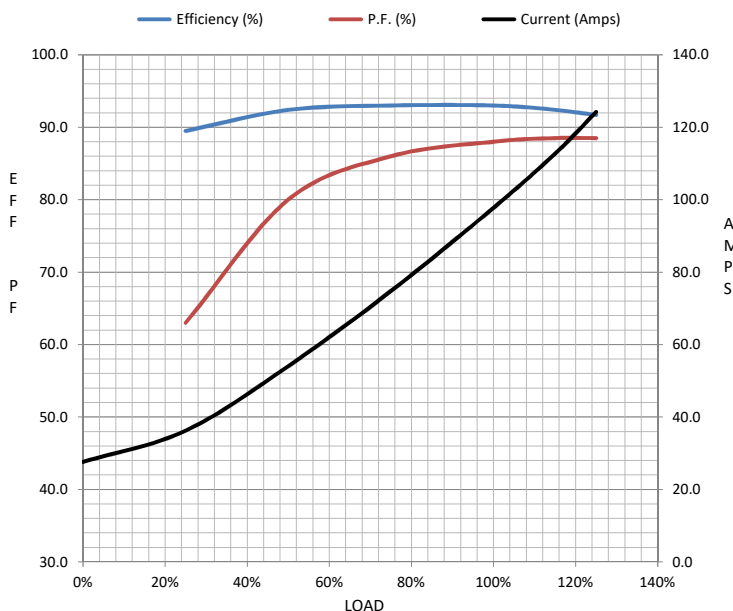
Data @ 400 V

## Motor Load Data

| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115% | 125% | LR   |  |
|----------------|------|------|------|------|------|------|------|------|--|
| Current (Amps) | 27.6 | 36.2 | 54.1 | 74.8 | 97.8 | 113  | 124  | 581  |  |
| Torque (ft-lb) | 0.00 | 27.5 | 55.0 | 82.5 | 110  | 127  | 138  | 168  |  |
| RPM            | 3600 | 3590 | 3585 | 3575 | 3568 | 3562 | 3558 | 0    |  |
| Efficiency (%) |      | 89.5 | 92.4 | 93.0 | 93.0 | 92.4 | 91.7 |      |  |
| P.F. (%)       | 7.5  | 63.0 | 80.0 | 86.0 | 88.0 | 88.5 | 88.5 | 33.0 |  |

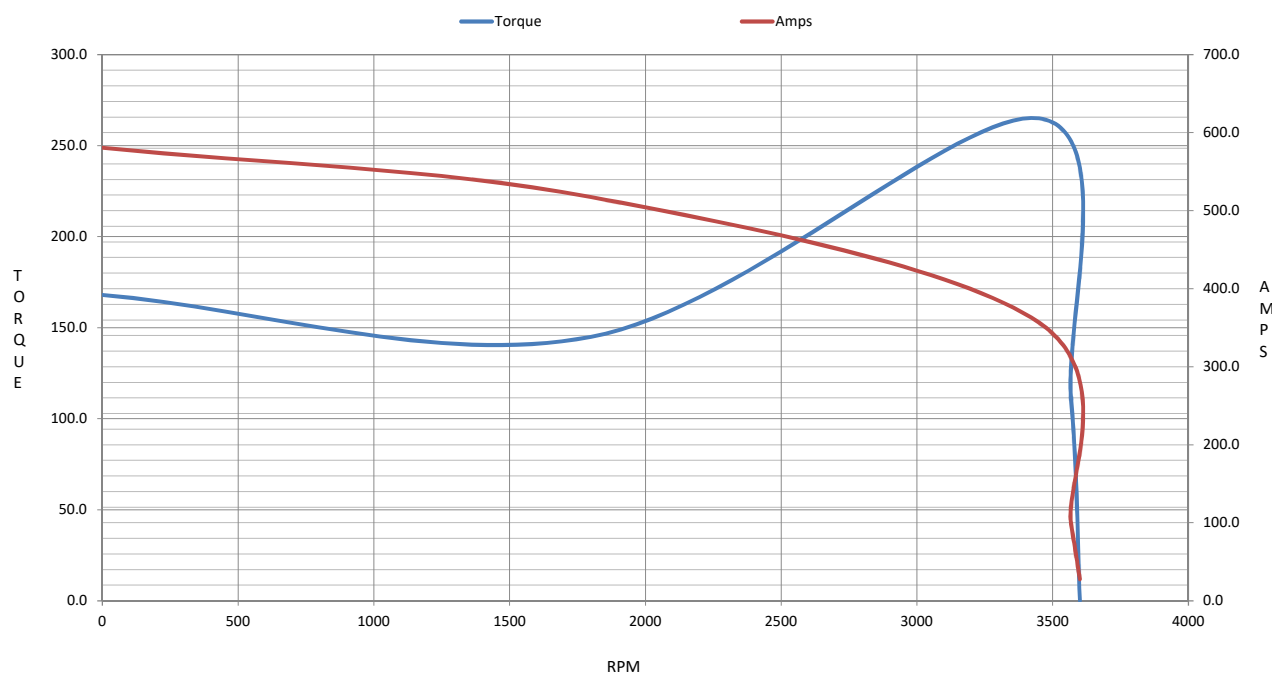
## Motor Speed Data

|                | LR  | Pull-Up | BD   | Rated | Idle | Information Block |      |
|----------------|-----|---------|------|-------|------|-------------------|------|
| Speed (RPM)    | 0   | 1800    | 3450 | 3568  | 3600 | HP                | 75.0 |
| Current (Amps) | 581 | 518     | 357  | 97.8  | 27.6 | Sync. RPM         | 3600 |
| Torque (ft-lb) | 168 | 145     | 265  | 110   | 0.00 | Frame             | 364  |



|                            |                  |        |        |        |
|----------------------------|------------------|--------|--------|--------|
| Frame                      | 364              |        |        |        |
| Enclosure                  | DP               |        |        |        |
| Construction               | TDC              |        |        |        |
| Voltage                    | 190/380-400      | V      |        |        |
| Frequency                  | 60               | Hz     |        |        |
| Design                     | B                |        |        |        |
| LR Code letter             | F                |        |        |        |
| Service Factor             | 1.15             |        |        |        |
| Temp Rise @ FL             | 45               | ° C    |        |        |
| Duty                       | CONT             |        |        |        |
| Ambient                    | 40               | ° C    |        |        |
| Elevation                  | 1,000            | feet   |        |        |
| Rotor/Shaft wk²            | 0.00             | Lb-Ft² |        |        |
| Ref Wdg                    | IE3L2252110 NONE |        |        |        |
| Sound Pressure @ 1M        | 999              | dBA    |        |        |
| VFD Rating                 | NONE             |        |        |        |
| Outline Dwg                | SS620748         |        |        |        |
| Conn. Diag                 | EE7308AA         |        |        |        |
| Additional Specifications: |                  |        |        |        |
| 0                          |                  |        |        |        |
| 0                          |                  |        |        |        |
| EQUIV CKT (OHMS / PHASE)   |                  |        |        |        |
| R1                         | R2               | X1     | X2     | Xm     |
| 0.0530                     | 0.0210           | 0.2260 | 0.2860 | 8.3430 |

## 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 : 364TSTD4024

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

Catalog No : U523A

Rework No : N/A

### Directives :

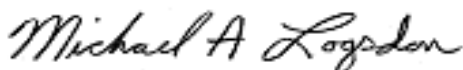
Low Voltage Directive 2014/35/EU

### 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**