

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 215TTDWD16365

Catalog No: E177A

10 HP Close-Coupled Pump Motor, 3 phase, 1800 RPM, 200 V, 215JMV Frame, ODP  
Close-Coupled Pump Motors



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**RegalRexnord**

### Nameplate Specifications

|                        |            |                            |            |
|------------------------|------------|----------------------------|------------|
| Output HP              | 10 Hp      | Output KW                  | 7.5 kW     |
| Frequency              | 60 Hz      | Voltage                    | 200 V      |
| Current                | 30.0 A     | Speed                      | 1765 rpm   |
| Service Factor         | 1.15       | Phase                      | 3          |
| Efficiency             | 91.7 %     | Power Factor               | 77.8       |
| Duty                   | Continuous | Insulation Class           | F          |
| Design Code            | B          | KVA Code                   | H          |
| Frame                  | 215JMV     | Enclosure                  | Drip Proof |
| Thermal Protection     | No         | Ambient Temperature        | 40 °C      |
| Drive End Bearing Size | 6309       | Opp Drive End Bearing Size | 6206       |
| UL                     | Recognized | CSA                        | Y          |
| CE                     | Y          | IP Code                    | 12         |
| Number of Speeds       | 1          |                            |            |

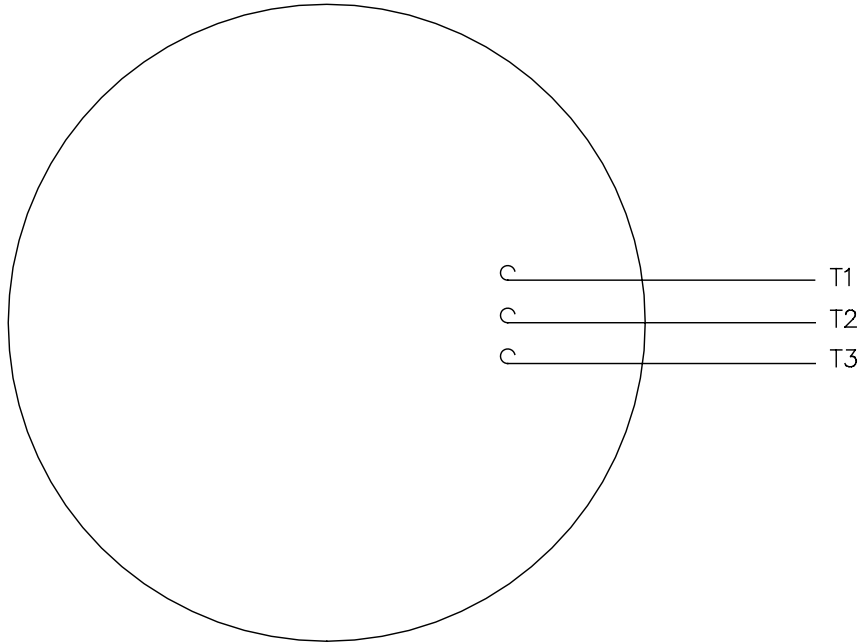
### Technical Specifications

|                       |                             |                       |                 |
|-----------------------|-----------------------------|-----------------------|-----------------|
| Electrical Type       | Squirrel Cage Induction Run | Starting Method       | Across The Line |
| Poles                 | 4                           | Rotation              | Reversible      |
| Resistance Main       | 1.022 Ohms                  | Mounting              | Round           |
| Motor Orientation     | Shaft Down                  | Drive End Bearing     | Ball            |
| Opp Drive End Bearing | Ball                        | Frame Material        | Rolled Steel    |
| Shaft Type            | JM                          | Overall Length        | 20.44 in        |
| Frame Length          | 11.15 in                    | Shaft Diameter        | 0.875 in        |
| Shaft Extension       | 4.25 in                     | Assembly/Box Mounting | F1/F2 CAPABLE   |
| Outline Drawing       | SS86596-1115                | Connection Drawing    | 005102.01       |

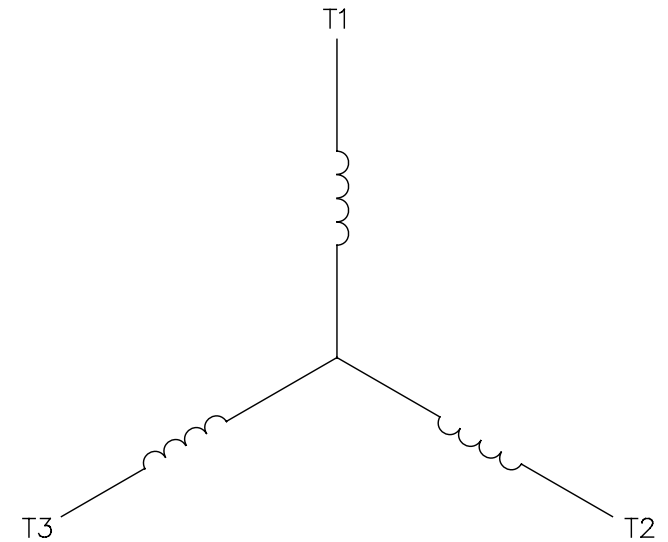
|  |  |                |         |                             |                  |   |                     |             |         |      |
|--|--|----------------|---------|-----------------------------|------------------|---|---------------------|-------------|---------|------|
| 6  | TITLE BLOCK LOGO CHANGE PER ECO-0078542  | MDV 06/09/2015 |         | TOLERANCES UNLESS SPECIFIED |                  |  <b>Regal Beloit America, Inc.</b> | DRAWN DA 03 26 1996 |             |         |      |
| 5  | UPDATED DRAWING                          | TJW 04/30/2007 |         | DEC.                        | INCHES           |   | CHK ML 04-01-1996   |             |         |      |
| 4  | REDRAWN IN AUTOCAD                       | TAT 07-06-2004 | ML      | .X                          | ±.1              |   | APPD DN 04-01-1996  |             |         |      |
| 3  | UPDATED DRIP COVER GEOMETRY CN 29200-433 | DRS 01-25-2002 |         | .XX                         | ±.03             | TITLE OUTLINE - C' FACE<br>210JM FR. - DR. PR.  | SCALE 1=5           |             |         |      |
| 2  | UPDATED C' BOX GEOMETRY CN 28425         | DRS 01-31-2001 |         | .XXX                        | ±.005            |   | REF                 |             |         |      |
| 1  | NEW DRAWING - DES/DEV                    | DA 04-02-1996  |         | .XXXX                       | ±.0005           | MAT'L.  | FMF                 |             |         |      |
| NO.  | REVISION                                 | BY & DATE      | CHK     | ANG                         | ± 7'30"          | FINISH  | PREV                |             |         |      |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT<br>IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED<br>THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT |  |                | RFP     |                             | CAD FILE ss86596 |   | SIZE                | DRAWING NO. | PAGE OF | REV. |
|  |  |                | DIST LB |                             |                  |   | A                   | SS86596     |         | 6    |

005102-01


VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS

CONNECT LEADS AS FOLLOWS  
FOR FOUR CONDUCTOR CORD ( )

|       |             |               |               |         |
|-------|-------------|---------------|---------------|---------|
| CORD  | L1<br>(RED) | L2<br>(WHITE) | L3<br>(BLACK) | (GREEN) |
| MOTOR | T1          | T2            | T3            | GROUND  |

|  |                                    |              |              |                                |                   |   |                   |                          |            |
|--|------------------------------------|--------------|--------------|--------------------------------|-------------------|---|-------------------|--------------------------|------------|
|  |                                    |              |              | TOLERANCES<br>UNLESS SPECIFIED |                   |  <b>Regal Beloit America, Inc.</b> | DRAWN JRW 9/11/75 |                          |            |
|  |                                    |              |              | DEC.                           | INCHES            |   | CHK               |                          |            |
|  |                                    |              |              | .X                             | ±.1               |   | APPD JCW 9/11/75  |                          |            |
| 08   | UPDATED TO REGAL LOGO              | SAJ 06/26/15 | AJY          | .XX                            | ±.01              | TITLE<br>EXTERNAL WIRING DIAGRAM<br>TYPE "T" W/O PROTECTOR  | SCALE 1=1         |                          |            |
| 07   | UPDATED TO CURRENT STANDARDS       | DBT 5/30/97  |              | .XXX                           | ±.005             |   | REF W-T6343-6     |                          |            |
| 06   | REDRAWN ON CAD; ADDED DECAL NUMBER | SAW 1/24/95  |              | .XXXX                          | ±.0005            | MAT'L. DECAL - 004169   | FMF 6T17FB7       |                          |            |
| NO.  | REVISION                           | BY & DATE    | CHK          | ANG                            | ±1/2"             | FINISH  | PREV              |                          |            |
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|  |                                    |              | DIST BRF-NLV |                                |                   |   |                   |                          |            |

**CERTIFICATION DATA SHEET**

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

**CUSTOMER:**  
**ORDER #:**  
**CONN. DIAGRAM:** 005102.01  
**OUTLINE:** SS86596-1115  
**WINDING #:** K2154505 4

**CUSTOMER PO#:**  
**MODEL #:** 215TTDWD16365 AA  
**CUSTOMER PART #:**  
**MOUNTING:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

| HP | kW   | SYNC. RPM | F.L. RPM | FRAME  | ENCLOSURE | KVA CODE | DESIGN |
|----|------|-----------|----------|--------|-----------|----------|--------|
| 10 | 7.50 | 1800      | 1765     | 215JMV | DP        | H        | B      |

| PH | Hz | VOLTS | AMPS | START TYPE      | DUTY       | INSL | S.F. | AMB°C |
|----|----|-------|------|-----------------|------------|------|------|-------|
| 3  | 60 | 200   | 30   | ACROSS THE LINE | CONTINUOUS | F4   | 1.15 | 40    |

|                            |                           |                           |                 |                   |
|----------------------------|---------------------------|---------------------------|-----------------|-------------------|
| <b>FULL LOAD EFF:</b> 91.7 | <b>3/4 LOAD EFF:</b> 92.1 | <b>1/2 LOAD EFF:</b> 91.4 | <b>GTD. EFF</b> | <b>ELEC. TYPE</b> |
| <b>FULL LOAD PF:</b> 77.8  | <b>3/4 LOAD PF:</b> 72    | <b>1/2 LOAD PF:</b> 60.2  | 90.2            | SQ CAGE IND RUN   |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE      | B.D. TORQUE      | F.L. RISE°C |
|-------------|-------------------|------------------|------------------|-------------|
| 29.7 LB-FT  | 185.2             | 62.3 LB-FT 210 % | 83.3 LB-FT 280 % | 25          |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2  | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|------------|------------|-----------------|---------------|-------------------|
| 60 dBA                 | 70 dBA      | 1 LB-FT^2  | 74 LB-FT^2 | 20 SEC.         | 2             | 150 LBS.          |

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

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT         |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|---------------|
| C-FACE          | STANDARD         | ROUND      | SHAFT DOWN  | FALSE       | NONE               | TRUE       | NONE    | BLUE (ENAMEL) |

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL          | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE       | ODE  |            |            |            |             |                         |                |
| BALL     | BALL | POLYREX EM | JM         | NONE       | NONE        | 1045 HOT ROLLED (C-204) | ROLLED STEEL   |
| 6309     | 6206 |            |            |            |             |                         |                |

| THERMO-PROTECTORS |            |          |          | THERMISTORS | CONTROL | SPACE HEATERS |
|-------------------|------------|----------|----------|-------------|---------|---------------|
| THERMOSTATS       | PROTECTORS | WDG RTDs | BRG RTDs |             |         |               |
| NONE              | NOT        | NONE     | NONE     | NONE        | FALSE   | NONE VOLTS    |

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|----------------------------------|
| <b>INVERTER TORQUE:</b> NONE     |
| <b>INV. HP SPEED RANGE:</b> NONE |
| <b>ENCODER:</b> NONE             |
| NONE NONE                        |
| NONE NONE PPR                    |
| <b>BRAKE:</b> NONE NONE          |
| NONE P/N NONE                    |
| NONE NONE                        |
| NONE FT-LB NONE V NONE Hz        |

**PREPARED BY:** Sumanth Raja Ghanta  
**DATE:** 10/09/2018 04:34:31 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

200

Volts

 HP 10.00

 PHASE 3

 Model No 215TTDWD16365
60

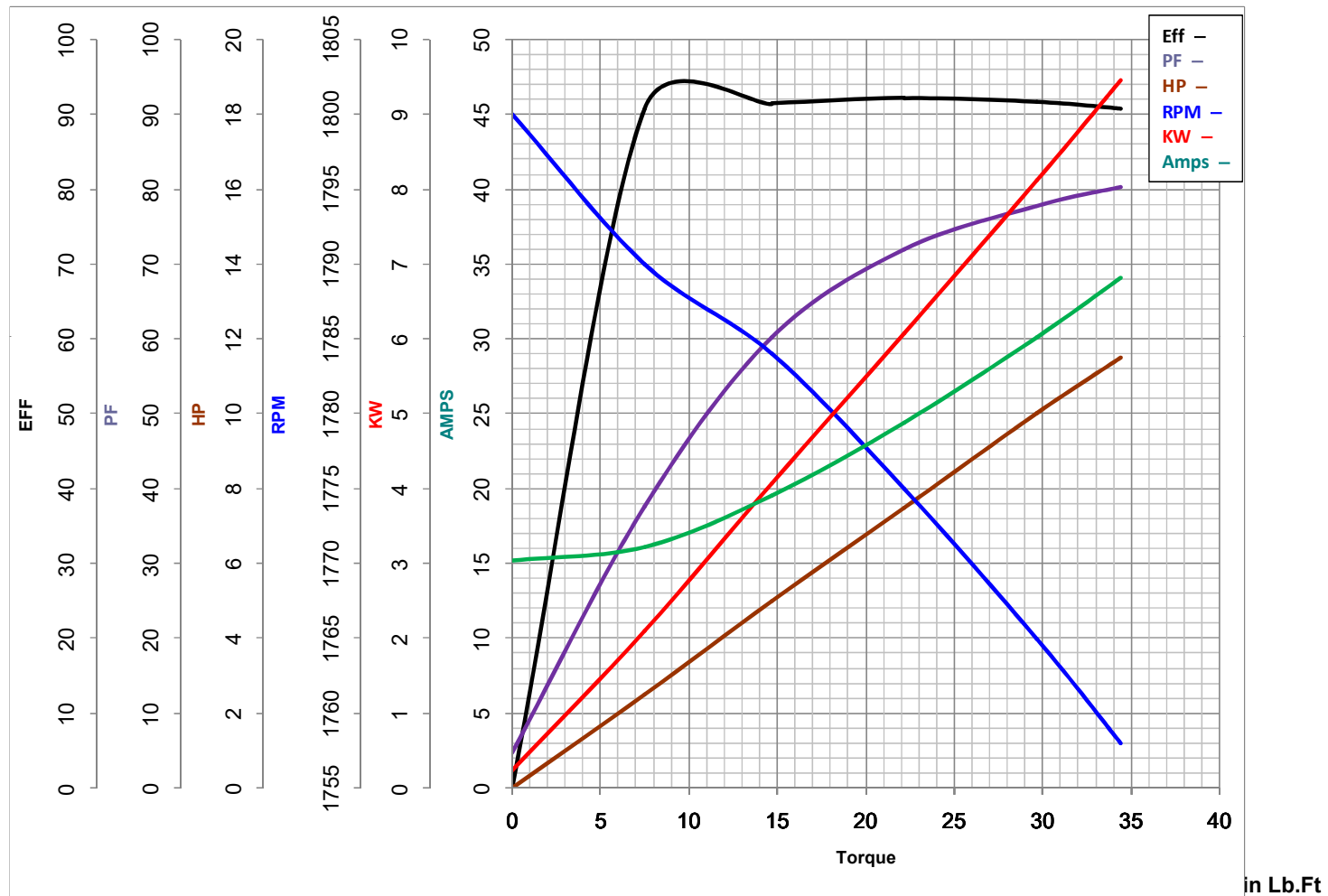
HZ

 VOLTS 200
10

HP

 HZ 60

 RPM 1765

 Catalog No E177A

 FL TORQUE 29.7 Lb.Ft

 BD TORQUE 83.3 Lb.Ft

 LR TORQUE 62.3 Lb.Ft

 FL AMPS 30

 PU TORQUE 58.0 Lb.Ft

 LR AMPS 185.15

WINDING K2154505-4

Date 11/1/2018