

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 215TTDW4022

Catalog No: E113

15 HP Close-Coupled Pump Motor, 3 phase, 3600 RPM, 230/460 V, 215JM Frame, ODP  
Close-Coupled Pump Motors



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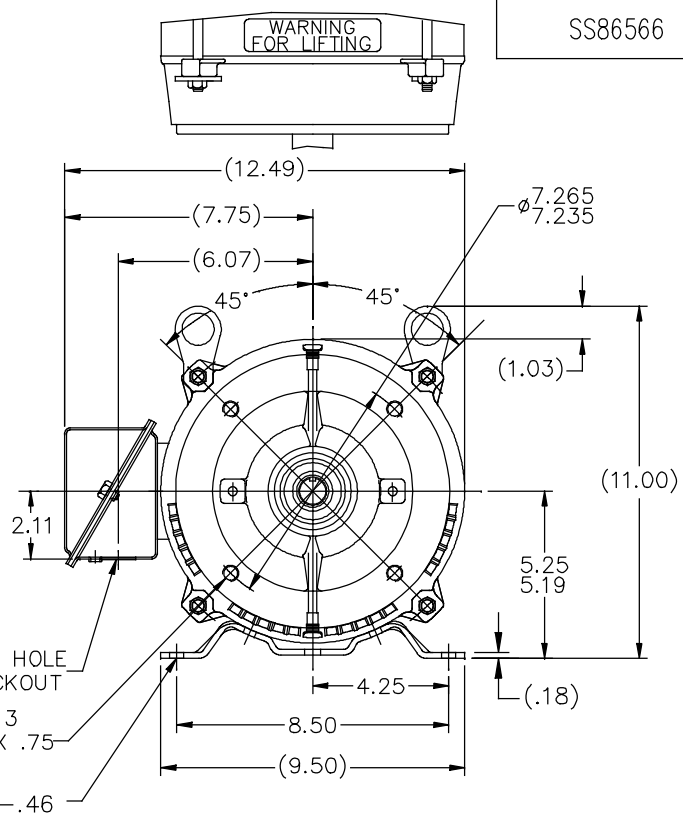
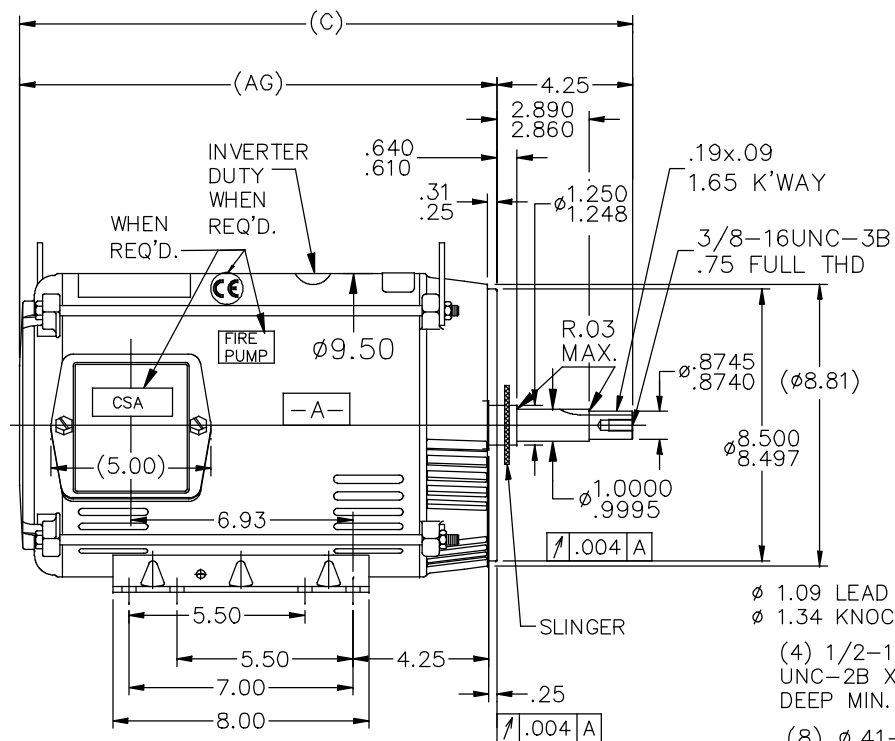
**RegalRexnord**

### Nameplate Specifications

|                        |                    |                            |                   |
|------------------------|--------------------|----------------------------|-------------------|
| Output HP              | <b>15 Hp</b>       | Output KW                  | <b>11.2 kW</b>    |
| Frequency              | <b>60 Hz</b>       | Voltage                    | <b>230/460 V</b>  |
| Current                | <b>34.0/17.0 A</b> | Speed                      | <b>3510 rpm</b>   |
| Service Factor         | <b>1.15</b>        | Phase                      | <b>3</b>          |
| Efficiency             | <b>90.2 %</b>      | Power Factor               | <b>91</b>         |
| Duty                   | <b>Continuous</b>  | Insulation Class           | <b>F</b>          |
| Design Code            | <b>B</b>           | KVA Code                   | <b>G</b>          |
| Frame                  | <b>215JM</b>       | Enclosure                  | <b>Drip Proof</b> |
| Thermal Protection     | <b>No</b>          | Ambient Temperature        | <b>40 °C</b>      |
| Drive End Bearing Size | <b>6309</b>        | Opp Drive End Bearing Size | <b>6206</b>       |
| UL                     | <b>No</b>          | CSA                        | <b>Y</b>          |
| CE                     | <b>Y</b>           | IP Code                    | <b>12</b>         |
| Number of Speeds       | <b>1</b>           |                            |                   |

### Technical Specifications

|                       |                                    |                       |                        |
|-----------------------|------------------------------------|-----------------------|------------------------|
| Electrical Type       | <b>Squirrel Cage Induction Run</b> | Starting Method       | <b>Across The Line</b> |
| Poles                 | <b>2</b>                           | Rotation              | <b>Reversible</b>      |
| Resistance Main       | <b>.825 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>Rolled Steel</b>    |
| Shaft Type            | <b>JM</b>                          | Overall Length        | <b>20.41 in</b>        |
| Frame Length          | <b>12.40 in</b>                    | Shaft Diameter        | <b>0.875 in</b>        |
| Shaft Extension       | <b>4.25 in</b>                     | Assembly/Box Mounting | <b>F1 ONLY</b>         |
| Connection Drawing    | <b>A-EE7308</b>                    | Outline Drawing       | <b>A-SS86566-1240</b>  |



| DASH | FR.      | C     | AG    | BS   | MOUNTING |
|------|----------|-------|-------|------|----------|
| 965  | 213JM    | 17.66 | 13.41 | 5.43 |          |
| 1115 | 213/15JM | 19.16 | 14.91 | 6.93 |          |
| 1240 | 213/15JM | 20.41 | 16.16 | 8.18 | F1 ONLY  |

NOTES:

1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.
2. BOX CAN BE MOUNTED IN 90° STEPS.
3. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. (EXCEPT AS NOTED)

|                                                                                                                                                                                                                                        |                                          |                |         |                                |                  |                                                                                                                         |           |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------|---------|--------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------|
| 8                                                                                                                                                                                                                                      | ADDED INVERTER LOGO                      | MVG 01/24/2018 | MVG     | TOLERANCES<br>UNLESS SPECIFIED |                  |  <b>Regal</b> Beloit America, Inc. | DRAWN     | KL 12-23-1994            |
| 7                                                                                                                                                                                                                                      | TITLE BLOCK LOGO CHANGE PER ECO-0078542  | MDV 06/09/2015 | DEC.    | INCHES                         |                  |                                                                                                                         | CHK       | ML 12-23-1994            |
| 6                                                                                                                                                                                                                                      | Ø.8745/.8740 WAS Ø.8750/.8745 ECN #21254 | WGJ 08/03/2011 | EMH     | .X                             | ±.1              |                                                                                                                         | APPD      | DRN 12-23-1994           |
| 5                                                                                                                                                                                                                                      | UPDATED DRAWING                          | TJW 04/27/2007 |         | .XX                            | ±.03             |                                                                                                                         | SCALE     | 1=5                      |
| 4                                                                                                                                                                                                                                      | REDRAWN IN AUTOCAD                       | TAT 07-06-2004 | ML      | .XXX                           | ±.005            | TITLE OUTLINE<br>210JM FR.-BB-TS-DR.PR.-C' FACE                                                                         |           | REF                      |
| 3                                                                                                                                                                                                                                      | UPDATED C' BOX GEOMETRY CN 28425         | DRS 04-16-2001 |         | .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 ss86566 |                                                                                                                         | SIZE      | DRAWING NO. PAGE OF REV. |
|                                                                                                                                                                                                                                        |                                          |                | DIST LB |                                | A                |                                                                                                                         | SS86566 8 |                          |



| NO.                                                                                                                                                                                                                                    | REVISION                                       | BY & DATE      | CHK | ANG   | TOLERANCES<br>UNLESS SPECIFIED |        | FINISH | DRAWING NO.                                                                                                             | PAGE | OF | REV. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------|-----|-------|--------------------------------|--------|--------|-------------------------------------------------------------------------------------------------------------------------|------|----|------|
|                                                                                                                                                                                                                                        |                                                |                |     |       | DEC.                           | INCHES |        |                                                                                                                         |      |    |      |
| 5                                                                                                                                                                                                                                      | CHG TO REGAL LOGO                              | SL 09/10/2015  | AB  |       | DEC.                           | INCHES |        |  <b>Regal Beloit America, Inc.</b> |      |    |      |
| 4                                                                                                                                                                                                                                      | REVISED IEC NOTATIONS                          | MSG 11/15/2011 | CMN | .X    | ±.1                            |        |        |                                                                                                                         |      |    |      |
| 3                                                                                                                                                                                                                                      | ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194 | MSG 5/10/2010  | MJS | .XX   | ±.02                           |        |        |                                                                                                                         |      |    |      |
| 2                                                                                                                                                                                                                                      | ADDED THE OPTIONAL CORD CONNECTION MU46318     | RDH 04/24/2003 | DRS | .XXX  | ±.005                          |        |        |                                                                                                                         |      |    |      |
| 1                                                                                                                                                                                                                                      | REDRAWN                                        | RM 11/20/1990  |     | .XXXX | ±.0005                         |        |        |                                                                                                                         |      |    |      |
|                                                                                                                                                                                                                                        |                                                |                |     |       | ±7'30"                         |        |        |                                                                                                                         |      |    |      |
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| RFP                                                                                                                                                                                                                                    |                                                |                |     |       |                                |        |        | A                                                                                                                       |      |    |      |
| DIST WP                                                                                                                                                                                                                                |                                                |                |     |       |                                |        |        |                                                                                                                         |      |    |      |
| CAD FILE ee7308                                                                                                                                                                                                                        |                                                |                |     |       |                                |        |        |                                                                                                                         |      |    |      |
| TITLE CONNECTION DIAGRAM                                                                                                                                                                                                               |                                                |                |     |       |                                |        |        |                                                                                                                         |      |    |      |
| 3Ø – DUAL VOLTAGE MOTOR                                                                                                                                                                                                                |                                                |                |     |       |                                |        |        |                                                                                                                         |      |    |      |
| MAT'L.                                                                                                                                                                                                                                 |                                                |                |     |       |                                |        |        |                                                                                                                         |      |    |      |
| DRAWN RM 11/20/1990                                                                                                                                                                                                                    |                                                |                |     |       |                                |        |        |                                                                                                                         |      |    |      |
| CHK ML 11/21/1990                                                                                                                                                                                                                      |                                                |                |     |       |                                |        |        |                                                                                                                         |      |    |      |
| APPD SAS 04/24/2003                                                                                                                                                                                                                    |                                                |                |     |       |                                |        |        |                                                                                                                         |      |    |      |
| SCALE 1=1                                                                                                                                                                                                                              |                                                |                |     |       |                                |        |        |                                                                                                                         |      |    |      |
| REF                                                                                                                                                                                                                                    |                                                |                |     |       |                                |        |        |                                                                                                                         |      |    |      |
| FMF                                                                                                                                                                                                                                    |                                                |                |     |       |                                |        |        |                                                                                                                         |      |    |      |
| PREV                                                                                                                                                                                                                                   |                                                |                |     |       |                                |        |        |                                                                                                                         |      |    |      |

## CERTIFICATION DATA SHEET

Model#: 215TTDW4022 AC  
 CONN. DIAGRAM: A-EE7308  
 OUTLINE: A-SS86566-1240

WINDING#: K2152149 NONE 1  
 ASSEMBLY: F1 ONLY

## TYPICAL MOTOR PERFORMANCE DATA

| HP | KW   | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|------|-----------|----------|-------|-----------|----------|--------|
| 15 | 11.2 | 3600      | 3510     | 215JM | DP        | G        | B      |

| PH | Hz | VOLTS   | FL AMPS | START TYPE      | DUTY       | INSL | S.F  | AMB°C | ELEVATION |
|----|----|---------|---------|-----------------|------------|------|------|-------|-----------|
| 3  | 60 | 230/460 | 34/17   | ACROSS THE LINE | CONTINUOUS | F4   | 1.15 | 40    | 3300      |

|                     |                    |                   |          |                 |              |
|---------------------|--------------------|-------------------|----------|-----------------|--------------|
| FULL LOAD EFF: 90.2 | 3/4 LOAD EFF: 91.7 | 1/2 LOAD EFF: 91  | GTD. EFF | ELEC. TYPE      | NO LOAD AMPS |
| FULL LOAD PF: 91    | 3/4 LOAD PF: 89.5  | 1/2 LOAD PF: 84.5 | 88.5     | SQ CAGE IND RUN | 8.2 / 4.1    |

|             |                   |                |                |             |
|-------------|-------------------|----------------|----------------|-------------|
| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE    | B.D. TORQUE    | F.L. RISE°C |
| 22.5 LB-FT  | 232 / 116         | 34.5 LB-FT 153 | 65.5 LB-FT 291 | 35          |

|                        |             |             |           |                 |              |                   |
|------------------------|-------------|-------------|-----------|-----------------|--------------|-------------------|
| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2  | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
| 75 dBA                 | 85 dBA      | 0.6 LB-FT^2 | 8 LB-FT^2 | 15 SEC.         | 2            | 130 LBS.          |

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

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT         |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|---------------|
| C-FACE          | 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 |            |            |            |             |                        |                |
| 6309     | 6206 | POLYREX EM | JM         | NONE       | NONE        | EN8D STEEL BAR (C-242) | ROLLED STEEL   |

| 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

|                                 |                           |  |  |  |
|---------------------------------|---------------------------|--|--|--|
| *<br>N<br>O<br>T<br>E<br>S<br>* | INVERTER TORQUE: NONE     |  |  |  |
|                                 | 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: 06/21/2017 10:33:39 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

## Data Sheet

Date: 6/20/2017

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

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

Submitted by: FAREEDA DUDEKULA



215TTDW4022

Submittal

Data @ 460 V

## Motor Load Data

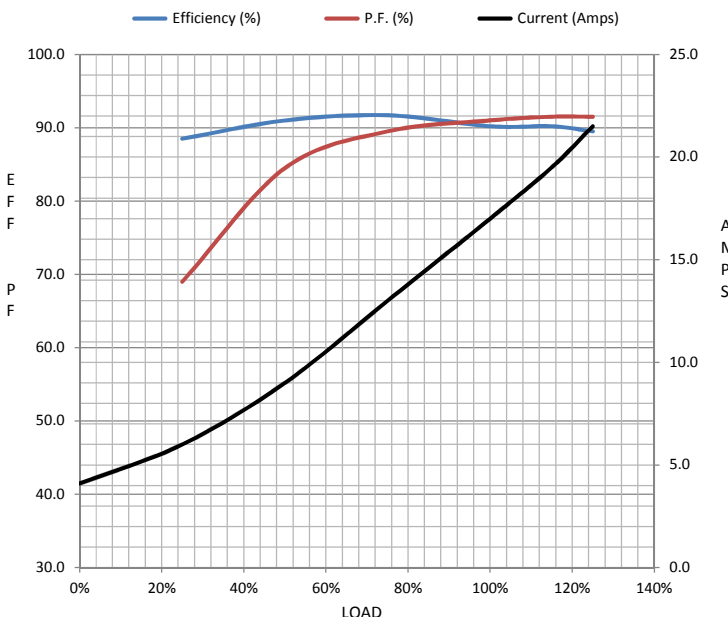
| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |  |
|----------------|------|------|------|------|------|-------|------|------|--|
| Current (Amps) | 4.1  | 6.0  | 9.0  | 13.0 | 17.0 | 19.5  | 21.5 | 116  |  |
| Torque (ft-lb) | 0.00 | 5.5  | 11.0 | 16.7 | 22.5 | 26.0  | 28.5 | 34.5 |  |
| RPM            | 3600 | 3580 | 3560 | 3535 | 3510 | 3,495 | 3485 | 0    |  |
| Efficiency (%) |      | 88.5 | 91.0 | 91.7 | 90.2 | 90.2  | 89.5 |      |  |
| P.F. (%)       | 9.0  | 69.0 | 84.5 | 89.5 | 91.0 | 91.5  | 91.5 | 42.0 |  |

## Motor Speed Data

|                | LR   | Pull-Up | BD   | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 1200    | 3025 | 3510  | 3600 |
| Current (Amps) | 116  | 100     | 73.5 | 17.0  | 4.1  |
| Torque (ft-lb) | 34.5 | 31.0    | 65.5 | 22.5  | 0.00 |

## Information Block

|                            |                |        |        |         |
|----------------------------|----------------|--------|--------|---------|
| HP                         | 15.0           |        |        |         |
| Sync. RPM                  | 3600           |        |        |         |
| Frame                      | 215            |        |        |         |
| Enclosure                  | DP             |        |        |         |
| Construction               | TDW            |        |        |         |
| Voltage                    | 230/460 V      |        |        |         |
| Frequency                  | 60 Hz          |        |        |         |
| Design                     | A              |        |        |         |
| 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            | 0.60 Lb-Ft²    |        |        |         |
| Ref Wdg                    | K2152149 NONE  |        |        |         |
| Sound Pressure @ 1M        | 75 dBA         |        |        |         |
| VFD Rating                 | NONE           |        |        |         |
| Outline Dwg                | A-SS86566-1240 |        |        |         |
| Conn. Diag                 | A-EE7308       |        |        |         |
| Additional Specifications: |                |        |        |         |
| 0                          |                |        |        |         |
| 0                          |                |        |        |         |
| EQUIV CKT (OHMS / PHASE)   |                |        |        |         |
| R1                         | R2             | X1     | X2     | Xm      |
| 0.4860                     | 0.3690         | 1.4910 | 1.0110 | 58.5900 |



## Speed -Torque Curve

