

# PRODUCT INFORMATION PACKET



Model No: B199698.00

Catalog No: B199698.00

Ultimate e™ General Purpose Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
3600 & 3000 RPM, 215T Frame, DP



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## Nameplate Specifications

|                        |                     |                            |                     |
|------------------------|---------------------|----------------------------|---------------------|
| Phase                  | 3                   | Output HP                  | 15 & 10 Hp          |
| Output KW              | 11.2 & 7.5 kW       | Voltage                    | 230/460 & 190/380 V |
| Speed                  | 3515 & 2930 rpm     | Service Factor             | 1.15 & 1.15         |
| Frame                  | 215T                | Enclosure                  | Drip Proof          |
| Thermal Protection     | No Protection       | Efficiency                 | 90.2 & 90.2 %       |
| Ambient Temperature    | 40 °C               | Frequency                  | 60 & 50 Hz          |
| Current                | 36/18 & 29.8/14.9 A | Power Factor               | 86                  |
| Duty                   | Continuous          | Insulation Class           | F                   |
| Design Code            | B                   | KVA Code                   | G                   |
| Drive End Bearing Size | 6307                | Opp Drive End Bearing Size | 6206                |
| UL                     | Recognized          | CSA                        | Y                   |
| CE                     | Y                   | IP Code                    | 22                  |
| Number of Speeds       | 1                   |                            |                     |

## Technical Specifications

|                       |                              |                       |                  |
|-----------------------|------------------------------|-----------------------|------------------|
| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method       | Line Or Inverter |
| Poles                 | 2                            | Rotation              | Reversible       |
| Resistance Main       | .97 Ohms                     | Mounting              | Rigid Base       |
| Motor Orientation     | Horizontal                   | Drive End Bearing     | Ball             |
| Opp Drive End Bearing | Ball                         | Frame Material        | Rolled Steel     |
| Shaft Type            | T                            | Overall Length        | 17.52 in         |
| Frame Length          | 11.15 in                     | Shaft Diameter        | 1.375 in         |
| Shaft Extension       | 3.38 in                      | Assembly/Box Mounting | F1/F2 CAPABLE    |
| Outline Drawing       | SS620684                     | Connection Drawing    | EE7308           |

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DRAW

Regal Beloit America, Inc.

## OUTLINE

213/215T FR NEMA ODP RS

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| 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</b> Beloit America, Inc. |        |        |      |
| 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" |        |   |        |        |      |
| 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 |  |                |     |       |                                |        |        | CAD FILE ee7308   | SIZE A | EE7308 | 5    |
|  |  |                |     |       |                                |        |        | RFP   |        |        |      |
|  |  |                |     |       |                                |        |        | DIST WP   |        |        |      |



# CERTIFICATION DATA SHEET

**1051 CHEYENNE AVE.  
GRAFTON, WI 53024  
PH. 262-377-8810**

**CONN. DIAGRAM:** EE7308

**CATALOG #:** B199698.00

**OUTLINE:** SS620684

**MOUNTING:** F1/F2 CAPABLE

**WINDING #:** HE31322017 2

## TYPICAL MOTOR PERFORMANCE DATA

| HP    | kW        | SYNC. RPM | F.L. RPM  | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-----------|-----------|-----------|-------|-----------|----------|--------|
| 15&10 | 11.2&7.50 | 3600      | 3515&2930 | 215T  | DP        | G        | B      |

| PH | Hz    | VOLTS           | AMPS            | START TYPE       | DUTY       | INSL | S.F.      | AMB°C |
|----|-------|-----------------|-----------------|------------------|------------|------|-----------|-------|
| 3  | 60/50 | 230/460&190/380 | 36/18&29.8/14.9 | LINE OR INVERTER | CONTINUOUS | F3   | 1.15/1.15 | 40    |

|                       |           |                      |      |                      |      |                 |  |                   |
|-----------------------|-----------|----------------------|------|----------------------|------|-----------------|--|-------------------|
| <b>FULL LOAD EFF:</b> | 90.2&90.2 | <b>3/4 LOAD EFF:</b> | 91.8 | <b>1/2 LOAD EFF:</b> | 90.5 | <b>GTD. EFF</b> |  | <b>ELEC. TYPE</b> |
| <b>FULL LOAD PF:</b>  | 86&84     | <b>3/4 LOAD PF:</b>  | 81.9 | <b>1/2 LOAD PF:</b>  | 72.7 | 89.5            |  | SQ CAGE INV RATED |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE    | B.D. TORQUE    | F.L. RISE°C |
|-------------|-------------------|----------------|----------------|-------------|
| 22.4 LB-FT  | 210 / 105         | 38 LB-FT 170 % | 57 LB-FT 254 % | 50          |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2  | MAX. WK^2  | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|-------------|------------|-----------------|---------------|-------------------|
| 60 dBA                 | 70 dBA      | 0.6 LB-FT^2 | 18 LB-FT^2 | 10 SEC.         | 2             | 125 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       | ODE  |            |            |            |             |                   |                |
| BALL     | BALL | POLYREX EM | T          | NONE       | NONE        | AISI 1045 (C-240) | ROLLED STEEL   |
| 6307     | 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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**INVERTER TORQUE:** VARIABLE 10:1

**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

## Data Sheet

Date: 1/24/2018

B199698.00



Data @ 460 V

## Motor Load Data

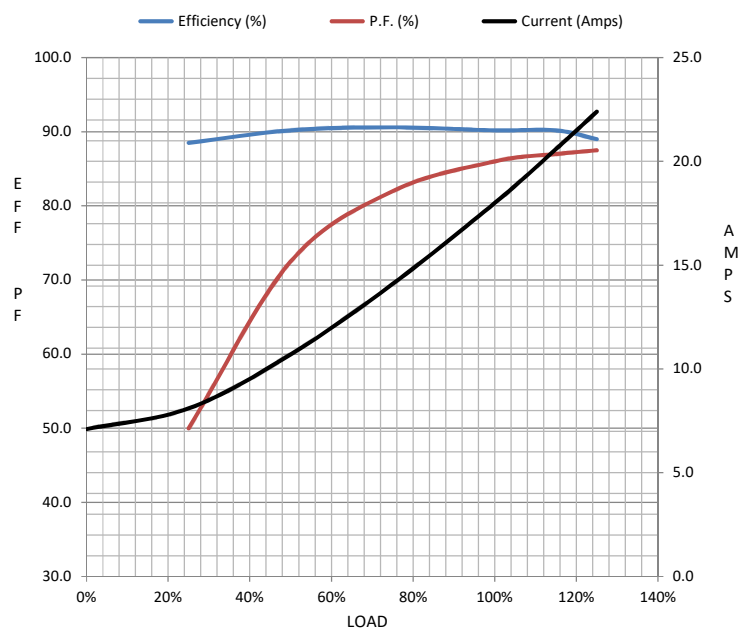
| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |  |
|----------------|------|------|------|------|------|-------|------|------|--|
| Current (Amps) | 7.1  | 8.1  | 10.7 | 14.1 | 18.0 | 20.6  | 22.4 | 105  |  |
| Torque (ft-lb) | 0.00 | 5.5  | 11.1 | 16.8 | 22.4 | 26.0  | 28.2 | 38.0 |  |
| RPM            | 3600 | 3580 | 3560 | 3538 | 3515 | 3,498 | 3488 | 0    |  |
| Efficiency (%) |      | 88.5 | 90.2 | 90.6 | 90.2 | 90.2  | 89.0 |      |  |
| P.F. (%)       | 7.5  | 50.0 | 72.5 | 82.0 | 86.0 | 87.0  | 87.5 | 45.0 |  |

## Motor Speed Data

|                | LR   | Pull-Up | BD   | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 1800    | 3085 | 3515  | 3600 |
| Current (Amps) | 105  | 95.0    | 64.0 | 18.0  | 7.1  |
| Torque (ft-lb) | 38.0 | 33.0    | 57.0 | 22.4  | 0.00 |

## Information Block

|                            |                   |        |        |         |
|----------------------------|-------------------|--------|--------|---------|
| HP                         | 15.0              |        |        |         |
| Sync. RPM                  | 3600              |        |        |         |
| Frame                      | 215               |        |        |         |
| Enclosure                  | DP                |        |        |         |
| Construction               | TDB               |        |        |         |
| Voltage                    | 230/460#190/380 V |        |        |         |
| Frequency                  | 60 Hz             |        |        |         |
| Design                     | B                 |        |        |         |
| LR Code letter             | G                 |        |        |         |
| Service Factor             | 1.15              |        |        |         |
| Temp Rise @ FL             | 50 °C             |        |        |         |
| Duty                       | CONT              |        |        |         |
| Ambient                    | 40 °C             |        |        |         |
| Elevation                  | 1,000 feet        |        |        |         |
| Rotor/Shaft wk²            | 0.60 Lb-Ft²       |        |        |         |
| Ref Wdg                    | HE31322017 NONE   |        |        |         |
| Sound Pressure @ 1M        | 60 dBA            |        |        |         |
| VFD Rating                 | VARIABLE 10:1     |        |        |         |
| Outline Dwg                | SS620684          |        |        |         |
| Conn. Diag                 | EE7308            |        |        |         |
| Additional Specifications: |                   |        |        |         |
| 0                          |                   |        |        |         |
| 0                          |                   |        |        |         |
| EQUIV CKT (OHMS / PHASE)   |                   |        |        |         |
| R1                         | R2                | X1     | X2     | Xm      |
| 0.5860                     | 0.3590            | 1.6070 | 1.0020 | 39.5960 |



## Speed - Torque Curve

