

# PRODUCT INFORMATION PACKET

Model No: 286TTDCA6013

Catalog No: GT2533

40 HP Close-Coupled Pump Motor, 3 phase, 3600 RPM, 575 V, 286JP Frame, ODP  
JP Motors



### Nameplate Specifications

|                        |            |                            |            |
|------------------------|------------|----------------------------|------------|
| Output HP              | 40 Hp      | Output KW                  | 30.0 kW    |
| Frequency              | 60 Hz      | Voltage                    | 575 V      |
| Current                | 35.5 A     | Speed                      | 3545 rpm   |
| Service Factor         | 1.15       | Phase                      | 3          |
| Efficiency             | 92.4 %     | Power Factor               | 89.5       |
| Duty                   | Continuous | Insulation Class           | F          |
| Design Code            | B          | KVA Code                   | F          |
| Frame                  | 286JP      | Enclosure                  | Drip Proof |
| Thermal Protection     | No         | Ambient Temperature        | 40 °C      |
| Drive End Bearing Size | 6211       | Opp Drive End Bearing Size | 6211       |
| UL                     | Recognized | CSA                        | Y          |
| CE                     | Y          | IP Code                    | 12         |

### Technical Specifications

|                       |                              |                    |                  |
|-----------------------|------------------------------|--------------------|------------------|
| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method    | Line Or Inverter |
| Poles                 | 2                            | Rotation           | Reversible       |
| Resistance Main       | .187 Ohms                    | Mounting           | Rigid Base       |
| Motor Orientation     | Horizontal                   | Drive End Bearing  | Ball             |
| Opp Drive End Bearing | Ball                         | Frame Material     | Cast Iron        |
| Shaft Type            | JP                           | Overall Length     | 29.99 in         |
| Shaft Diameter        | 1.250 in                     | Shaft Extension    | 8.15 in          |
| Assembly/Box Mounting | F1/F2 CAPABLE                |                    |                  |
| Outline Drawing       | SS620573-286T                | Connection Drawing | EE7300           |

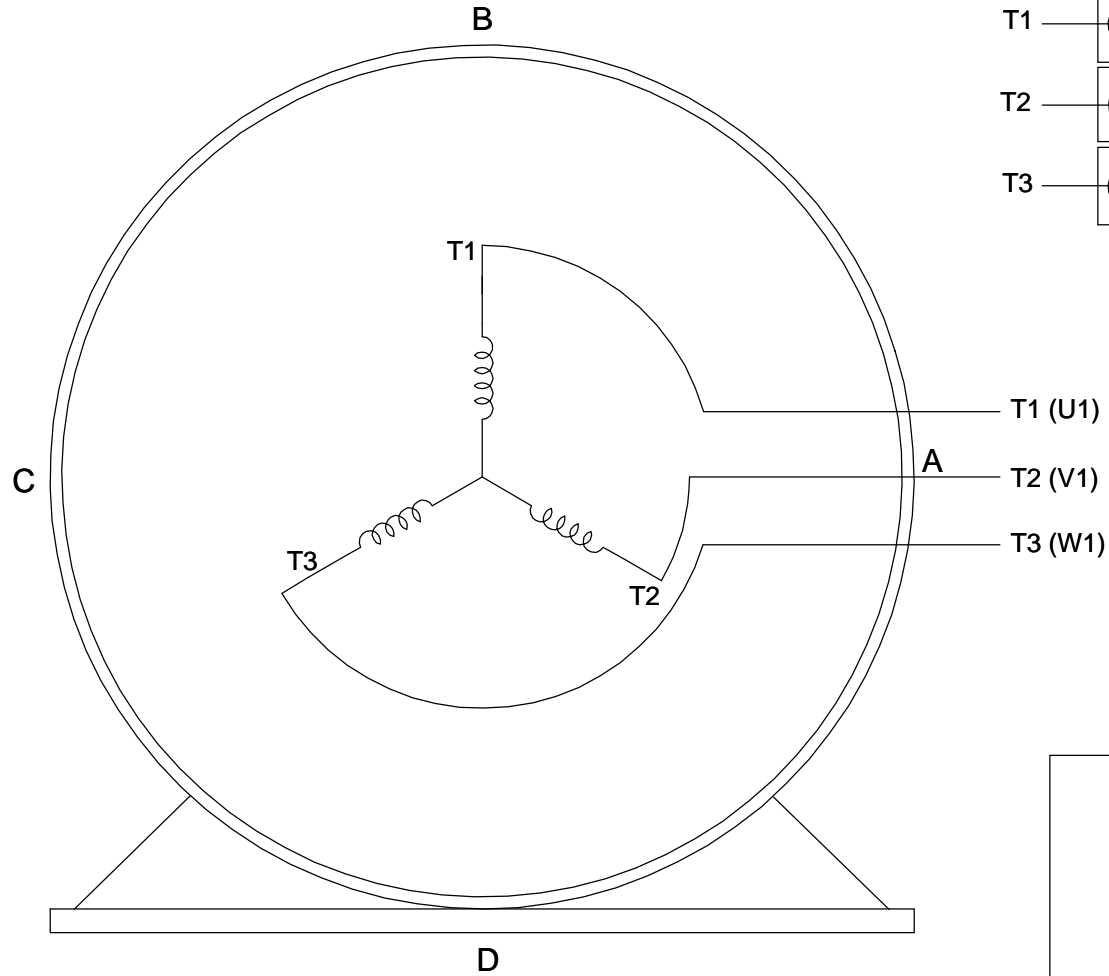
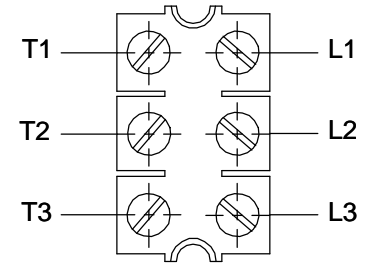
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**THREE PHASE - SINGLE VOLTAGE  
MOTOR - CONDUIT BOX @ 'A'**

**TO REVERSE ROTATION:  
INTERCHANGE ANY TWO  
LINE LEAD CONNECTIONS.**

**TERMINAL BLOCK WHEN SPECIFIED**



**VIEW OF TERMINAL END**

**IF MOTOR HAS  
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD  
CONNECTION**

- L1 \_\_\_\_\_ WHITE \_\_\_\_\_
- L2 \_\_\_\_\_ RED \_\_\_\_\_
- L3 \_\_\_\_\_ BLACK \_\_\_\_\_

|   |                    |                    |
|---|--------------------|--------------------|
| DRAWING REVISION<br>AB  | REVISION BY<br>JJB | DATE<br>06-27-2017 |
| ECO<br>ECO-0125361  | APPROVED BY<br>TB  | DATE<br>06-27-2017 |
| ECO DESCRIPTION<br><b>UPDATED TO CURRENT STANDARDS</b>  |                    |                    |
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|                           |
|---------------------------|
| DRAWN BY<br>DA            |
| DATE<br>03-26-1993        |
| APPROVED BY<br>TB         |
| DATE<br>03-26-1993        |
| REFERENCE                 |
| THIRD ANGLE<br>PROJECTION |

|                            |                                 |  |
|----------------------------|---------------------------------|--|
| Regal Beloit America, Inc. |                                 |  |
|                            |                                 | DESCRIPTION<br><b>CONNECTION DIAGRAM</b><br>EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR |
| MATERIAL                   | PROCESS/FINISH                  |  |
| SIZE<br><b>A</b>           | DRAWING NUMBER<br><b>EE7300</b> | SHEET<br>1 OF 1  |

**CERTIFICATION DATA SHEET**

**Model#:** 286TTDCA6013 AA      **WINDING#:** CHT28620003 NONE 3  
**CONN. DIAGRAM:** EE7300      **ASSEMBLY:** F1/F2 CAPABLE  
**OUTLINE:** SS620573

**TYPICAL MOTOR PERFORMANCE DATA**

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|----|-----------|----------|-------|-----------|----------|--------|
| 40 | 30 | 3600      | 3545     | 286JP | DP        | F        | B      |

| PH | Hz | VOLTS | FL AMPS | START TYPE       | DUTY       | INSL | S.F  | AMB°C | ELEVATION |
|----|----|-------|---------|------------------|------------|------|------|-------|-----------|
| 3  | 60 | 575   | 35.5    | LINE OR INVERTER | CONTINUOUS | F7   | 1.15 | 40    | 3300      |

| FULL LOAD EFF: 92.4 | 3/4 LOAD EFF: 93  | 1/2 LOAD EFF: 93 | GTD. EFF | ELEC. TYPE        | NO LOAD AMPS |
|---------------------|-------------------|------------------|----------|-------------------|--------------|
| FULL LOAD PF: 89.5  | 3/4 LOAD PF: 88.5 | 1/2 LOAD PF: 84  | 91.7     | SQ CAGE INV RATED | 9.2          |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE  | B.D. TORQUE   | F.L. RISE°C |
|-------------|-------------------|--------------|---------------|-------------|
| 59.3 LB-FT  | 197.6             | 98 LB-FT 163 | 136 LB-FT 231 | 35          |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2  | MAX. WK^2  | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|-------------|------------|-----------------|--------------|-------------------|
| 78 dBA                 | 88 dBA      | 3.2 LB-FT^2 | 45 LB-FT^2 | 15 SEC.         | 2            | 500 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 | POLYREX EM | JP         | NONE       | NONE        | 1045 HOT ROLLED (C-204) | CAST IRON      |
| 6211     | 6211 |            |            |            |             |                         |                |

| 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

|                                |
|--------------------------------|
| 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      |

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DATE: 06/27/2017 03:24:19 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

Data Sheet

Date: 16-06-2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



286TTDCA6013  
**Submittal**  
 Data @ 575 V

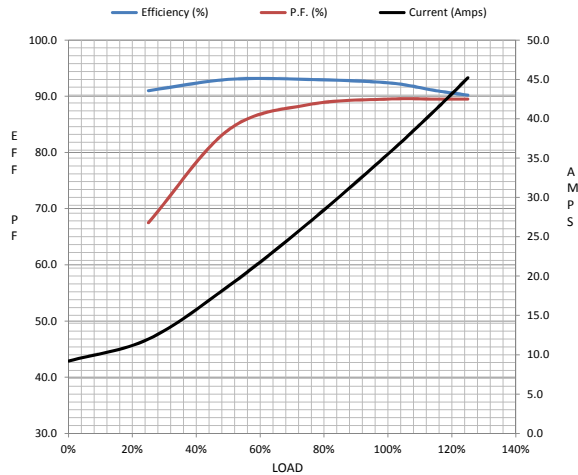
Motor Load Data

| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 9.2  | 12.0 | 18.7 | 26.7 | 35.5 | 41.2  | 45.2 | 198  |
| Torque (ft-lb) | 0.00 | 14.6 | 29.4 | 44.2 | 59.3 | 68.3  | 74.4 | 98.0 |
| RPM            | 3600 | 3585 | 3575 | 3560 | 3545 | 3.535 | 3527 | 0    |
| Efficiency (%) |      | 91.0 | 93.0 | 93.0 | 92.4 | 91.0  | 90.2 |      |
| P.F. (%)       | 5.0  | 67.5 | 84.0 | 88.5 | 89.5 | 89.5  | 89.5 | 37.0 |

Motor Speed Data

|                | LR   | Pull-Up | BD   | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 1800    | 3310 | 3545  | 3600 |
| Current (Amps) | 198  | 178     | 122  | 35.5  | 9.2  |
| Torque (ft-lb) | 98.0 | 147     | 136  | 59.3  | 0.00 |

| Information Block           |                        |        |        |         |
|-----------------------------|------------------------|--------|--------|---------|
| HP                          | 40.0                   |        |        |         |
| Sync. RPM                   | 3600                   |        |        |         |
| Frame                       | 286                    |        |        |         |
| Enclosure                   | DP                     |        |        |         |
| Construction                | TDC                    |        |        |         |
| Voltage                     | 575 V                  |        |        |         |
| Frequency                   | 60 Hz                  |        |        |         |
| Design                      | B                      |        |        |         |
| LR Code letter              | G                      |        |        |         |
| Service Factor              | 1.15                   |        |        |         |
| Temp Rise @ FL              | 35 ° C                 |        |        |         |
| Duty                        | CONT                   |        |        |         |
| Ambient                     | 40 ° C                 |        |        |         |
| Elevation                   | 1,000 feet             |        |        |         |
| Rotor/Shaft wk <sup>2</sup> | 3.2 Lb-Ft <sup>2</sup> |        |        |         |
| Ref Wdg                     | CHT28620003 NONE       |        |        |         |
| Sound Pressure @ 1M         | 78 dBA                 |        |        |         |
| VFD Rating                  | VARIABLE 10:1          |        |        |         |
| Outline Dwg                 | SS620573               |        |        |         |
| Conn. Diag                  | EE7300                 |        |        |         |
| Additional Specifications:  |                        |        |        |         |
| 0                           |                        |        |        |         |
| 365THFS8036                 |                        |        |        |         |
| EQUIV CKT (OHMS / PHASE)    |                        |        |        |         |
| R1                          | R2                     | X1     | X2     | Xm      |
| 0.1940                      | 0.1170                 | 0.7420 | 0.9970 | 35.2280 |



Speed -Torque Curve

