

PRODUCT INFORMATION PACKET

Model No: 254TTDCA6008

Catalog No: GT0524

20 HP, Close-Coupled Pump Motors, 3 phase, 3600 RPM, 575 V, 254JM Frame, DP
Close-Coupled Pump Motors



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Nameplate Specifications

| | | | |
|------------------------|-------------------|----------------------------|-------------------|
| Output HP | 20 Hp | Output KW | 14.9 kW |
| Frequency | 60 Hz | Voltage | 575 V |
| Current | 18.5 A | Speed | 3545 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 91 % | Power Factor | 88 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Frame | 254JM | Enclosure | Drip Proof |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6209 | Opp Drive End Bearing Size | 6208 |
| 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 | .464 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | JM | Overall Length | 24.41 in |
| Frame Length | 10.63 in | Shaft Diameter | 1.250 in |
| Shaft Extension | 5.25 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Connection Drawing | A-EE7300 | Outline Drawing | SS620313-254T |

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

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

Data Sheet

Date: 20-06-2017
Customer: _____
Attention: _____
Submitted by: FAREEDA DUDEKULA



254TTDCA6008

Submittal

Data @ **575 V**

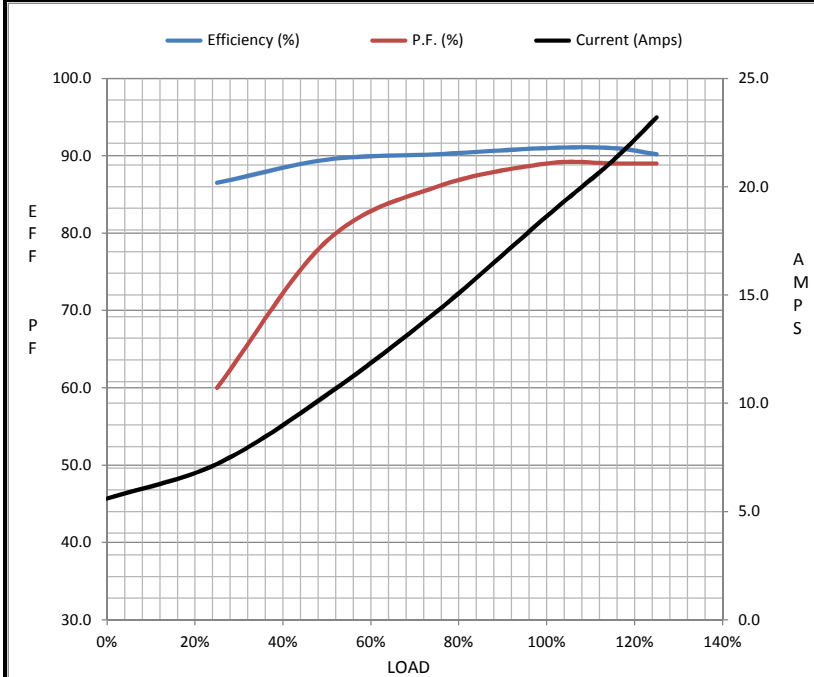
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|------|------|------|
| Current (Amps) | 5.6 | 7.2 | 10.4 | 14.2 | 18.6 | 21.2 | 23.2 | 116 |
| Torque (ft-lb) | 0.00 | 7.4 | 14.7 | 22.2 | 29.5 | 34.2 | 37.2 | 53.0 |
| RPM | 3600 | 3585 | 3572 | 3560 | 3545 | 3538 | 3530 | 0 |
| Efficiency (%) | | 86.5 | 89.5 | 90.2 | 91.0 | 91.0 | 90.2 | |
| P.F. (%) | 7.5 | 60.0 | 79.0 | 86.0 | 89.0 | 89.0 | 89.0 | 38.5 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM) | 0 | 1800 | 3260 | 3545 | 3600 |
| Current (Amps) | 116 | 104 | 72.0 | 18.6 | 5.6 |
| Torque (ft-lb) | 53.0 | 47.5 | 80.0 | 29.5 | 0.00 |

| Information Block | | | | |
|-----------------------------|-------------------------|--------|--------|---------|
| HP | 20.0 | | | |
| Sync. RPM | 3600 | | | |
| Frame | 254 | | | |
| Enclosure | DP | | | |
| Construction | TDC | | | |
| Voltage | 575 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 wk ² | 1.35 Lb-Ft ² | | | |
| Ref Wdg | CHT25420002 NONE | | | |
| Sound Pressure @ 1M | 75 dBA | | | |
| VFD Rating | VARIABLE 10:1 | | | |
| Outline Dwg | B-SS620313 | | | |
| Conn. Diag | A-EE7300 | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 365THFS8036 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.4670 | 0.2810 | 1.5840 | 1.6910 | 59.9770 |



Speed - Torque Curve

