

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 254TTFL16009

Catalog No: U343A

15 HP Close-Coupled Pump Motor, 3 phase, 3600 RPM, 200 V, 254JP Frame, TEFC
Close-Coupled Pump Motors



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RegalRexnord

Nameplate Specifications

| | | | |
|------------------------|------------|----------------------------|-----------------------------|
| Output HP | 15 Hp | Output KW | 11.2 kW |
| Frequency | 60 Hz | Voltage | 200 V |
| Current | 41.5 A | Speed | 3535 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 91 % | Power Factor | 86 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Frame | 254JP | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6309 | Opp Drive End Bearing Size | 6208 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 43 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|-----------------------------|-----------------------|-----------------|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Across The Line |
| Poles | 2 | Rotation | Reversible |
| Resistance Main | .66 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Aluminum |
| Shaft Type | JP | Overall Length | 28.21 in |
| Frame Length | 12.00 in | Shaft Diameter | 1.250 in |
| Shaft Extension | 8.12 in | Assembly/Box Mounting | F1/F2 Capable |
| Outline Drawing | B-SS321156-1200 | Connection Drawing | A-EE7300 |

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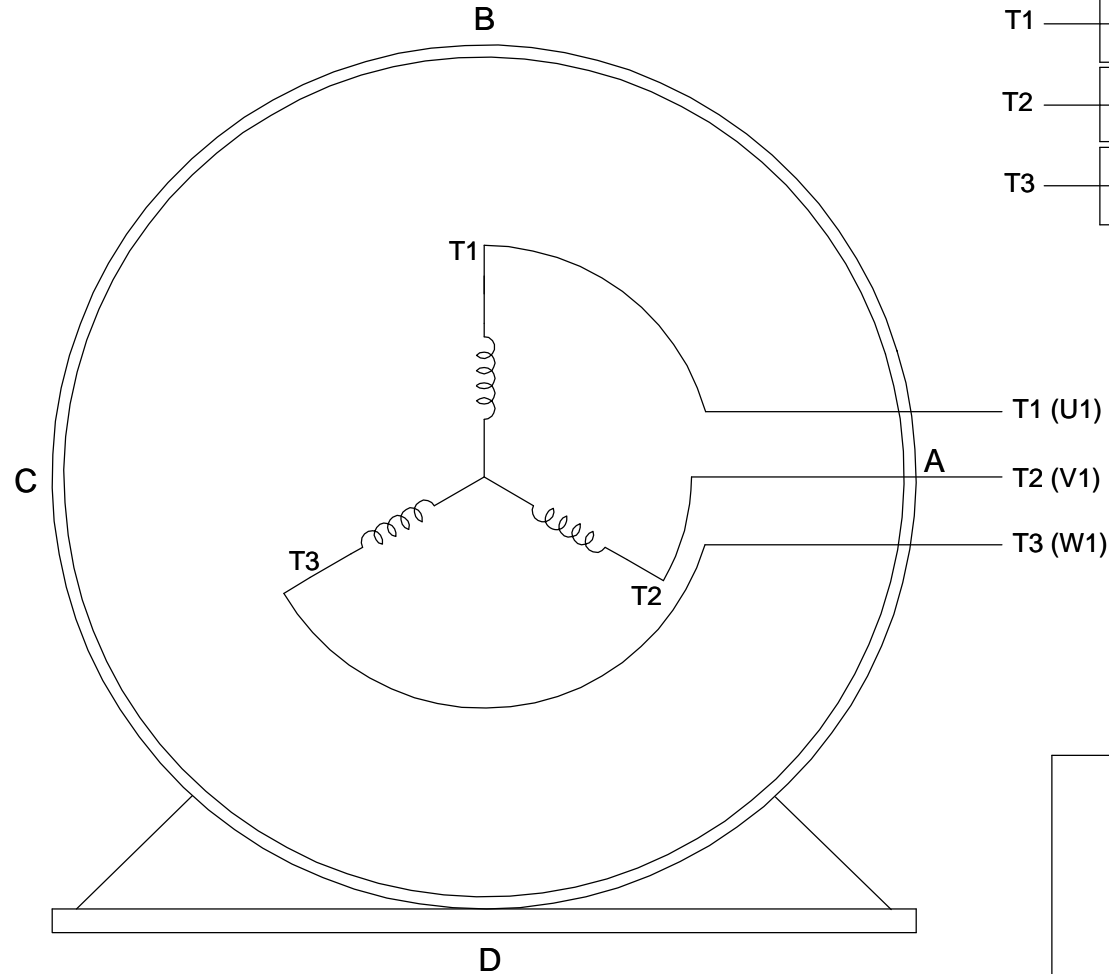
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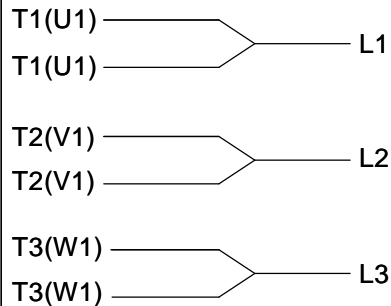
**THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'**

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

TERMINAL BLOCK WHEN SPECIFIED



**IF MOTOR HAS
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD
CONNECTION**



VIEW OF TERMINAL END

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

CERTIFICATION DATA SHEET

Model#: 254TTFL16009 AN
CONN. DIAGRAM: A-EE7300
OUTLINE: B-SS321156-1200

WINDING#: K254296 R1 3
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|------|-----------|----------|-------|-----------|----------|--------|
| 15 | 11.2 | 3600 | 3535 | 254JP | TEFC | G | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|----|-------|---------|-----------------|------------|------|------|-------|-----------|
| 3 | 60 | 200 | 41.5 | ACROSS THE LINE | CONTINUOUS | F3 | 1.15 | 40 | 3300 |

| | | | | | |
|-------------------|--------------------|--------------------|----------|-----------------|--------------|
| FULL LOAD EFF: 91 | 3/4 LOAD EFF: 90.2 | 1/2 LOAD EFF: 88.5 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
| FULL LOAD PF: 86 | 3/4 LOAD PF: 82 | 1/2 LOAD PF: 73 | 90.2 | SQ CAGE IND RUN | 15.6 |

| | | | | |
|-------------|-------------------|--------------|--------------|-------------|
| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
| 22.2 LB-FT | 266.8 | 38 LB-FT 170 | 62 LB-FT 280 | 65 |

| | | | | | | |
|------------------------|-------------|-------------|------------|-----------------|--------------|-------------------|
| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
| 72 dBA | 82 dBA | 1.1 LB-FT^2 | 22 LB-FT^2 | 20 SEC. | 2 | - 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 | 6208 | POLYREX EM | JP | NONE | NONE | 1045 HOT ROLLED (C-204) | ALUMINUM |

| 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: 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 |

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*

DATE: 06/23/2017 04:06:18 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



254TTFL16009

Submittal

Data @ 200 V

Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|----------------|------|------|------|------|------|-------|------|------|--|
| Current (Amps) | 15.6 | 18.4 | 25.3 | 32.7 | 41.4 | 47.2 | 51.8 | 267 | |
| Torque (ft-lb) | 0.00 | 5.5 | 11.0 | 16.5 | 22.2 | 25.0 | 28.0 | 38.0 | |
| RPM | 3600 | 3585 | 3570 | 3555 | 3535 | 3,525 | 3520 | 0 | |
| Efficiency (%) | | 82.5 | 88.5 | 90.2 | 91.0 | 91.0 | 90.2 | | |
| P.F. (%) | 9.5 | 53.0 | 73.0 | 82.0 | 86.0 | 87.0 | 88.0 | 35.0 | |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------|---------|--------|--------|------|--------------------|----------------|----------|----------------|-----|----|----|----|-----|----|----|----|-----|----|----|----|------|----|----|----|------|----|----|----|----------|--|--|--|--|
| Speed (RPM) | 0 | 1800 | 3175 | 3535 | 3600 | Information Block | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Current (Amps) | 267 | 237 | 173 | 41.4 | 15.6 | HP15.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Torque (ft-lb) | 38.0 | 37.0 | 62.0 | 22.2 | 0.00 | Sync. RPM3600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>Efficiency (%)</div><div>P.F. (%)</div><div>Current (Amps)</div></div> <table><thead><tr><th>LOAD</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25%</td><td>83</td><td>20</td><td>18</td></tr><tr><td>50%</td><td>89</td><td>35</td><td>25</td></tr><tr><td>75%</td><td>90</td><td>42</td><td>35</td></tr><tr><td>100%</td><td>91</td><td>46</td><td>45</td></tr><tr><td>125%</td><td>91</td><td>48</td><td>51</td></tr></tbody></table> | | | | | | LOAD | Efficiency (%) | P.F. (%) | Current (Amps) | 25% | 83 | 20 | 18 | 50% | 89 | 35 | 25 | 75% | 90 | 42 | 35 | 100% | 91 | 46 | 45 | 125% | 91 | 48 | 51 | Frame254 | | | | |
| | | | | | | LOAD | Efficiency (%) | P.F. (%) | Current (Amps) | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 25% | 83 | 20 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 50% | 89 | 35 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 75% | 90 | 42 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 100% | 91 | 46 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 125% | 91 | 48 | 51 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | EnclosureTEFC | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | ConstructionTFY | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Voltage200V | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Frequency60Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | DesignA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | LR Code letterG | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Service Factor1.15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Temp Rise @ FL65°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | DutyCONT | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Ambient40°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elevation1,000feet | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rotor/Shaft wk ² 1.10Lb-Ft ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ref WdgK254296 R1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sound Pressure @ 1M72dBA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VFD RatingNONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outline DwgB-SS321156-1200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conn. DiagA-EE7300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Additional Specifications: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R1 | R2 | X1 | X2 | Xm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0800 | 0.0510 | 0.2820 | 0.2360 | 7.4740 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Speed -Torque Curve

