### **PRODUCT INFORMATION PACKET**

Model No: 256TTFCA6038 Catalog No: GT3525 20 HP Close-Coupled Pump Motor, 3 phase, 1800 RPM, 575 V, 256JP Frame, TEFC Close-Coupled Pump Motors



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# marathon<sup>®</sup>

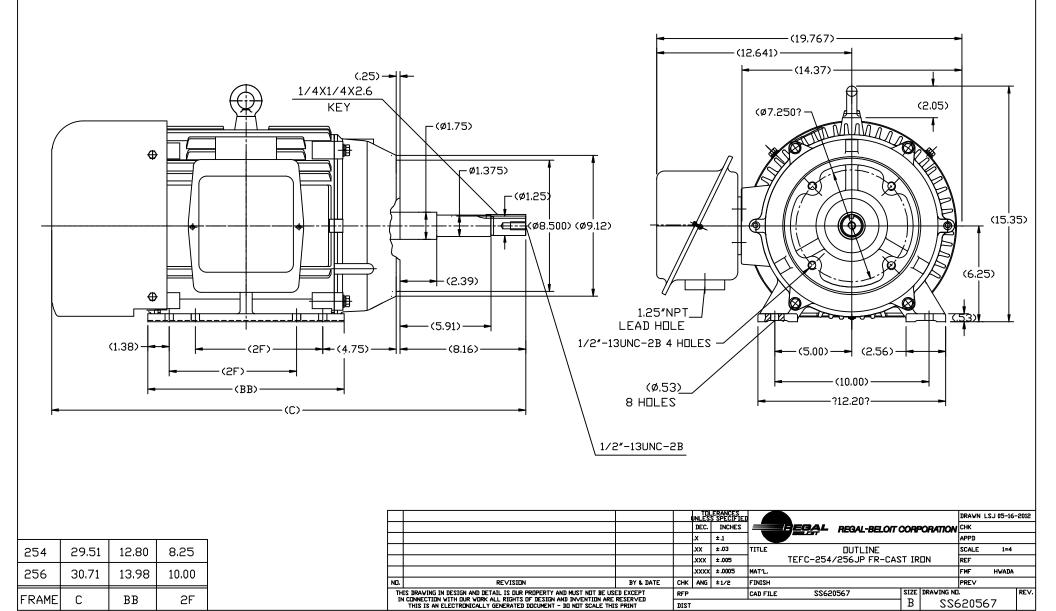
### Nameplate Specifications

| Output HP              | 20 Hp      | Output KW                  | 14.9 kW                     |
|------------------------|------------|----------------------------|-----------------------------|
| Frequency              | 60 Hz      | Voltage                    | 575 V                       |
| Current                | 19.4 A     | Speed                      | 1773 rpm                    |
| Service Factor         | 1.15       | Phase                      | 3                           |
| Efficiency             | 93 %       | Power Factor               | 83.5                        |
| Duty                   | Continuous | Insulation Class           | F                           |
| Design Code            | В          | KVA Code                   | G                           |
| Frame                  | 256JP      | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No         | Ambient Temperature        | 40 °C                       |
| Drive End Bearing Size | 6309       | Opp Drive End Bearing Size | 6209                        |
| UL                     | Recognized | CSA                        | Y                           |
| CE                     | Y          | IP Code                    | 43                          |
| Number of Speeds       | 1          |                            |                             |

### **Technical Specifications**

| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method       | Line Or Inverter |
|-----------------------|------------------------------|-----------------------|------------------|
| Poles                 | 4                            | Rotation              | Reversible       |
| Resistance Main       | .353 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        | 30.71 in         |
| Frame Length          | 12.2 in                      | Shaft Diameter        | 1.250 in         |
| Shaft Extension       | 8.16 in                      | Assembly/Box Mounting | F1/F2 CAPABLE    |
| Outline Drawing       | SS620567-256                 | Connection Drawing    | EE7300           |

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#### **CERTIFICATION DATA SHEET**

| Model#:        | 256TTFCA6038 AA | WINDING#: | CHT25640005 NONE 2 |
|----------------|-----------------|-----------|--------------------|
| CONN. DIAGRAM: | EE7300          | ASSEMBLY: | F1/F2 CAPABLE      |
| OUTLINE:       | SS620567        |           |                    |

#### TYPICAL MOTOR PERFORMANCE DATA

| НР                    |         | ĸw  |         | SYNC. F    | RPM       | F.L. RPM   |      | FRAM              | E          | ENG             | ENCLOSURE   |           | KVA C           | DDE         |     | DESIGN            |          |      |
|-----------------------|---------|---|---------|------------|-----------|------------|------|-------------------|------------|-----------------|-------------|-----------|-----------------|-------------|-----|-------------------|----------|------|
| 20                    |         | 14.9  |         | 1800       | )         | 1773       |      | 256JF             | >          |                 | TEFC        |           | G               |             |     | В                 |          |      |
| РН                    | F       | Ηz  | VOLT    | rs F       | L AMPS    | START TYP  | ΡE   | DUTY              |            | INSL            |             | S.        | F               | AMB°        | с   | ELEVATION         |          |      |
| 3                     | 6       | 60  | 575     | ;          | 19.4      | LINE OR    |      | CONTINUC<br>S     | DU         | F7              | F7          |           | 7 1.1           |             | 5   | 40                |          | 3300 |
| FULL LOAD             | EFF: 93 | FF: 93 3/4 LOAD EFF: 93 1/2 LOAD EFF: 91.7 GTD. EFF |         | ELEC. TYPE |           | TYPE       | ]    |                   | OAD AMPS   |                 |             |           |                 |             |     |                   |          |      |
| FULL LOAD             | PF: 83. | 5 3   | /4 LOAD | PF: 79     | 1/2 L     | OAD PF: 69 |      | 9                 | 92.4 SQ CA |                 | AGE II      | NV RATED  |                 |             | 7.8 |                   |          |      |
| F.L. TO               | DRQUE   |   | LOCK    | ED ROTO    | R AMPS    | L.R.       | то   | RQUE              |            | В.              | B.D. TORQUE |           |                 | F.L. RISE°C |     | RISE°C            |          |      |
| 59.5 L                | _B-FT   |   |         | 112        |           | 104        | LB-F | -FT 175 156 LB-F1 |            | 156 LB-FT 262   |             |           | 60              |             |     |                   |          |      |
| SOUND PRES<br>@ 3 FT. |         | SOUN  | D POWEI | R RC       | DTOR WK^  | 2 MA       | X. V | WK^2 SAFE STALL   |            | SAFE STALL TIME |             |           | STARTS<br>/HOUR |             | APP | ROX. MOTOR<br>WGT |          |      |
| 65 dBA                |         | 7   | 5 dBA   |            | 1 LB-FT^2 | 125        | LB-  | -FT^2 20 SEC.     |            | FT^2            |             | 20 SEC. 2 |                 | 2           |     |                   | 455 LBS. |      |

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

| DE BRACKET<br>TYPE | ODE BRACKET<br>TYPE | MOUNT<br>TYPE | ORIENTATION | SEVERE<br>DUTY | HAZARDOUS<br>LOCATION | DRIP<br>COVER | SCREENS | PAINT            |
|--------------------|---------------------|---------------|-------------|----------------|-----------------------|---------------|---------|------------------|
| C-FACE             | STANDARD            | RIGID         | HORIZONTAL  | FALSE          | NONE                  | FALSE         | NONE    | BLUE<br>(ENAMEL) |

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT          | FRAME     |
|----------|------|------------|------------|------------|-------------|----------------|-----------|
| DE       | OPE  |            |            |            |             | MATERIAL       | MATERIAL  |
| BALL     | BALL | POLYREX EM | JP         | NONE       | NONE        | 1045 HOT       | CAST IRON |
| 6309     | 6209 |            |            |            |             | ROLLED (C-204) |           |

|             | THERMO-PF  | ROTECTORS | 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

|  | information   |
|--|---|
|  | INVERTER TORQUE: VARIABLE 10:1<br>INV. HP SPEED RANGE: NONE |
|  | ENCODER: NONE   |
| Т  | NONE NONE   |
| E<br>S                                   | NONE NONE PPR   |
| *  | BRAKE: NONE NONE  |
|  | NONE P/N NONE<br>NONE NONE                                  |
|  | NONE NONE<br>NONE FT-LB NONE V NONE Hz                      |
| L. L |   |

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