

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 256TTFNA6054  
Catalog No: 256TTFNA6054  
20,1800,TEFC,256TC,3/60/230/460

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**RegalRexnord**

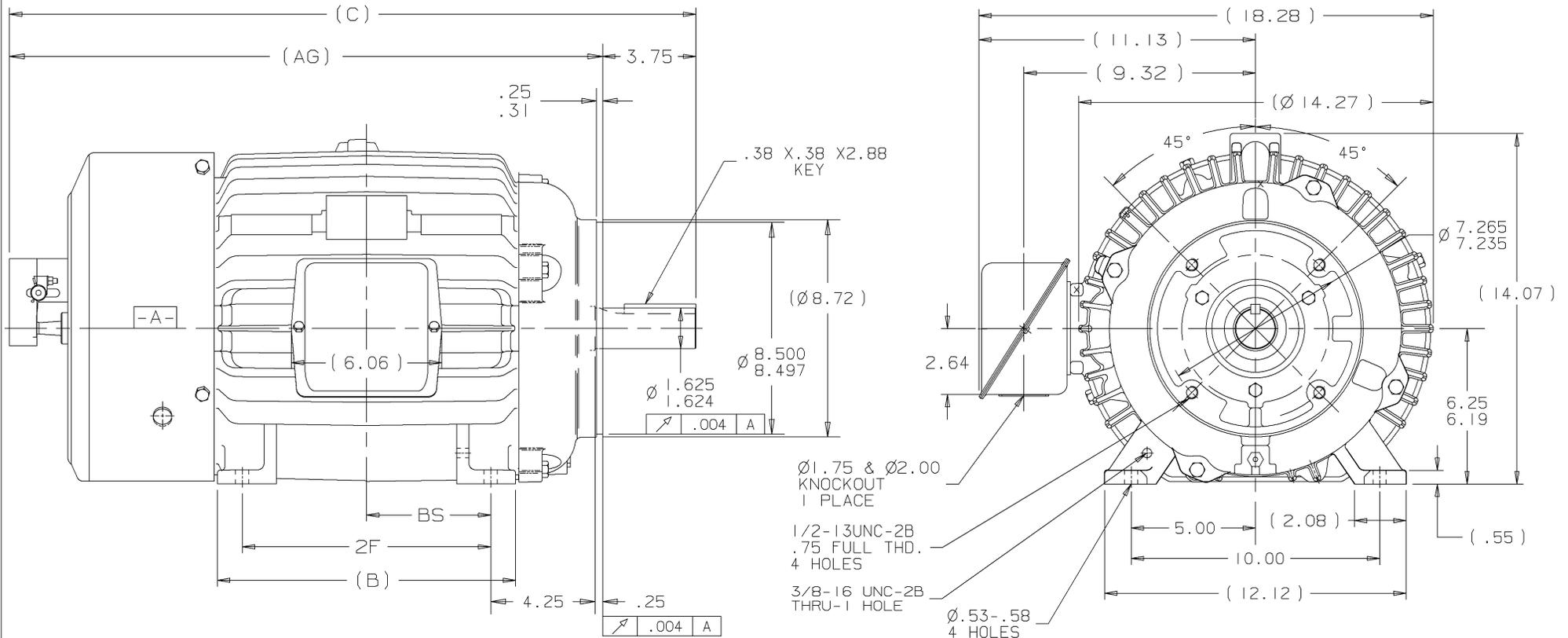
### Nameplate Specifications

|                        |                    |                            |                                    |
|------------------------|--------------------|----------------------------|------------------------------------|
| Phase                  | <b>3</b>           | Output HP                  | <b>20 Hp</b>                       |
| Output KW              | <b>14.9 kW</b>     | Voltage                    | <b>230/460 V</b>                   |
| Speed                  | <b>1775 rpm</b>    | Service Factor             | <b>1.15</b>                        |
| Frame                  | <b>256</b>         | Enclosure                  | <b>Totally Enclosed Fan Cooled</b> |
| Thermal Protection     | <b>Thermostat</b>  | Efficiency                 | <b>93 %</b>                        |
| Ambient Temperature    | <b>40 °C</b>       | Frequency                  | <b>60 Hz</b>                       |
| Current                | <b>48.0/24.1 A</b> | Power Factor               | <b>84</b>                          |
| Duty                   | <b>Continuous</b>  | Insulation Class           | <b>F</b>                           |
| Design Code            | <b>B</b>           | KVA Code                   | <b>G</b>                           |
| Drive End Bearing Size | <b>309</b>         | Opp Drive End Bearing Size | <b>210</b>                         |
| UL                     | <b>Recognized</b>  | CSA                        | <b>Y</b>                           |
| IP Code                | <b>43</b>          | Number of Speeds           | <b>1</b>                           |

### Technical Specifications

|                       |                                    |                       |                        |
|-----------------------|------------------------------------|-----------------------|------------------------|
| Electrical Type       | <b>Squirrel Cage Induction Run</b> | Starting Method       | <b>Across The Line</b> |
| Poles                 | <b>4</b>                           | Rotation              | <b>Reversible</b>      |
| Resistance Main       | <b>.474 Ohms</b>                   | Mounting              | <b>Rigid Base</b>      |
| Motor Orientation     | <b>Horizontal</b>                  | Drive End Bearing     | <b>Ball</b>            |
| Opp Drive End Bearing | <b>Ball</b>                        | Frame Material        | <b>Cast Iron</b>       |
| Shaft Type            | <b>T</b>                           | Assembly/Box Mounting | <b>F1/F2 CAPABLE</b>   |
| Outline Drawing       | <b>B-SS203644-1225</b>             | Connection Drawing    | <b>A-EE7308T</b>       |

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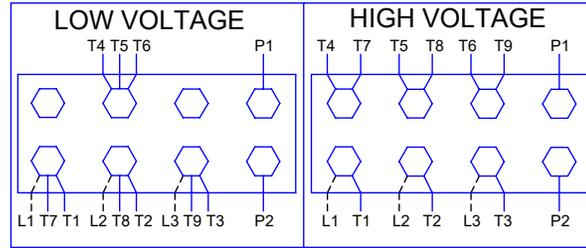
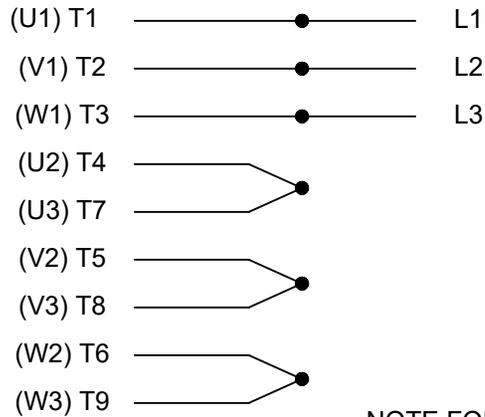
NOTES:

1. BOX CAN BE ROTATED ON ITS AXIS.
2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR

| DASH | FRAME | B     | C     | 2F    | BS   | AG    |
|------|-------|-------|-------|-------|------|-------|
| 1050 | 254TC | 10.25 | 25.88 | 8.25  | 4.12 | 22.13 |
| 1225 | 254TC | 12.00 | 27.63 | 10.00 | 5.00 | 23.88 |

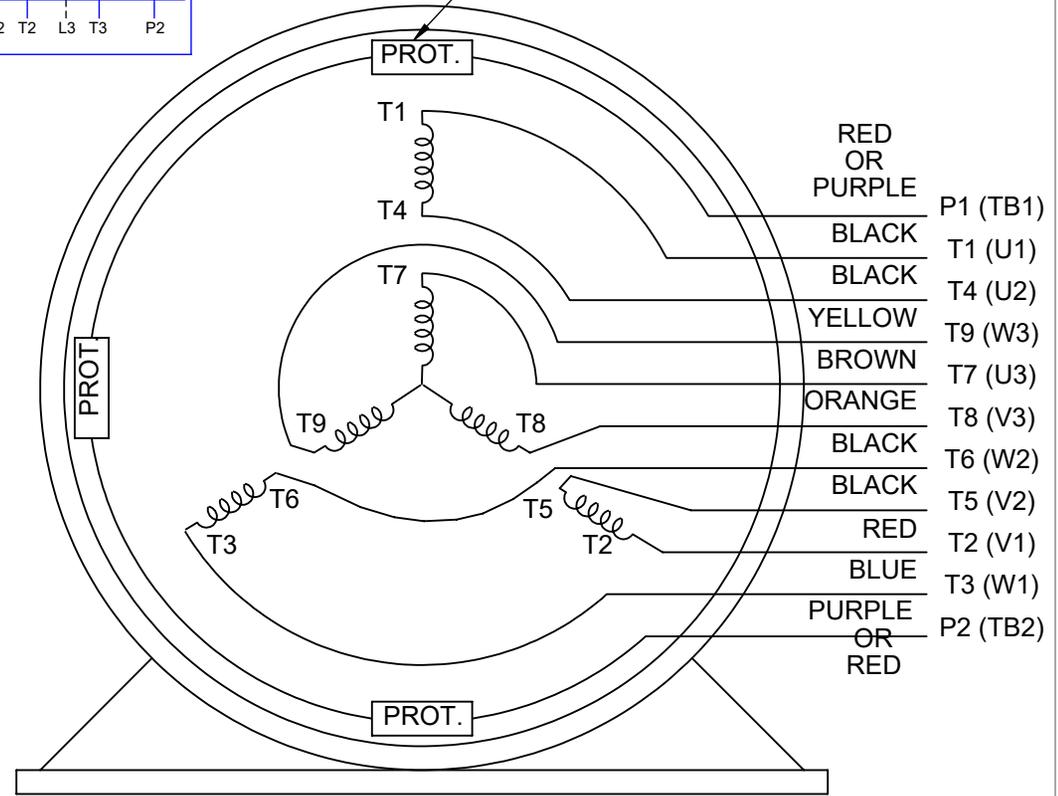
|     |            |                      |         |     |  |  |
|-----|------------|----------------------|---------|-----|--|--|
| 2   | 04-16-2001 | CHANGED REAR BRACKET | MU3656B | DAH | ✓ MAX. SURFACE ROUGHNESS UNLESS NOTED OTHERWISE  | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.03 XXX±.005 XXXX±.0005 ANGLES± 7'30" |
|     |            |                      |         |     | MATL SPEC  | SHEET METAL CONDUIT BOX  |
| 1   | 04-12-2001 | NEW DRAWING          | MU3656B | DAH | FINISH   | <br>WAUSAU, WISCONSIN 54401  |
|     |            |                      |         |     | PART NAME OUTLINE - TEFC<br>250TC FRAME - BB - TS - TEFC                                 | DRWG NO<br>B-SS203644  |
| REV | DATE       | CHANGE               | NAME    |     | SHOP BOOK   PURCHASED   DISTRIBUTION - WA - LB - WP - LM - BR   CADD FILE NO.   SS203644 |  |

**HIGH VOLTAGE**



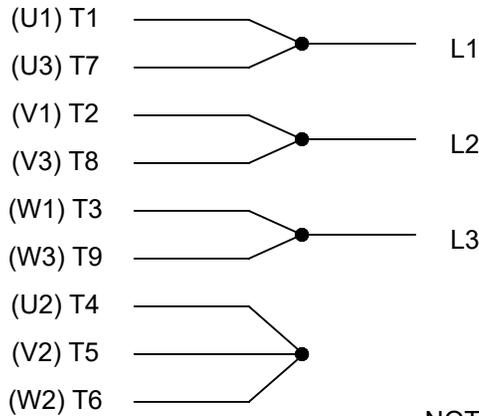
**THREE PHASE  
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS  
CONNECTED IN SERIES



NOTE FOR FACTORY USE ONLY:  
TO SURGE TEST FOR COMMON CONNECT:  
HIGH VOLT: CONNECT P1 TO T1  
THEN P2 TO L1  
LOW VOLT: CONNECT P1 TO T1 & T7,  
THEN P2 TO L1

**LOW VOLTAGE**



**VIEW OF TERMINAL END**

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

|   |                   |                    |                            |                    |   |                 |
|---|-------------------|--------------------|----------------------------|--------------------|---|-----------------|
| DRAWING REVISION<br>T   | REVISION BY<br>ZR | DATE<br>01-14-2019 |                            | DRAWN BY<br>SMC    | Regal Beloit America, Inc.  |                 |
| ECO<br>ECO-0159915  | APPROVED BY<br>DR | DATE<br>01-15-2019 |                            | DATE<br>05-13-1992 |   |                 |
| ECO DESCRIPTION<br><b>ADDED TERMINAL CONNECTION DIAGRAM</b>   |                   |                    |                            | APPROVED BY<br>TB  | DESCRIPTION<br><b>CONN DIAGRAM-INTERNAL</b><br>3 PHASE - DUAL VOLTAGE MOTOR |                 |
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|   |                   |                    | REFERENCE<br>EE7308/EE7300 | SIZE<br>A          | DRAWING NUMBER<br>EE7308T   | SHEET<br>1 OF 1 |
|   |                   |                    | THIRD ANGLE<br>PROJECTION  |                    |   |                 |