marathon®

# General Purpose Motors

**Model No:** TCA0753AE231GAA009
**Catalog No:** R862

General Purpose Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 RPM, 315S Frame, TEFC

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# Product Information Packet: Model No: TCA0753AE231GAA009, Catalog No: R862 General Purpose Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 RPM, 315S Frame, TEFC

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **100 & 75 Hp** |
| Output KW | **75.0 & 56.0 kW** | Voltage | **230/460 & 200/400 V** |
| Speed | **1190 & 995 r/min** | Synchronous RPM | **1200 & 1000 r/min** |
| Service Factor | **1.15 & 1.15** | Frame | **315S** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **95 & 94.1 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 50 Hz** | Current | **261.6/130.8 & 222/111 A** |
| Power Factor | **81** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **N (IEC)** |
| KVA Code | **G** | Drive End Bearing Size | **6319** |
| Opp Drive End Bearing Size | **6319** | UL | **Recognized** |
| CSA | **N** | CE | **Y** |
| IP Code | **55** | Number of Speeds | **1** |

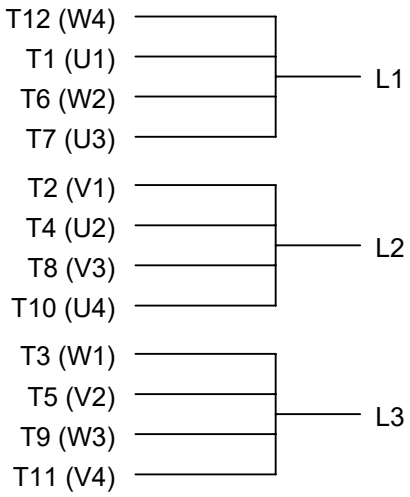
## Technical Specifications

| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Line Or Inverter** |
| Poles | **6** | Rotation | **Reversible** |
| Resistance Main | **.04 O** | Mounting | **B3** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Cast Iron** |
| Shaft Type | **IEC** | Shaft Diameter | **80 in** |
| Assembly/Box Mounting | **F3** | Inverter Load | **Constant 2:1/Variable 10:1** |

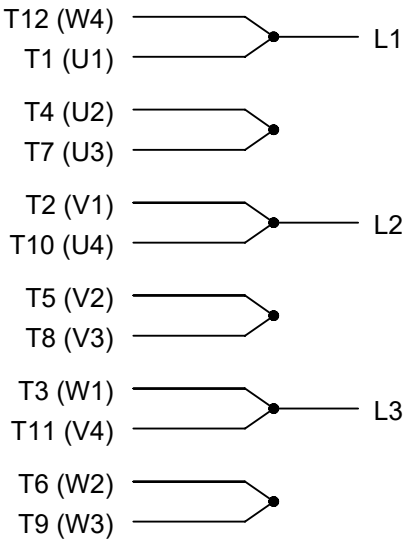
## Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **EE7308AA** | Outline Drawing | **SS558098** |

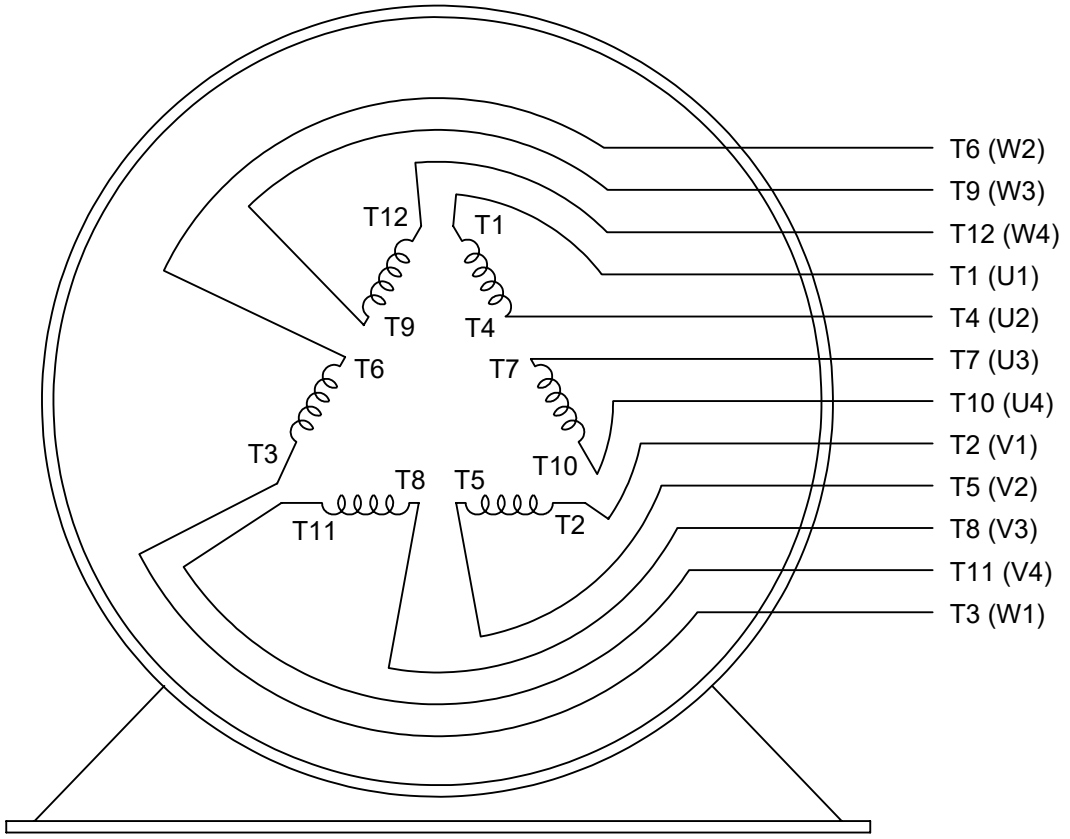
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LOW VOLTAGE




HIGH VOLTAGE




VIEW OF TERMINAL END

| | | | | | |
|---|---|---|---|---|---|
| DRAWING REVISION: L | REVISION BY: SB | REV DATE/© DATE: 08/01/2025 | PRIMARY DIMENSIONS ARE INCH<br>mm DIMENSIONS IN [BRACKETS]<br>ARE FOR REFERENCE ONLY | DRAWN BY: LZ | marathon™ |
| REQUEST NUMBER: CR-0023654 | APPROVED BY: SBD | DATE: 08/01/2025 | | DATE: 01-12-1994 | |
| REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED | | | | APPROVED BY: GK | DESCRIPTION: CONN DIAGRAM-EXTERNAL<br>3Ø-2/1 DELTA-12 LEADS |
| | | | | DATE: 01-14-1994 | |
| | | | | REFERENCE | MATERIAL / PROCESS/FINISH |
| | | | | THIRD ANGLE PROJECTION | SIZE: A / DRAWING NUMBER: EE7308AA / SHEET: 1 OF 1 |

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