marathon®

# General Purpose Motors

**Model No:** TCA0041AE221GAA009
**Catalog No:** R224

General Purpose Motor, 5.50 & 4 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 RPM, 112M Frame, TEFC

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## Product Information Packet: Model No: TCA0041AE221GAA009, Catalog No: R224 General Purpose Motor, 5.50 & 4 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 RPM, 112M Frame, TEFC

### Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **5.50 & 4 Hp** |
| Output KW | **4.0 & 3.0 kW** | Voltage | **230/460 & 200/400 V** |
| Speed | **3520 & 2940 r/min** | Synchronous RPM | **3600 & 3000 r/min** |
| Service Factor | **1.15 & 1.15** | Frame | **112M** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **89.5 & 87.1 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 50 Hz** | Current | **17.1/8.5 & 13.5/6.7 A** |
| Power Factor | **91** | Duty | **Continuous** |
| Insulation Class | **F8** | Design Code | **N (IEC)** |
| KVA Code | **J** | Drive End Bearing Size | **6306** |
| Opp Drive End Bearing Size | **6206** | UL | **Recognized** |
| CSA | **N** | CE | **Y** |
| IP Code | **55** | Number of Speeds | **1** |

### Technical Specifications

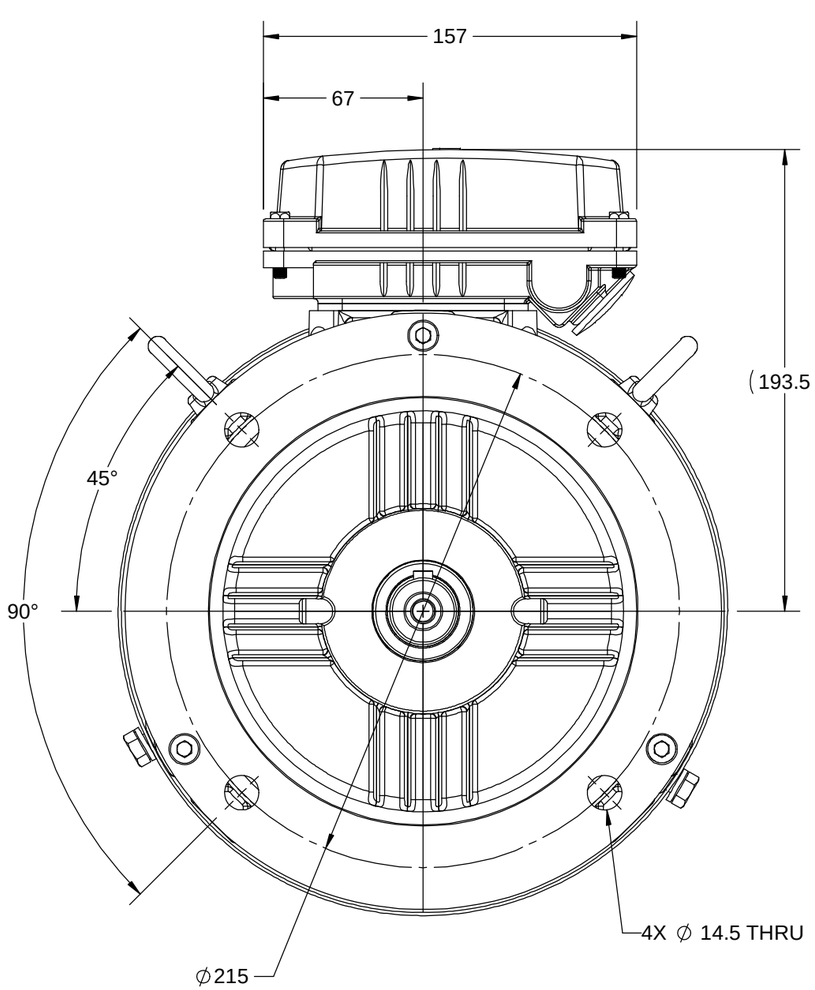
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Inverter Rated** | Starting Method | **Line Or Inverter** |
| Poles | **2** | Rotation | **Reversible** |
| Resistance Main | **3.17 O** | Mounting | **Round** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Cast Iron** |
| Shaft Type | **IEC** | Overall Length | **15.71 in** |
| Frame Length | **6.85 in** | Shaft Diameter | **1.102 in** |
| Shaft Extension | **2.36 in** | Assembly/Box Mounting | **F3** |
| Inverter Load | **Constant 2:1/Variable 10:1** | | |

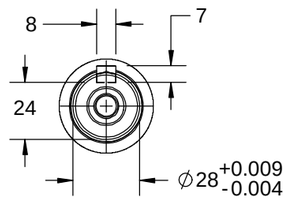
### Drawings

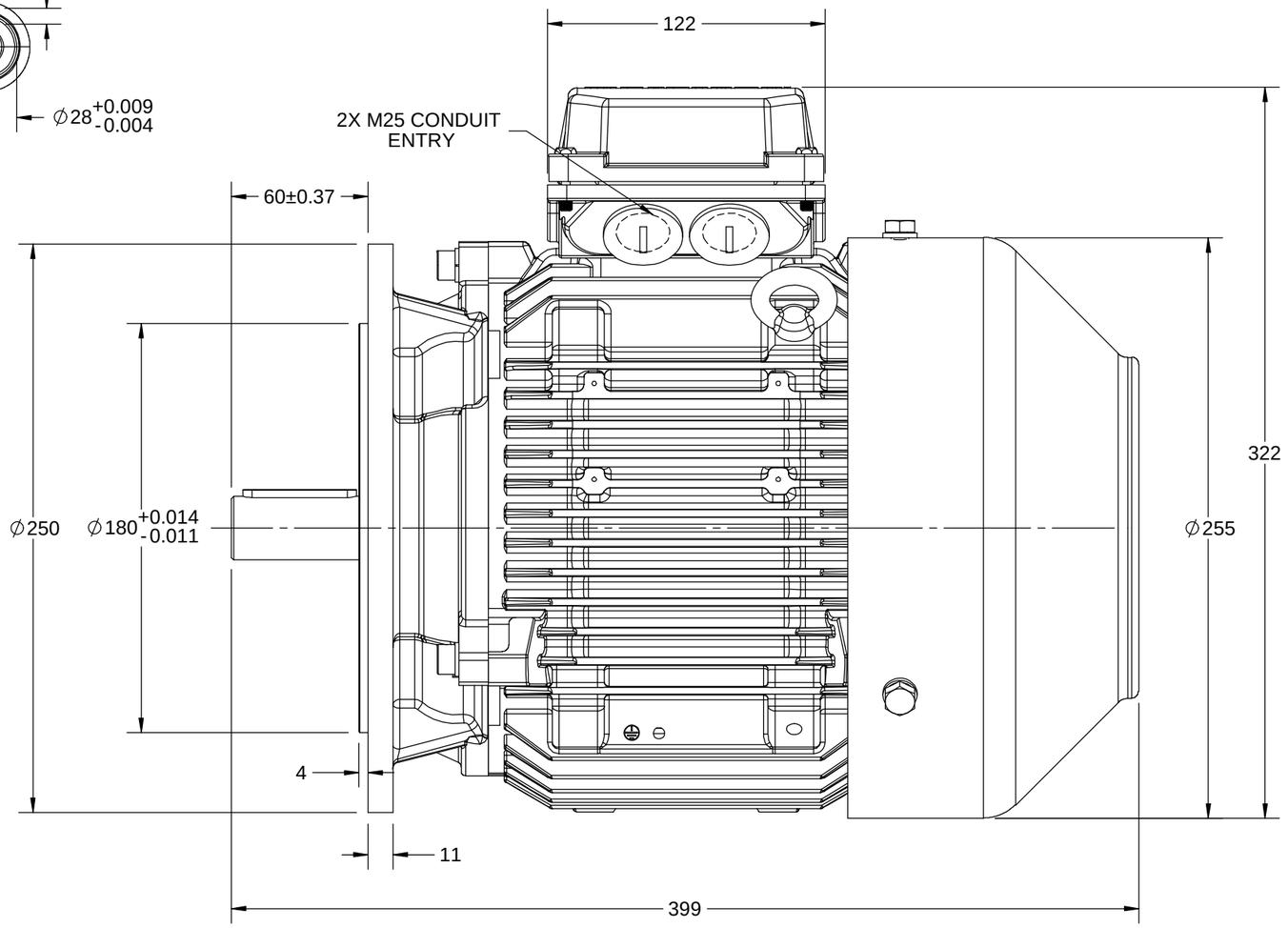
| | | | |
|---|---|---|---|
| Connection Drawing | **8442000676** | Outline Drawing | **SS600217A** |

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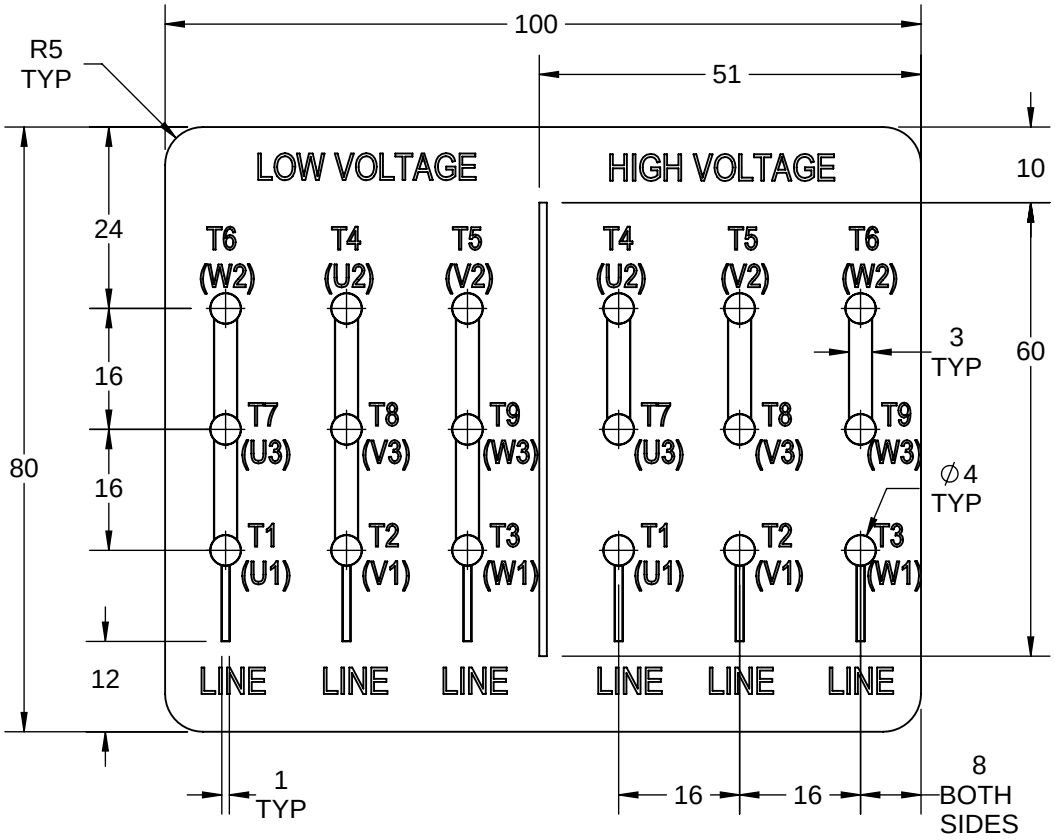




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|---|---|---|---|---|---|
| DRAWING REVISION: A | REVISION BY: NIV | DATE: 10/12/2018 | | DRAWN BY: NIV | marathon™ Motors |
| ECO: ECO-0157171 | APPROVED BY: JAY | DATE: 10/12/2018 | | DATE: 10/12/2018 | |
| ECO DESCRIPTION: NEW DRAWING RELEASE | | | | APPROVED BY: JAY | DESCRIPTION: OUTLINE |
| | | | | DATE: 10/12/2018 | IEC-112 FR.- B5 MOTOR TYPE: TEFC-CAST IRON |
| | | | | REFERENCE | MATERIAL / PROCESS/FINISH |
| | | | | THIRD ANGLE PROJECTION | SIZE: B / DRAWING NUMBER: SS600217A / SHEET: 1 OF 1 |

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| GENERAL TOLERANCE | | |
|---|---|---|
| LINEAR DIM | >0~6 | ±0.1 |
| | >6~30 | ±0.2 |
| | >30~120 | ±0.3 |




NOTES:

1. PRESSURE-SENSITIVE ADHESIVE TAPE COATED WITH ANTI-ADHESIVE.
2. YELLOW COLOR BACK GROUND LETTERS WILL BE BLACK.
3. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY THE TABLE.
4. LEAD TERMINAL MARKINGS FONT SIZE : T1-T12 & U1-U4,V1-V4& W1-W4 OF ARIAL WITH 3mm SIZE
5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

| DRAWING REVISION | REVISION BY | REV DATE/© DATE |
|---|---|---|
| D | SV | 05/11/2026 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0026249 | RMS | 05/11/2026 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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| DRAWN BY | DATE |
|---|---|
| NIV | 29/01/2019 |
| APPROVED BY | DATE |
| JAY | 29/01/2019 |
| REFERENCE | |

THIRD ANGLE PROJECTION

marathon™

DESCRIPTION
CONNECTION DIAGRAM
9 LEAD -DELTA CONNECTION

| MATERIAL | PROCESS/FINISH |
|---|---|
| | |

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| A | 8442000676 | 1 OF 1 |