marathon®

# General Purpose Motors

**Model No:** TCA0372AP211GAA009
**Catalog No:** R449

General Purpose Motor, 50 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 225S Frame, TEFC

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## Product Information Packet: Model No: TCA0372AP211GAA009, Catalog No: R449 General Purpose Motor, 50 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 225S Frame, TEFC

### Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **50 Hp** |
| Output KW | **37.0 kW** | Voltage | **575 V** |
| Speed | **1785 r/min** | Synchronous RPM | **1800 r/min** |
| Service Factor | **1.15** | Frame | **225S** |
| Enclosure | **Totally Enclosed Fan Cooled** | Thermal Protection | **No Protection** |
| Efficiency | **94.5 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 Hz** | Current | **49.8 A** |
| Power Factor | **84** | Duty | **Continuous** |
| Insulation Class | **F8** | Design Code | **N (IEC)** |
| KVA Code | **J** | Drive End Bearing Size | **6313** |
| Opp Drive End Bearing Size | **6213** | 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 | **4** | Rotation | **Reversible** |
| Resistance Main | **.13 O** | Mounting | **B3** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Cast Iron** |
| Shaft Type | **IEC** | Overall Length | **32.95 in** |
| Frame Length | **15.748 in** | Shaft Diameter | **2.362 in** |
| Shaft Extension | **5.51 in** | Assembly/Box Mounting | **F3** |
| Inverter Load | **Constant 2:1/Variable 10:1** | | |

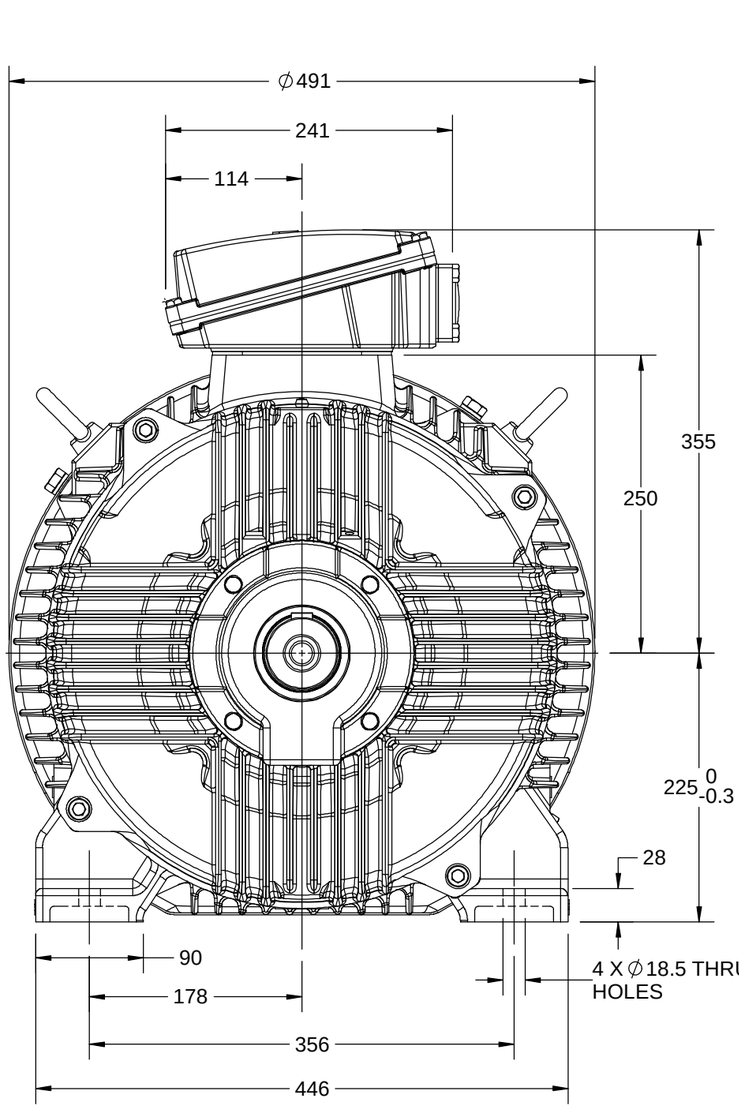
### Drawings

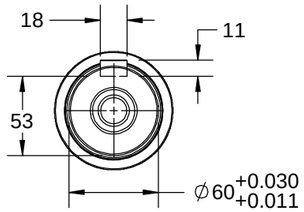
| | | | |
|---|---|---|---|
| Connection Drawing | **8442000685** | Outline Drawing | **SS557720** |

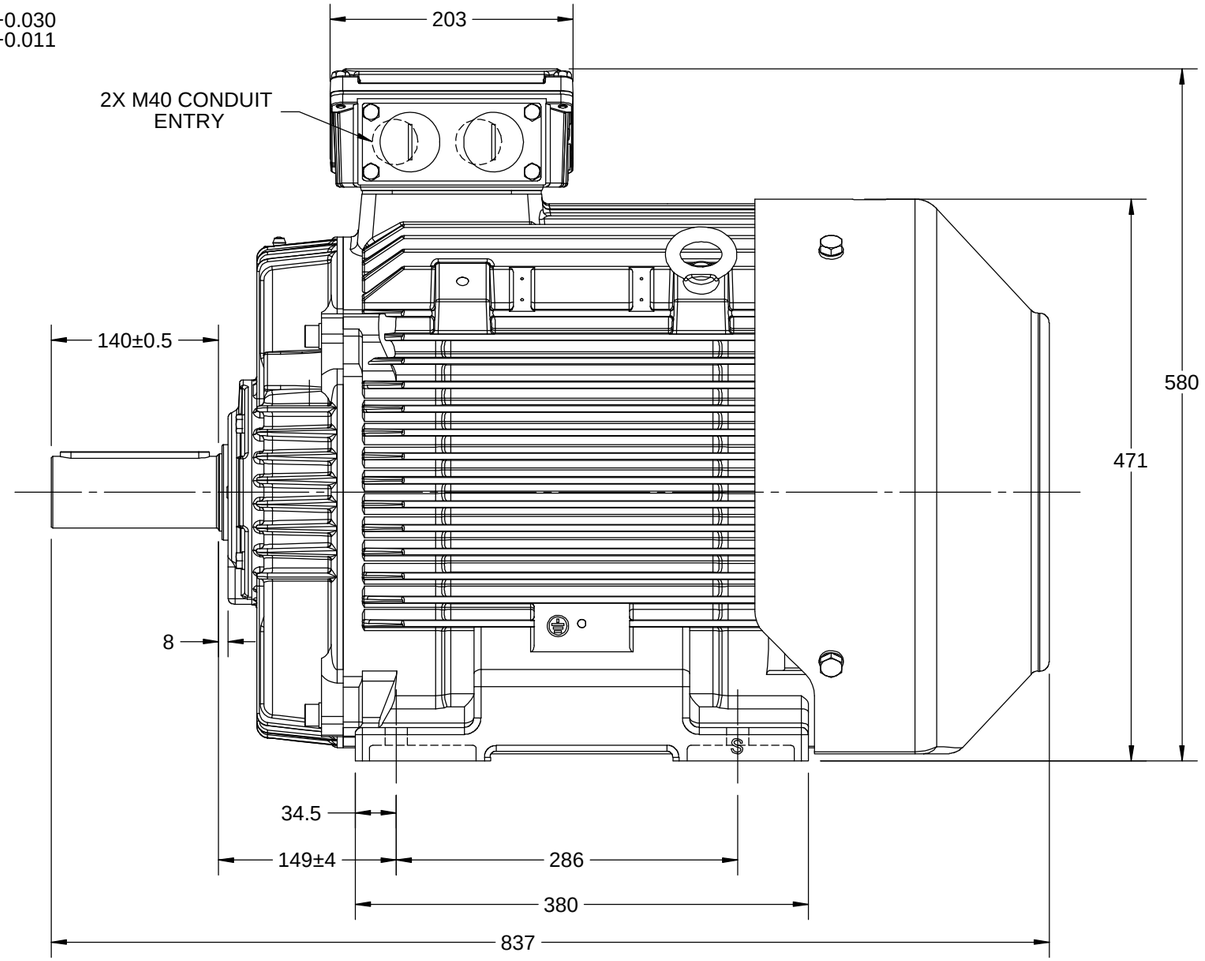
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# OUTLINE



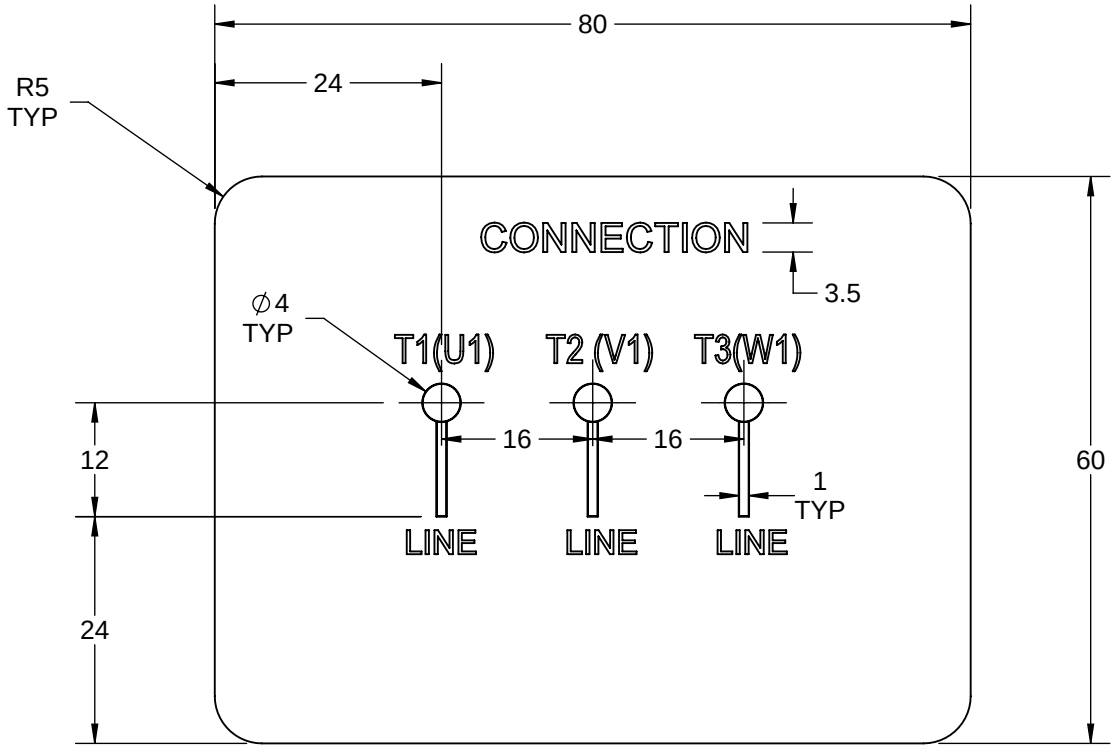




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|---|---|---|---|---|---|
| DRAWING REVISION: A | REVISION BY: LK | DATE: 05/12/2018 | | DRAWN BY: LK | marathon™ Motors |
| ECO: ECO-0157830 | APPROVED BY: JAY | DATE: 05/12/2018 | | DATE: 05/12/2018 | |
| ECO DESCRIPTION: NEW DRAWING RELEASE | | | | APPROVED BY: JAY | DESCRIPTION: OUTLINE |
| | | | | DATE: 05/12/2018 | IEC-225S-4P-B3 MOTOR TYPE: TEFC-CAST IRON |
| | | | | REFERENCE | MATERIAL / PROCESS/FINISH |
| | | | | THIRD ANGLE PROJECTION | SIZE: B / DRAWING NUMBER: SS557720 / 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. DIMENSIONS WITHOUT INDICATED TOLERANCES SHALL CONFORM TO THE GENERAL TOLERANCE TABLE
4. LEAD TERMINAL MARKINGS FONT SIZE : T1-T2 - T3 & U1-V1-W1 OF ARIAL WITH 3mm SIZE
5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

| DRAWING REVISION | REVISION BY | REV DATE/© DATE |
|---|---|---|
| B | SB | 06/03/2026 |
| REQUEST NUMBER | APPROVED BY | DATE |
| CR-0026504 | RMS | 06/03/2026 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

| | |
|---|---|
| DRAWN BY | A. KEETHA |
| DATE | 24/07/2019 |
| APPROVED BY | SN |
| DATE | 24/07/2019 |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

marathon™

DESCRIPTION
CONNECTION DIAGRAM
3 LEAD CONNECTION

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

| SIZE | DRAWING NUMBER | SHEET |
|---|---|---|
| A | 8442000685 | 1 OF 1 |