marathon®

Cast Iron Motors

Model No: TCA0031AE221GAA009
Catalog No: R251

Cast Iron Motor, 4 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 RPM, 100L Frame, TEFC

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Product Information Packet: Model No: TCA0031AE221GAA009, Catalog No: R251 Cast Iron Motor, 4 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 RPM, 100L Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**4 & 3 Hp**
Output KW	**3.0 & 2.2 kW**	Voltage	**230/460 & 200/400 V**
Speed	**3500 & 2915 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**100L**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**88.5 & 85.9 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**11.7/5.8 & 10.4/5.2 A**
Power Factor	**89**	Duty	**Continuous**
Insulation Class	**F8**	Design Code	**N (IEC)**
KVA Code	**K**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6206**	UL	**Recognized**
CSA	**N**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**

Technical Specifications

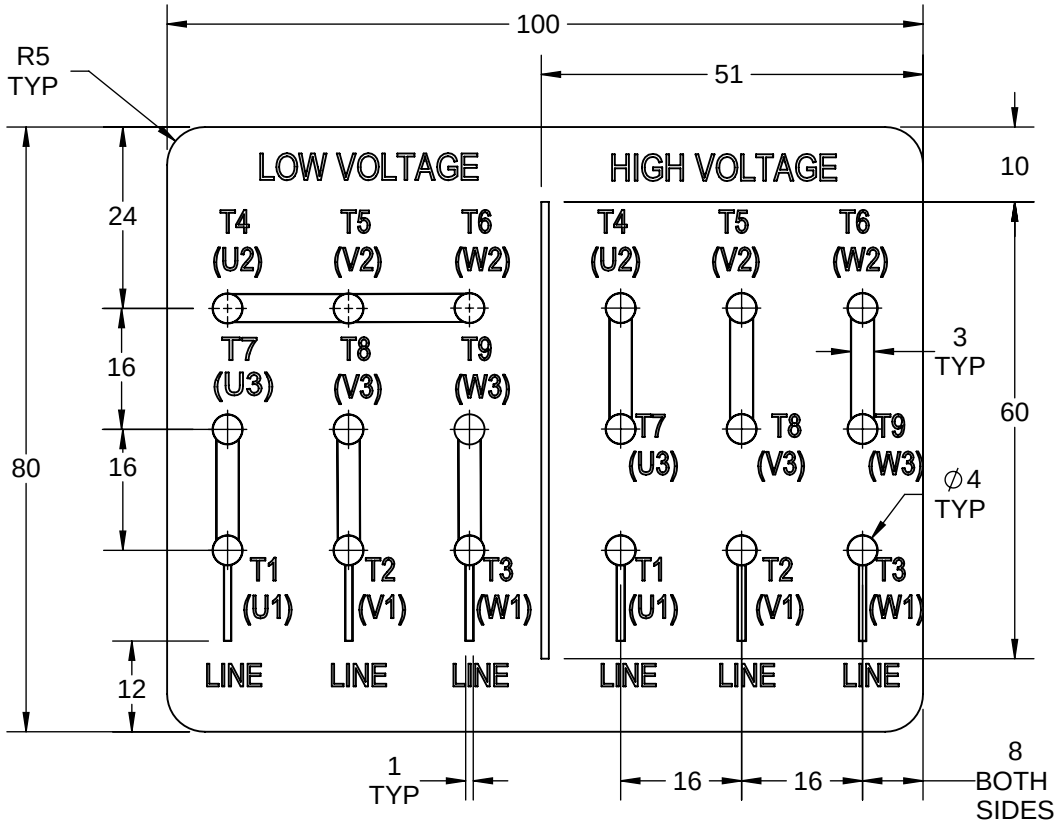
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**3.74 O**	Mounting	**Round**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	Overall Length	**15.67 in**
Frame Length	**7.874 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	**8442000675**	Outline Drawing	**SS600216A**

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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
C	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 LEADS- STAR CONNECTON

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	8442000675	1 OF 1