marathon®

General Purpose Motors

Model No: TCA0042AE221GAA009
Catalog No: R225

General Purpose Motor, 5.50 & 4 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 RPM, 112M Frame, TEFC

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Product Information Packet: Model No: TCA0042AE221GAA009, Catalog No: R225 General Purpose Motor, 5.50 & 4 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 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	**1765 & 1470 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**112M**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**91.7 & 87.7 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**18.1/9.0 & 13.6/6.8 A**
Power Factor	**80**	Duty	**Continuous**
Insulation Class	**F8**	Design Code	**N (IEC)**
KVA Code	**M**	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

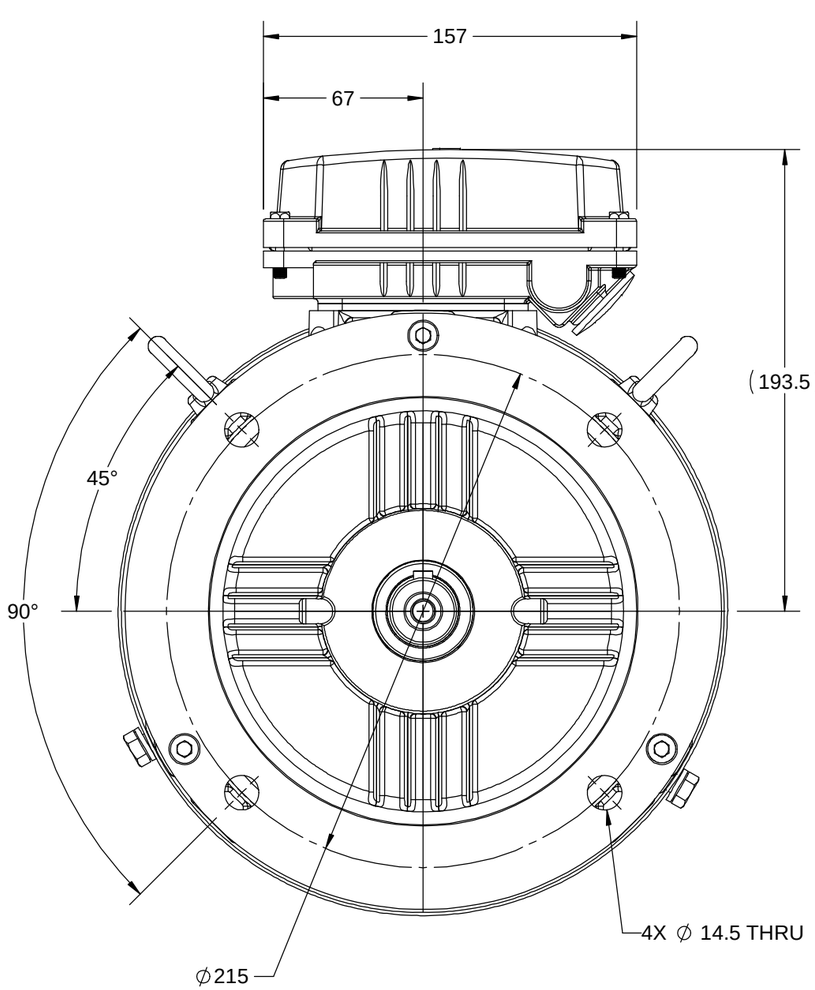
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**2.33 O**	Mounting	**Round**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	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**		

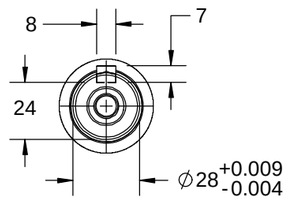
Drawings

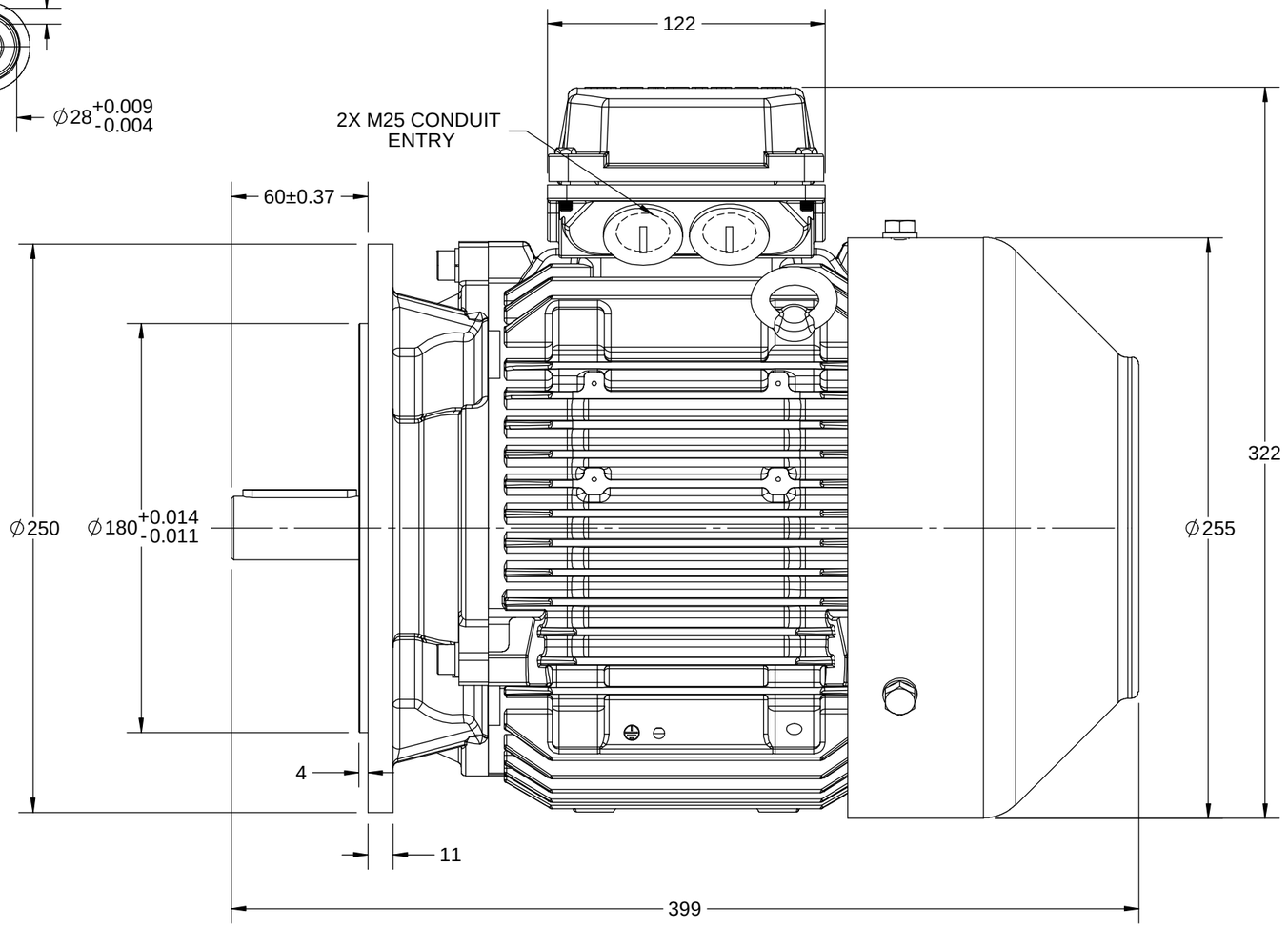
Connection Drawing	**8442000730**	Outline Drawing	**SS600217A**

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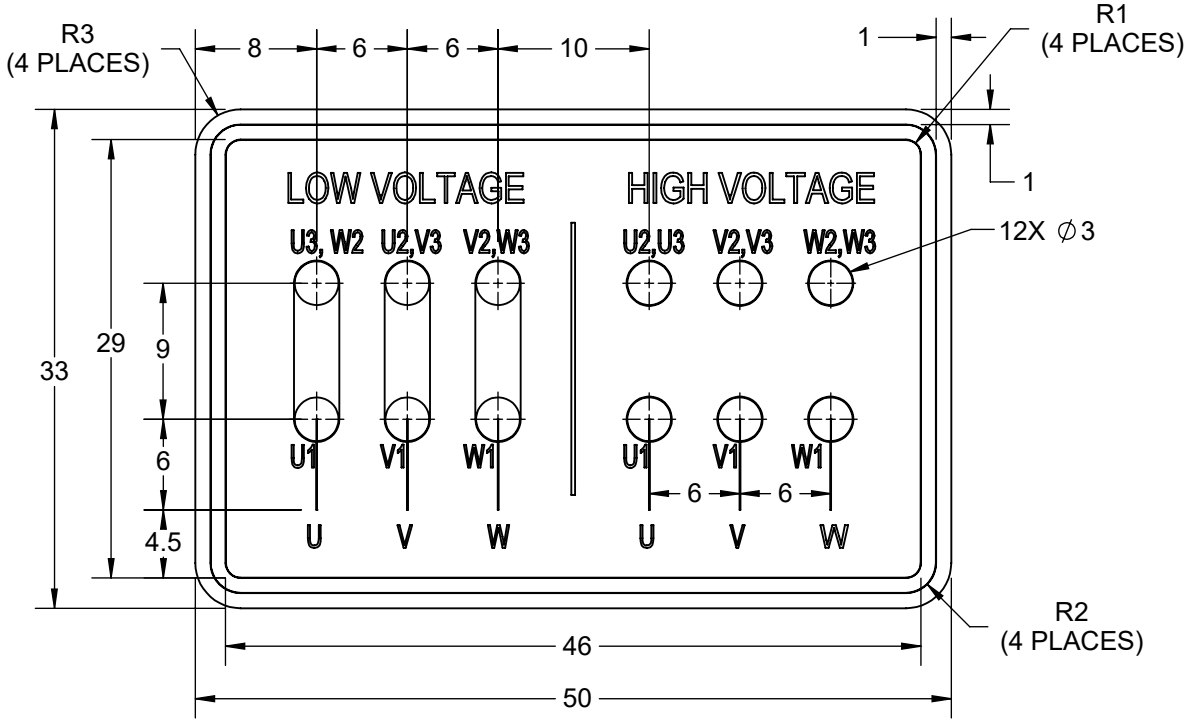
DRAWING REVISION: A	REVISION BY: NIV	DATE: 10/12/2018		DRAWN BY: NIV	marathon™ Motors
ECO: ECO-0157171	APPROVED BY: JAY	DATE: 10/12/2018		DATE: 10/12/2018	
ECO DESCRIPTION: NEW DRAWING RELEASE				APPROVED BY: JAY	DESCRIPTION: OUTLINE
				DATE: 10/12/2018	IEC-112 FR.- B5 MOTOR TYPE: TEFC-CAST IRON
		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

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DRAWING REVISION	REVISION BY	REV DATE/© DATE
B	SB	08/04/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023654	SBD	08/04/2025
REQUEST NUMBER DESCRIPTION		
DRAWING TITLE BLOCK UPDATED		

GEOMENTRIC TOLERANCE		
LINEAR DIM	>0~6	±0.1
	>6~30	±0.2
	>30~120	±0.3



NOTES:

1. PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE.
2. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK.
3. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY THE TABLE.
4. LEAD TERMINAL MARKINGS FONT SIZE : U1-U3, V1-V3 AND W1-W3 OF ARIAL WITH 3mm SIZE
5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

PRIMARY DIMENSIONS ARE mm
INCH DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY: LK	marathon™	
DATE: 14/7/2021		
APPROVED BY: JAY	DESCRIPTION: CONN DIAGRAM-NAMEPLATE	
DATE: 14/7/2021	9LEADS - DELTA CONNECTION	
REFERENCE	MATERIAL: REFER NOTES	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: A	DRAWING NUMBER: 8442000730
		SHEET: 1 OF 1