marathon®

General Purpose Motors

Model No: TCA0153AE221GAA009
Catalog No: R238

General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 RPM, 180L Frame, TEFC

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Product Information Packet: Model No: TCA0153AE221GAA009, Catalog No: R238 General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 RPM, 180L Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**20 & 15 Hp**
Output KW	**15.0 & 11.0 kW**	Voltage	**230/460 & 200/400 V**
Speed	**1180 & 985 r/min**	Synchronous RPM	**1200 & 1000 r/min**
Service Factor	**1.15**	Frame	**180L**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**91.7 & 90.3 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**57.7/28.8 & 48.3/24.1 A**
Power Factor	**77**	Duty	**Continuous**
Insulation Class	**F8**	Design Code	**N (IEC)**
KVA Code	**F**	Drive End Bearing Size	**6311**
Opp Drive End Bearing Size	**6211**	UL	**Recognized**
CSA	**N**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**

Technical Specifications

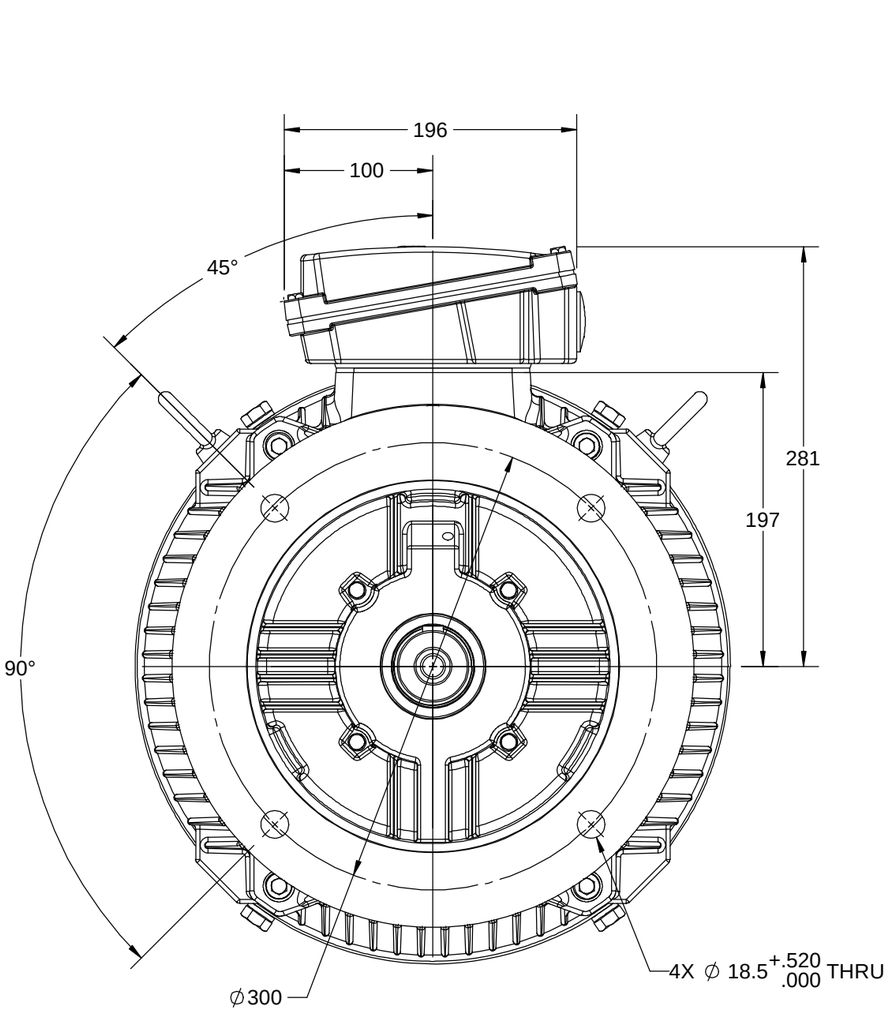
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**.56 O**	Mounting	**Round**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	Overall Length	**29.53 in**
Frame Length	**14.409 in**	Shaft Diameter	**1.890 in**
Shaft Extension	**4.33 in**	Assembly/Box Mounting	**F3**
Inverter Load	**Constant 2:1/Variable 10:1**		

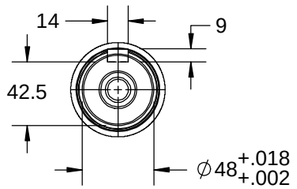
Drawings

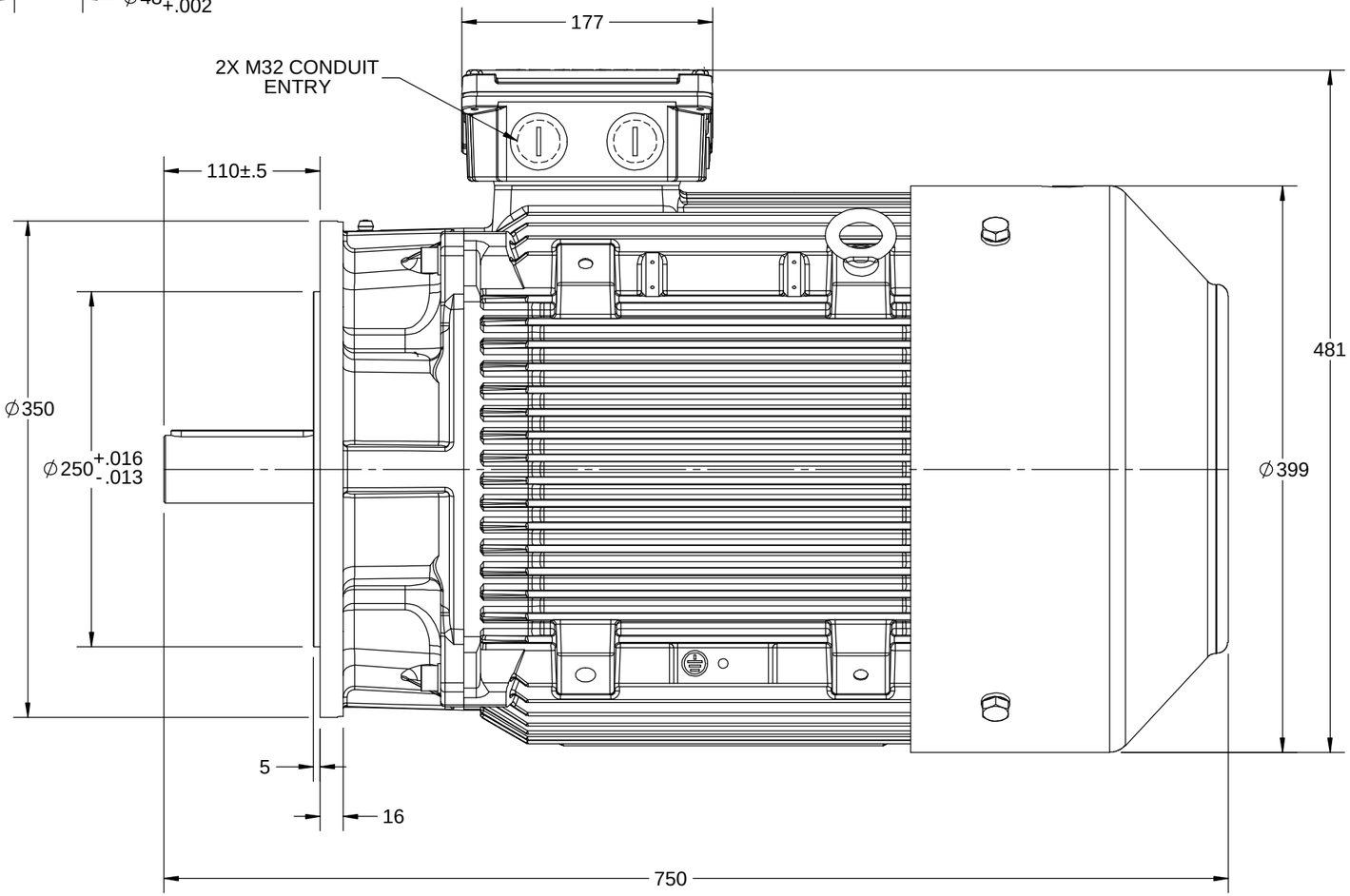
Connection Drawing	**8442000715**	Outline Drawing	**SS312998A**

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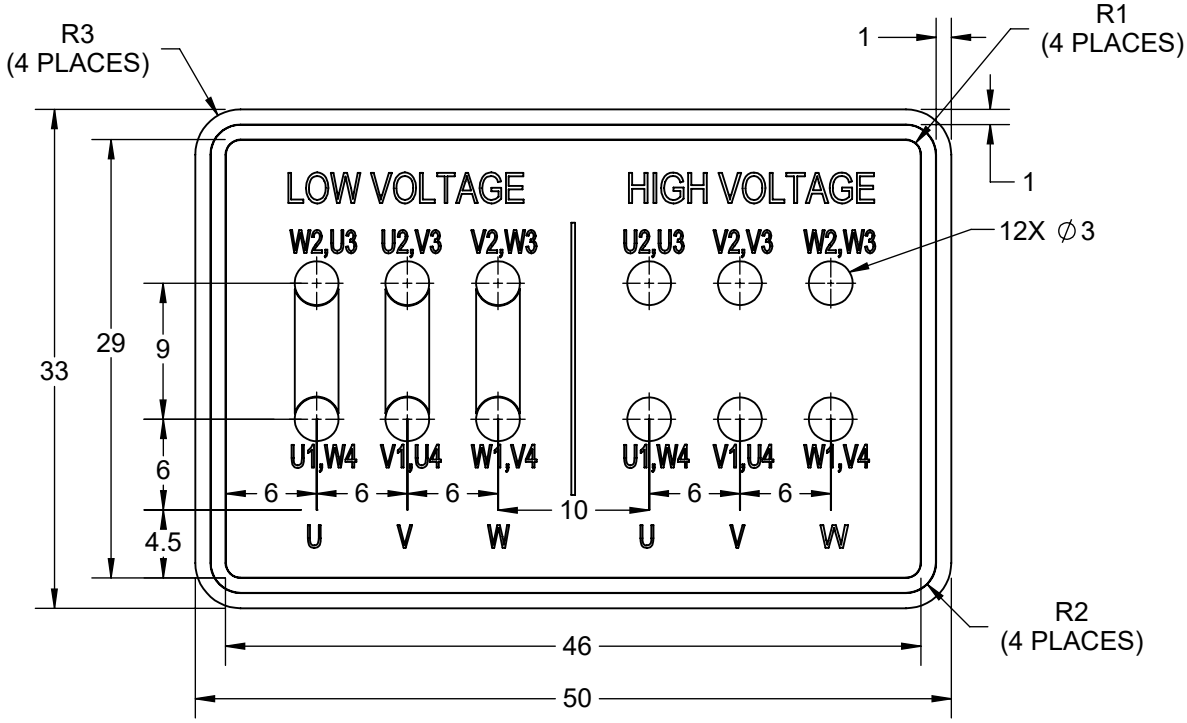
DRAWING REVISION B	REVISION BY LK	DATE 11/12/2018	DRAWN BY LK	marathon™ Motors
ECO ECO-0157171	APPROVED BY JAY	DATE 11/12/2018	DATE 10/12/2018	
ECO DESCRIPTION UPDATED TEMPLATE			APPROVED BY JAY	DESCRIPTION OUTLINE IEC-180L-B5 MOTOR TYPE: TEFC-CAST IRON
			DATE 10/12/2018	
			REFERENCE	MATERIAL / PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER SS312998A / SHEET 1 OF 1

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DRAWING REVISION	REVISION BY	REV DATE/© DATE
B	SB	08/01/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023654	SBD	08/01/2025
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 : T1-T12 & U1-U4,V1-V4& W1-W4 OF ARIAL WITH 3mm SIZE
5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

8WD.442.2017

PRIMARY DIMENSIONS ARE mm INCH DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: S.MUDDA DATE: 16/11/2020 APPROVED BY: SUMANTA DATE: 16/11/2020 REFERENCE	marathon™ DESCRIPTION: CONN DIAGRAM-NAMEPLATE MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: A	DRAWING NUMBER: 8442000715	SHEET: 1 OF 1