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General Purpose Motors

Model No: TCA0153AE231GAA009
Catalog No: R838

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: TCA0153AE231GAA009, Catalog No: R838 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**

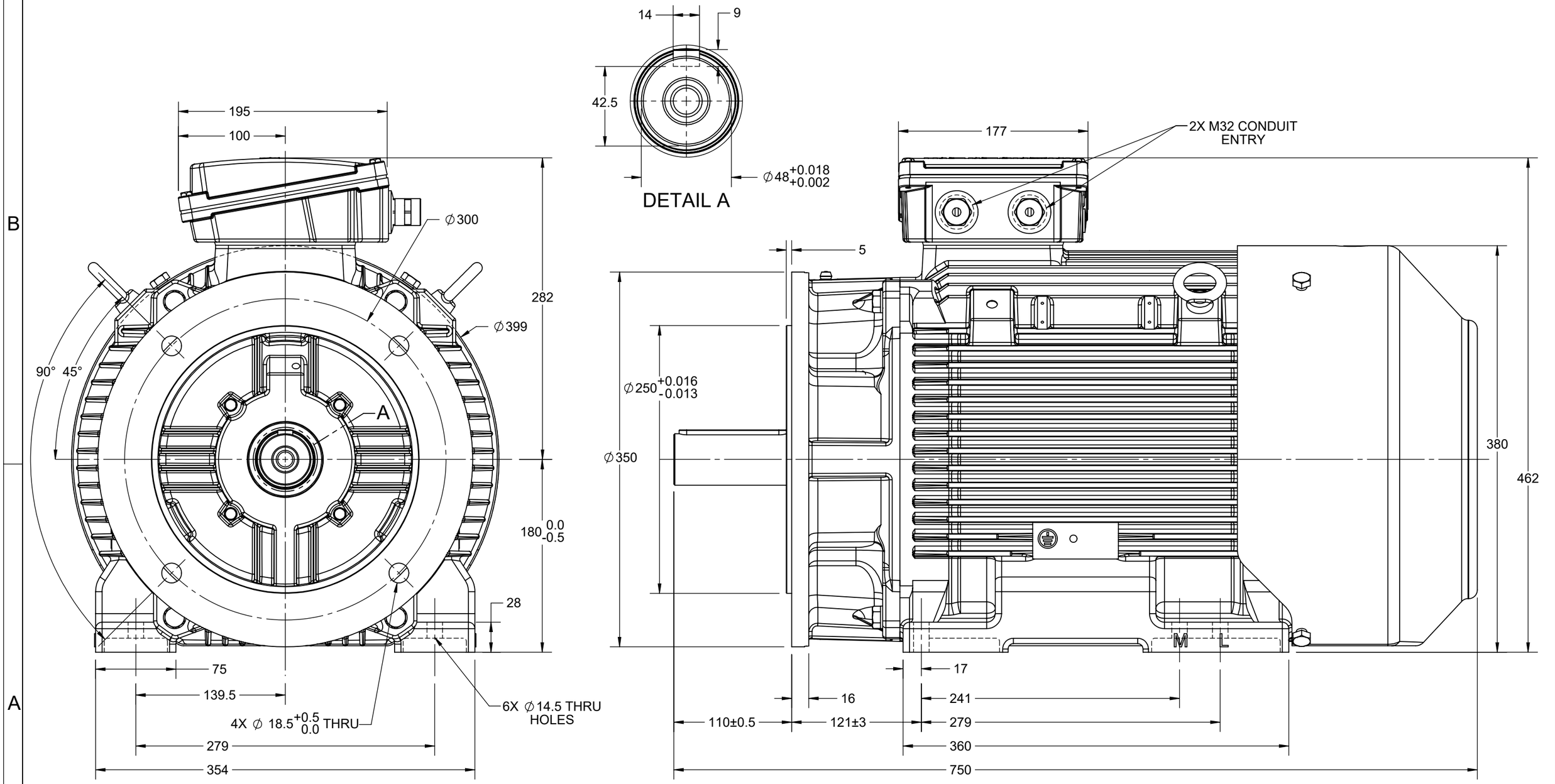
Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**.56 O**	Mounting	**B3**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	Shaft Diameter	**48 in**
Assembly/Box Mounting	**F3**	Inverter Load	**Constant 2:1/Variable 10:1**

Drawings

Connection Drawing	**8442000715**	Outline Drawing	**SS620879**

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DRAWING REVISION B	REVISION BY SB	REV DATE/© DATE 07/30/2025	PRIMARY DIMENSIONS ARE mm INCH DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY MSH
REQUEST NUMBER CR-0023600	APPROVED BY SBD	DATE 07/30/2025		DATE 25/01/2019
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY JAY
				DATE 25/01/2019
				REFERENCE
				THIRD ANGLE PROJECTION

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DESCRIPTION
OUTLINE
IEC-180L-B35, MOTOR TYPE: NA-TEFC-CAST IRON

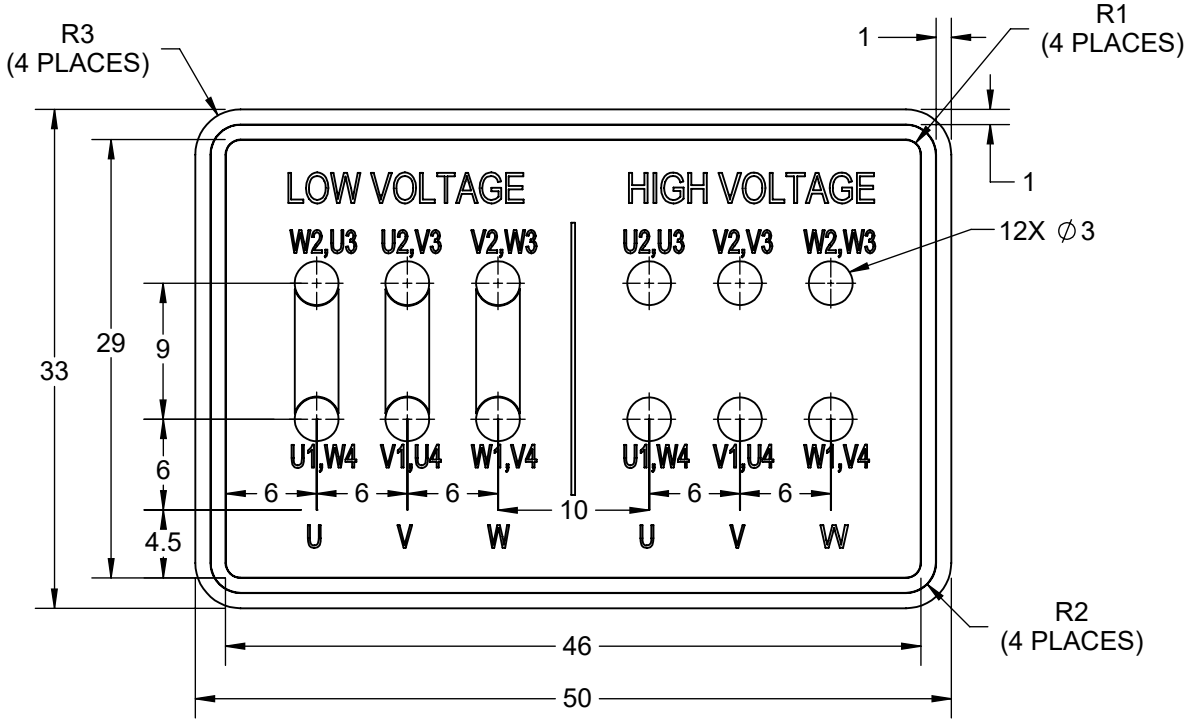
MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS620879	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