marathon®

General Purpose Motors

Model No: TCA0152AE271GAA009
Catalog No: R637

General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 RPM, 160M Frame, TEFC

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Product Information Packet: Model No: TCA0152AE271GAA009, Catalog No: R637 General Purpose Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 RPM, 160M 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	**1775 & 1480 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15**	Frame	**160M**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**93 & 91.4 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**54.1/27.0 & 45.6/22.8 A**
Power Factor	**81**	Duty	**Continuous**
Insulation Class	**F8**	Design Code	**N (IEC)**
KVA Code	**J**	Drive End Bearing Size	**6309**
Opp Drive End Bearing Size	**6209**	UL	**Recognized**
CSA	**N**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**

Technical Specifications

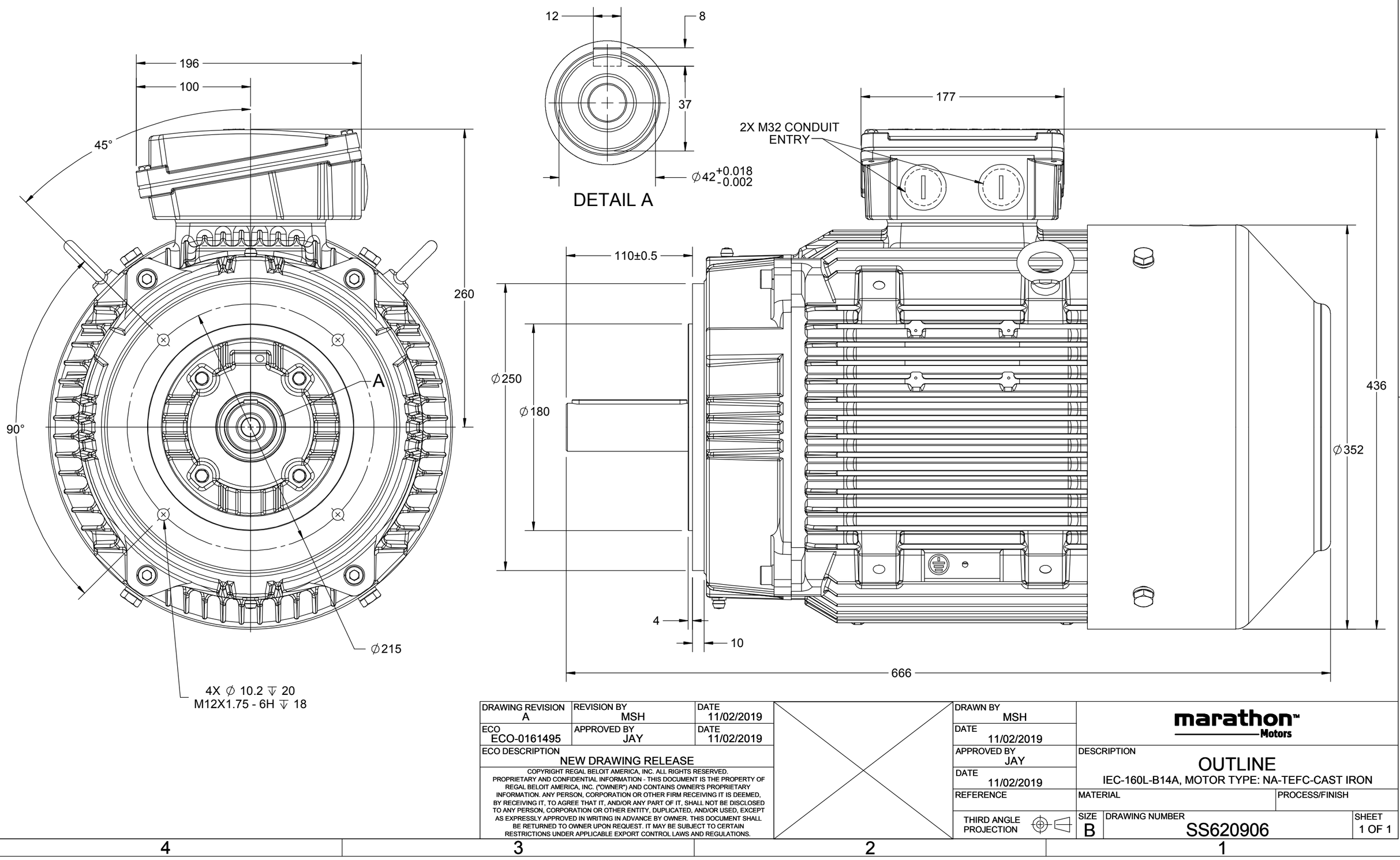
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.49 O**	Mounting	**Round**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	Overall Length	**26.22 in**
Frame Length	**11.732 in**	Shaft Diameter	**1.654 in**
Shaft Extension	**4.33 in**	Assembly/Box Mounting	**F3**
Inverter Load	**Constant 2:1/Variable 10:1**		

Drawings

Connection Drawing	**8442000715**	Outline Drawing	**SS620906**

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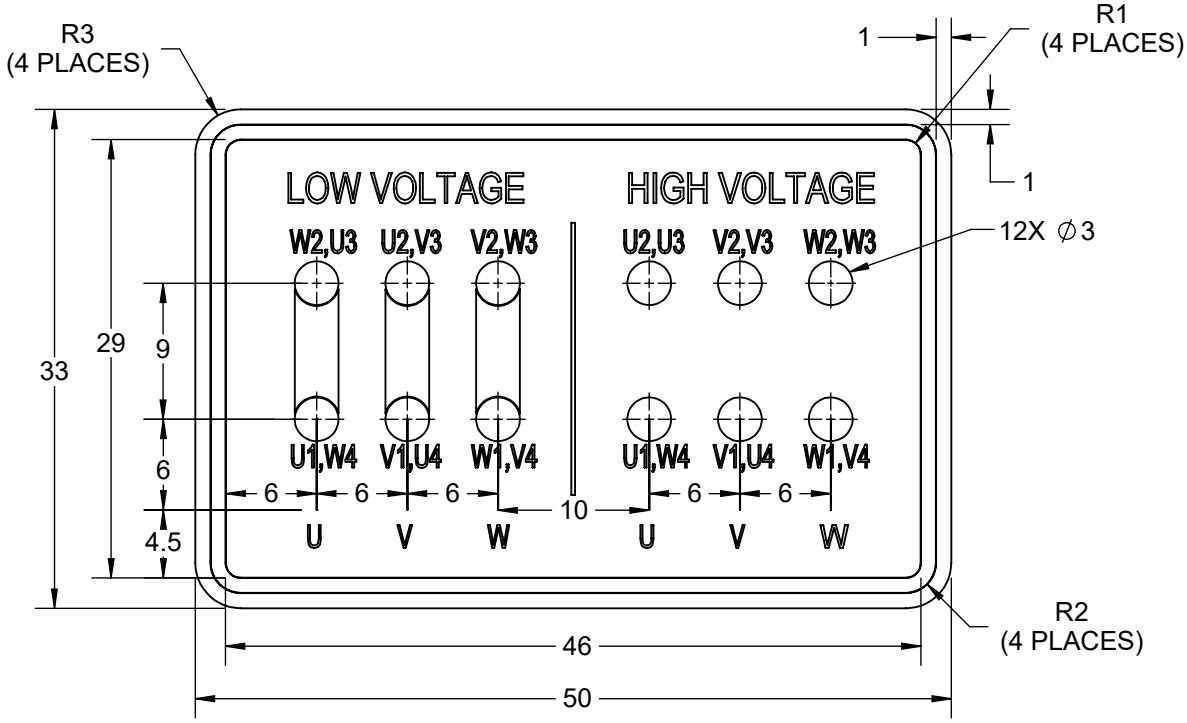
DRAWING REVISION A	REVISION BY MSH	DATE 11/02/2019	DRAWN BY MSH	marathon™ Motors
ECO ECO-0161495	APPROVED BY JAY	DATE 11/02/2019	DATE 11/02/2019	
ECO DESCRIPTION NEW DRAWING RELEASE			APPROVED BY JAY	DESCRIPTION OUTLINE IEC-160L-B14A, MOTOR TYPE: NA-TEFC-CAST IRON
			DATE 11/02/2019	
			REFERENCE	MATERIAL / PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER SS620906 / 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