marathon®

General Purpose Motors

Model No: TCA7P52AE271GAA009
Catalog No: R631

General Purpose Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 RPM, 132M Frame, TEFC

©2026 Marathon, All Rights Reserved.

marathon®

Product Information Packet: Model No: TCA7P52AE271GAA009, Catalog No: R631 General Purpose Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1800 RPM, 132M Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**10 & 7.50 Hp**
Output KW	**7.5 & 5.5 kW**	Voltage	**230/460 & 200/400 V**
Speed	**1775 & 1480 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**132M**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**91.7 & 89.6 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**27.8/13.9 & 24.9/12.4 A**
Power Factor	**81**	Duty	**Continuous**
Insulation Class	**F8**	Design Code	**N (IEC)**
KVA Code	**K**	Drive End Bearing Size	**6308**
Opp Drive End Bearing Size	**6208**	UL	**Recognized**
CSA	**N**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**

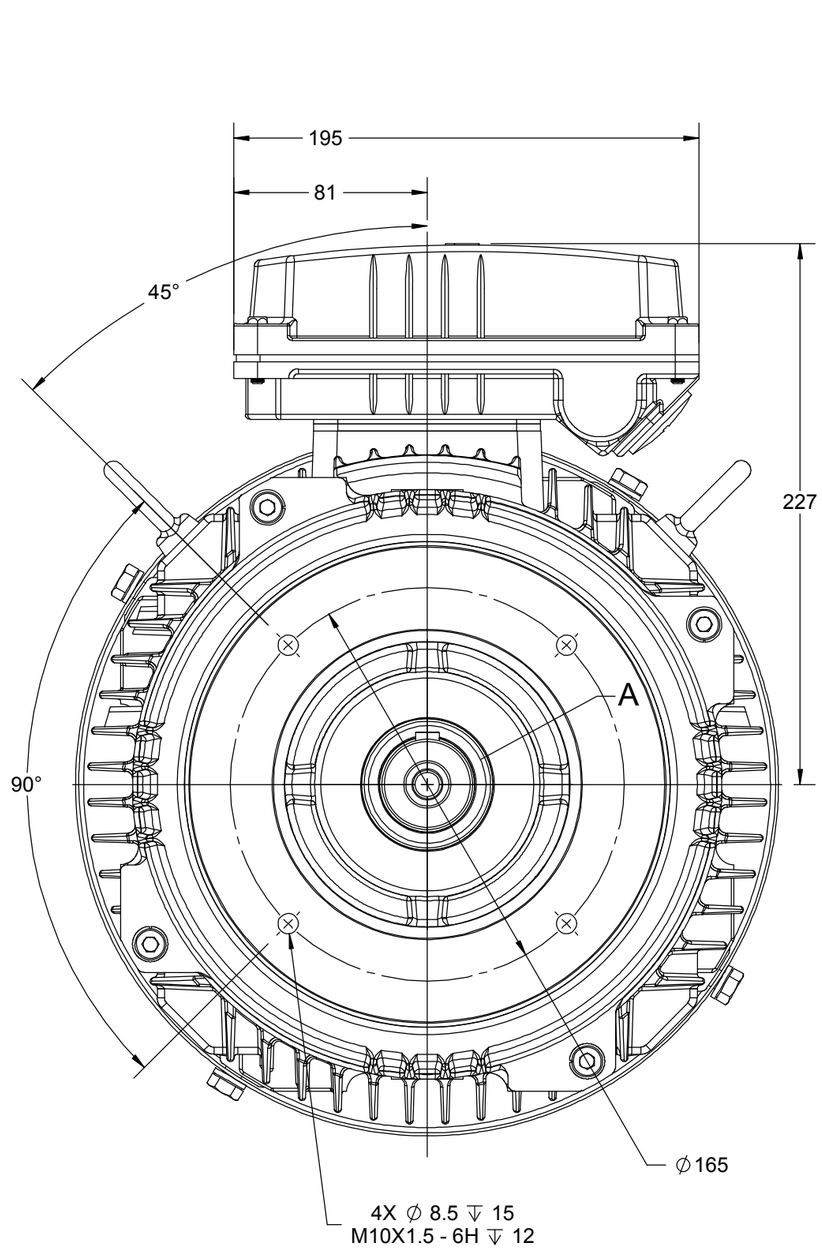
Technical Specifications

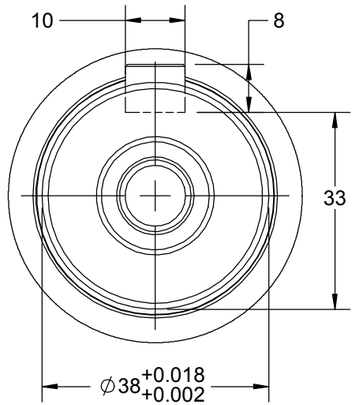
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**1.05 O**	Mounting	**Round**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	Overall Length	**19.8 in**
Frame Length	**9.449 in**	Shaft Diameter	**1.496 in**
Shaft Extension	**3.15 in**	Assembly/Box Mounting	**F3**
Inverter Load	**Constant 2:1/Variable 10:1**		

Drawings

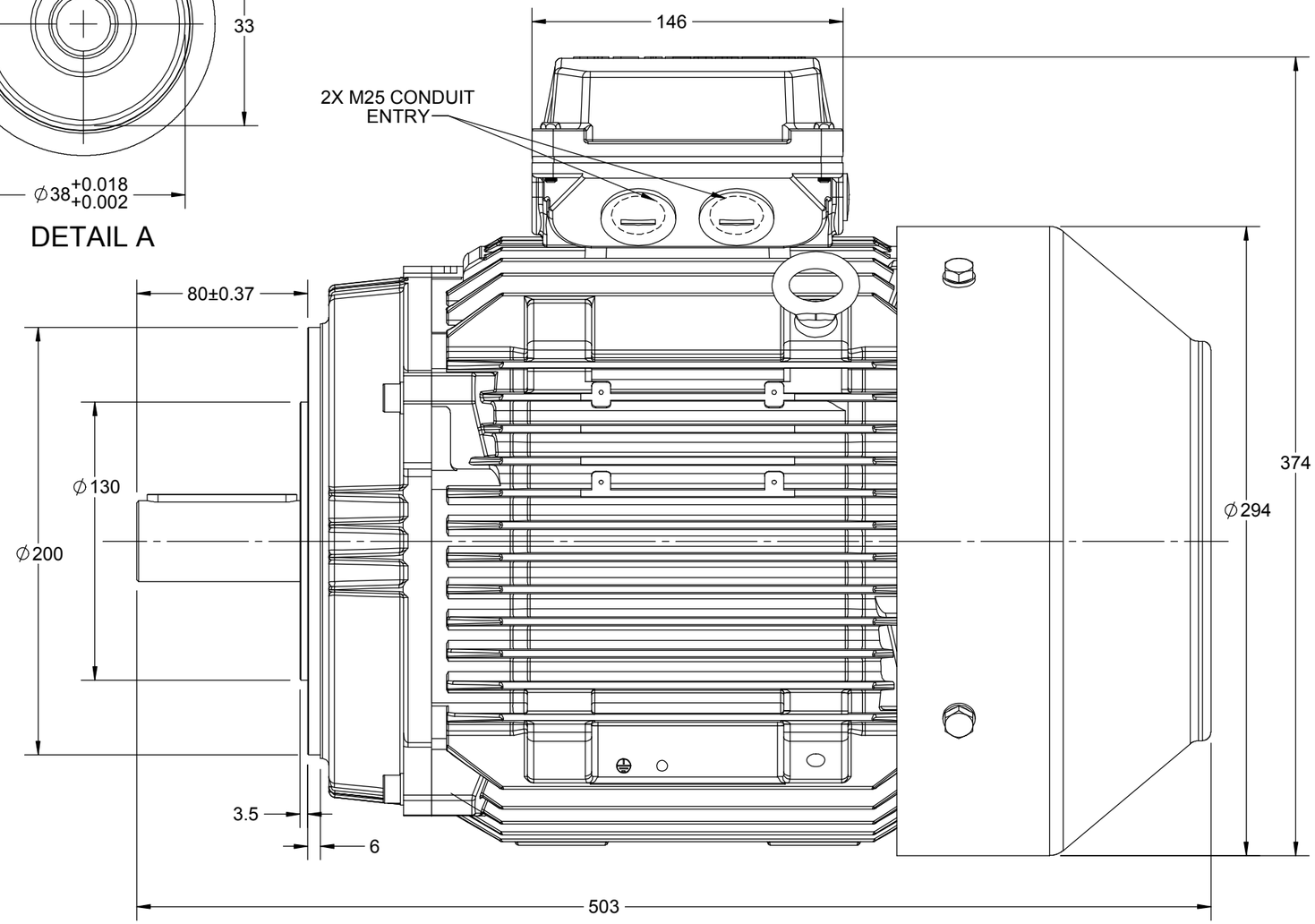
Connection Drawing	**8442000715**	Outline Drawing	**SS620902**

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 16/10/2026





DETAIL A



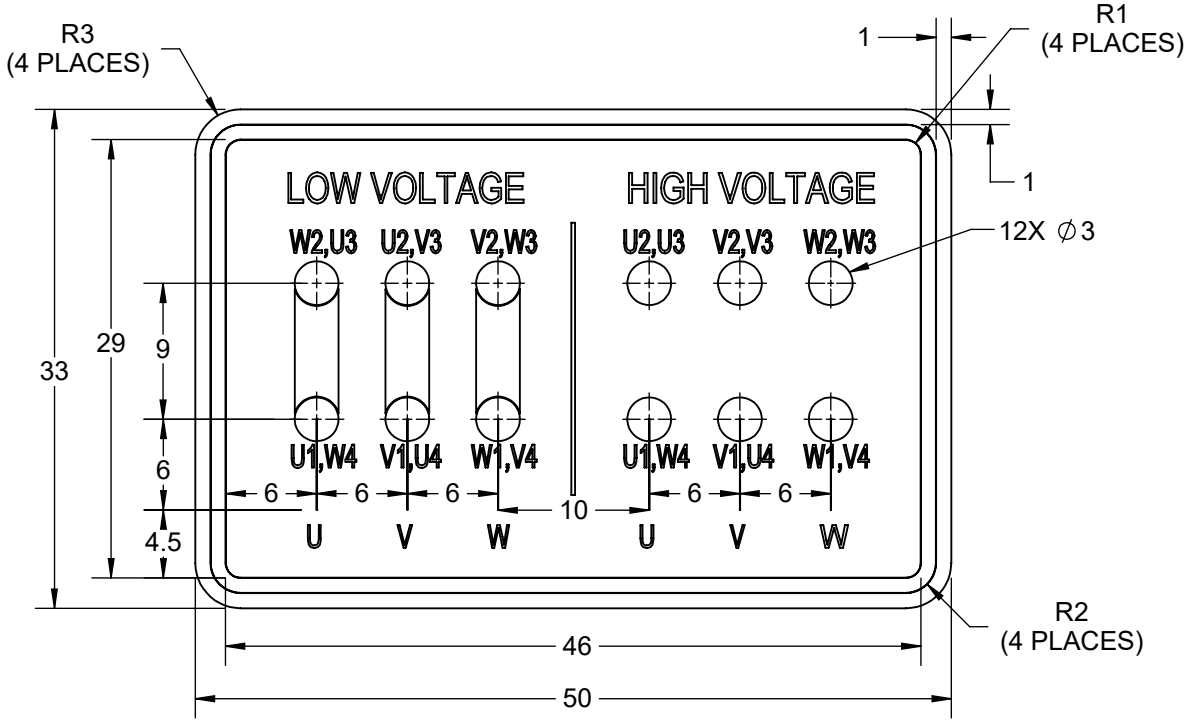
DRAWING REVISION A	REVISION BY MSH	DATE 11/02/2019		DRAWN BY MSH	marathon™ Motors
ECO ECO-0161495	APPROVED BY JAY	DATE 11/02/2019		DATE 11/02/2019	
ECO DESCRIPTION NEW DRAWING RELEASE				APPROVED BY JAY	DESCRIPTION OUTLINE
				DATE 11/02/2019	IEC-132M-B14A, MOTOR TYPE: NA-TEFC-CAST IRON
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER SS620902 / SHEET 1 OF 1

COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.
PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

COPYRIGHT (PER REVISION DATE) MARATHON ELECTRIC, LLC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF MARATHON ELECTRIC, LLC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

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