marathon®

General Purpose Motors

Model No: TCA0221AP211GAA009
Catalog No: R442

General Purpose Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 180M Frame, TEFC

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Product Information Packet: Model No: TCA0221AP211GAA009, Catalog No: R442 General Purpose Motor, 30 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 180M Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**30 Hp**
Output KW	**22.0 kW**	Voltage	**575 V**
Speed	**3550 r/min**	Synchronous RPM	**3600 r/min**
Service Factor	**1.15**	Frame	**180M**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**91.7 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**30.0 A**
Power Factor	**88**	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**

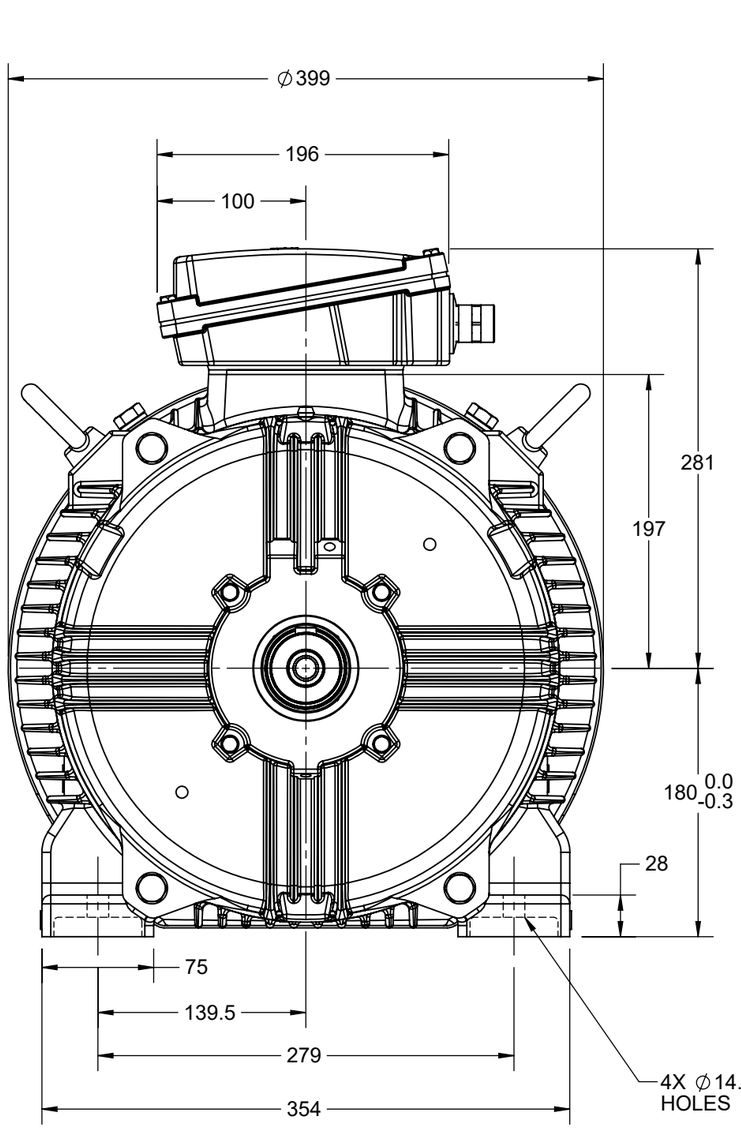
Technical Specifications

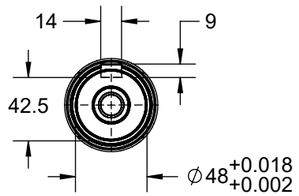
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.37 O**	Mounting	**B3**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	Overall Length	**28.03 in**
Frame Length	**12.913 in**	Shaft Diameter	**1.890 in**
Shaft Extension	**4.33 in**	Assembly/Box Mounting	**F3**
Inverter Load	**Constant 2:1/Variable 10:1**		

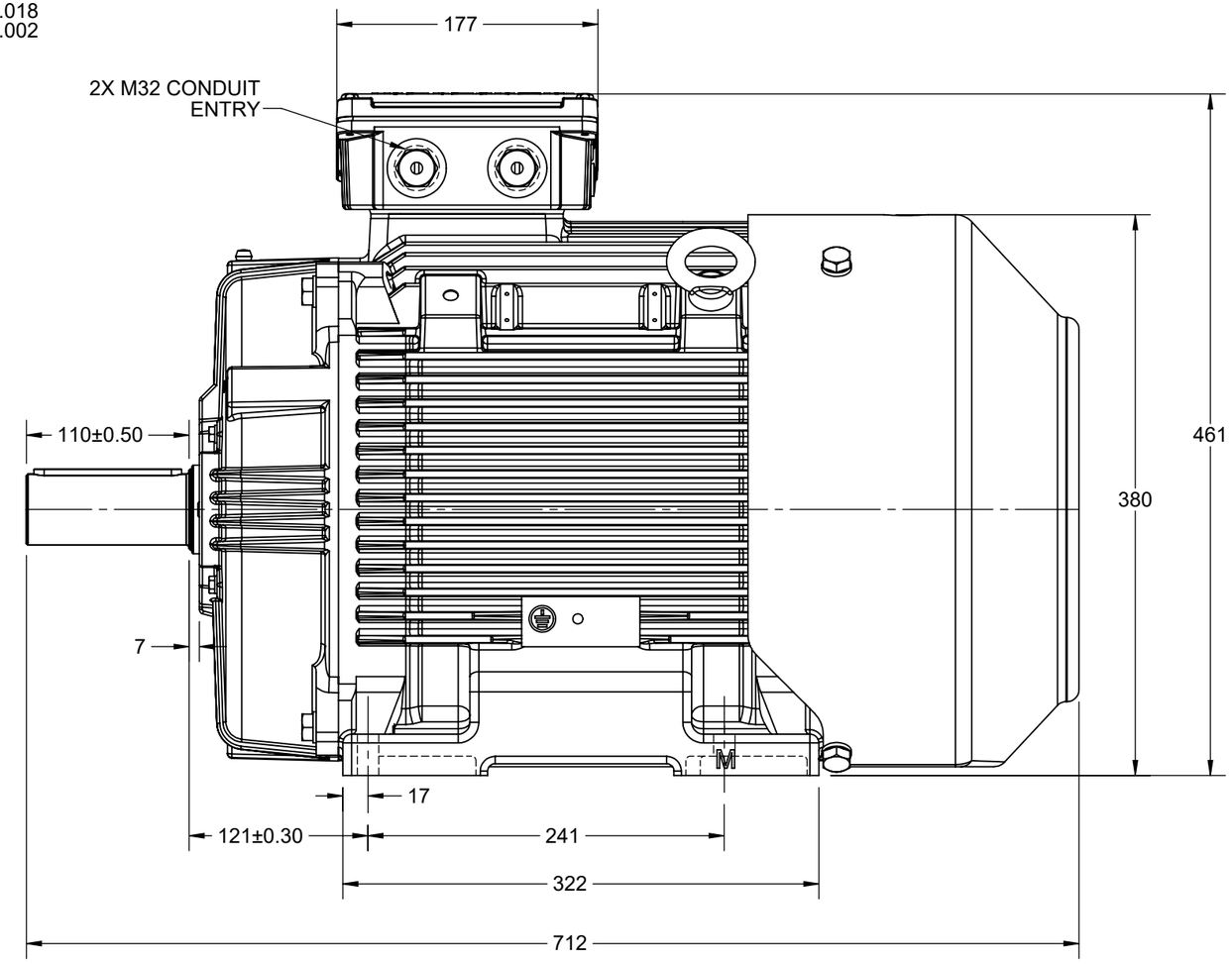
Drawings

Connection Drawing	**8442000685**	Outline Drawing	**SS312997**

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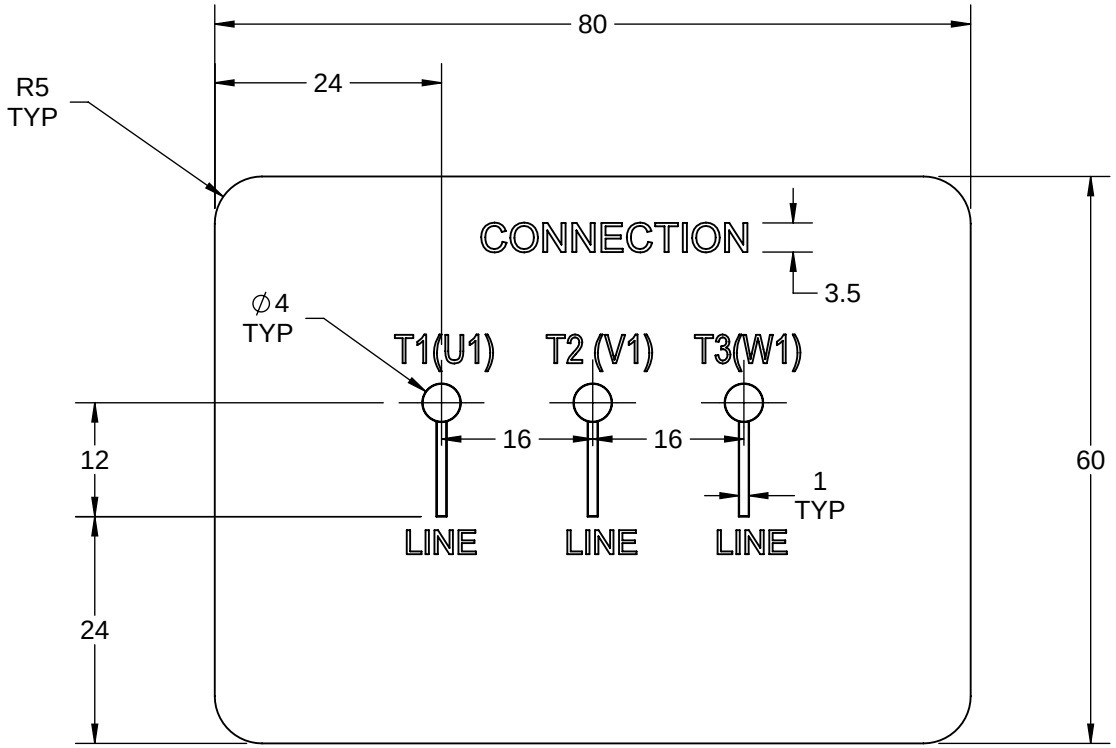
DRAWING REVISION: B	REVISION BY: SB	REV DATE/© DATE: 08/01/2025
REQUEST NUMBER: CR-0023600	APPROVED BY: SBD	DATE: 08/01/2025
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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DRAWN BY: LK	marathon™
DATE: 05/12/2018	
APPROVED BY: JAY	DESCRIPTION: OUTLINE
DATE: 05/12/2018	IEC-180M-B3 MOTOR TYPE: TEFC-CAST IRON
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: SS312997 / SHEET: 1 OF 1

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



NOTES:

1. PRESSURE-SENSITIVE ADHESIVE TAPE COATED WITH ANTI-ADHESIVE.
2. YELLOW COLOR BACK GROUND LETTERS WILL BE BLACK.
3. DIMENSIONS WITHOUT INDICATED TOLERANCES SHALL CONFORM TO THE GENERAL TOLERANCE TABLE
4. LEAD TERMINAL MARKINGS FONT SIZE : T1-T2 - T3 & U1-V1-W1 OF ARIAL WITH 3mm SIZE
5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

DRAWING REVISION	REVISION BY	REV DATE/© DATE
B	SB	06/03/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0026504	RMS	06/03/2026

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DRAWN BY	A. KEETHA
DATE	24/07/2019
APPROVED BY	SN
DATE	24/07/2019
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION
CONNECTION DIAGRAM
3 LEAD CONNECTION

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	8442000685	1 OF 1