marathon®

General Purpose Motors

Model No: TCA0553AE231GAA009
Catalog No: R859

General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 RPM, 280M Frame, TEFC

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Product Information Packet: Model No: TCA0553AE231GAA009, Catalog No: R859 General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 1200 RPM, 280M Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**75 & 60 Hp**
Output KW	**55.0 & 45.0 kW**	Voltage	**230/460 & 200/400 V**
Speed	**1190 & 990 r/min**	Synchronous RPM	**1200 & 1000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**280M**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**94.5 & 93.7 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**193/96.5 & 180.5/90.2 A**
Power Factor	**84**	Duty	**Continuous**
Insulation Class	**F8**	Design Code	**N (IEC)**
KVA Code	**G**	Drive End Bearing Size	**6317**
Opp Drive End Bearing Size	**6317**	UL	**Recognized**
CSA	**N**	CE	**Y**
IP Code	**55**	Number of Speeds	**1**

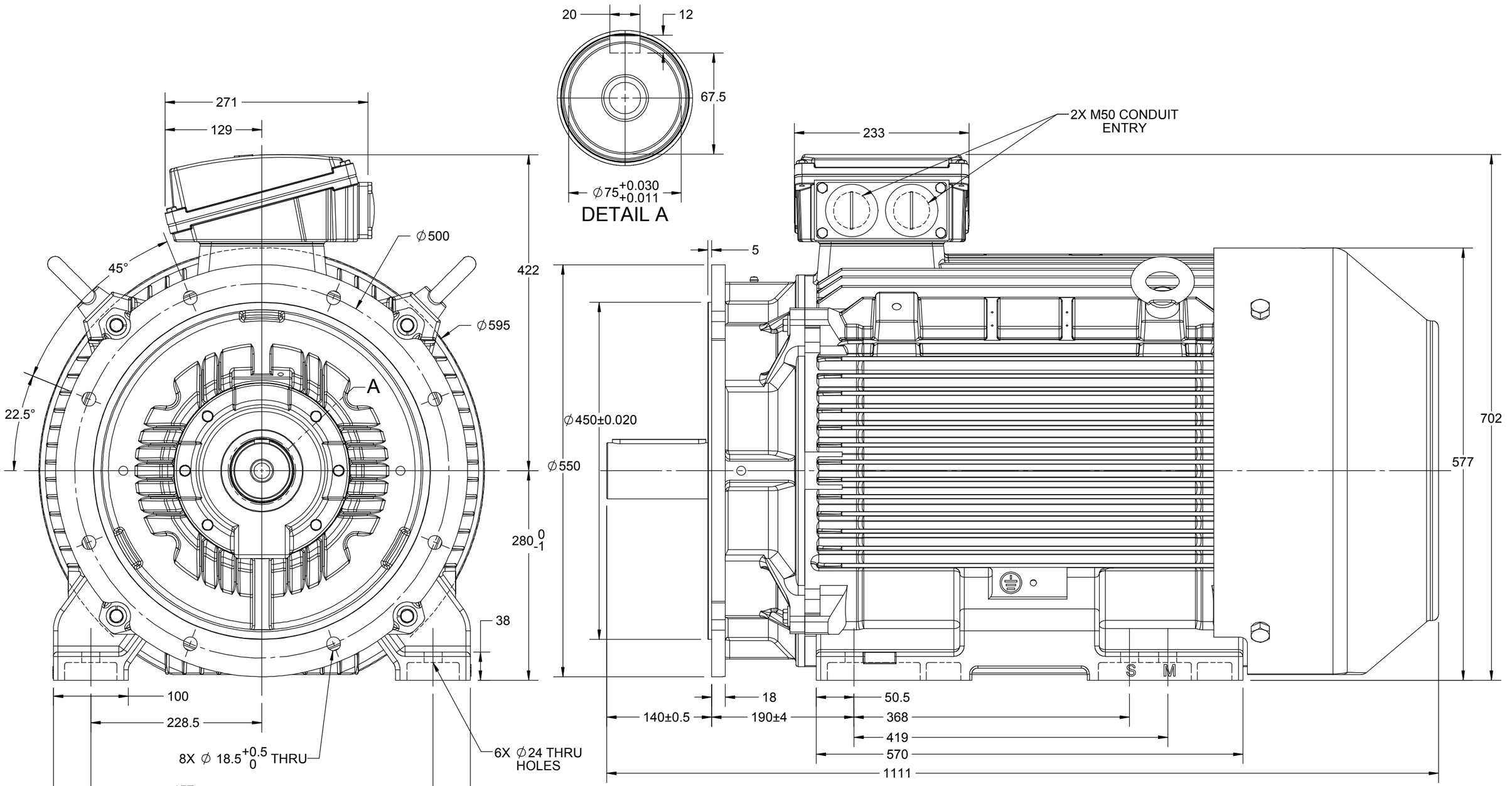
Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**.07 O**	Mounting	**B3**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**IEC**	Shaft Diameter	**75 in**
Assembly/Box Mounting	**F3**	Inverter Load	**Constant 2:1/Variable 10:1**

Drawings

Connection Drawing	**8442000677**	Outline Drawing	**SS620889**

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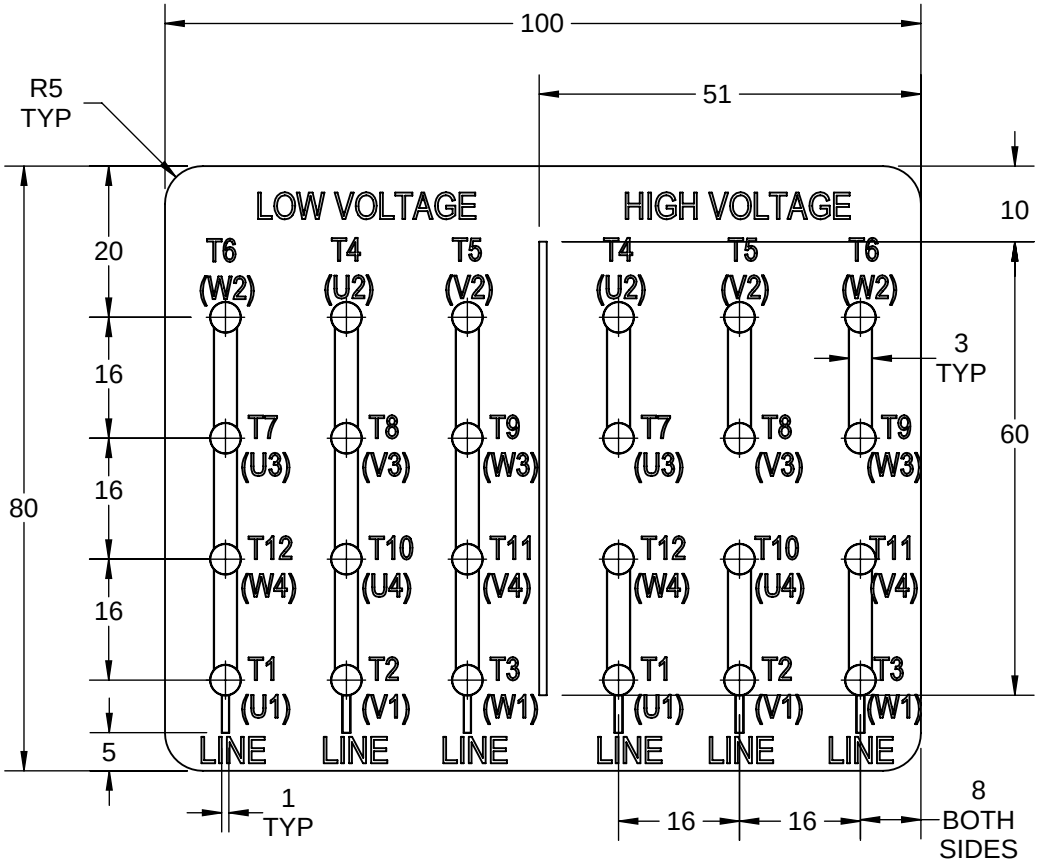


DRAWING REVISION A	REVISION BY MSH	DATE 25/01/2019	
ECO ECO-0160263	APPROVED BY JAY	DATE 25/01/2019	
ECO DESCRIPTION NEW DRAWING RELEASE			

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DRAWN BY MSH	marathon™ Motors		
DATE 25/01/2019			
APPROVED BY JAY	DESCRIPTION OUTLINE		
DATE 25/01/2019	IEC-280M-4P-B35, MOTOR TYPE: NA-TEFC-CAST IRON		
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS620889	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. 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.

DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	SV	05/11/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0026249	RMS	05/11/2026

REQUEST NUMBER DESCRIPTION
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PRIMARY DIMENSIONS ARE mm
INCH DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY	DATE	APPROVED BY	DATE	REFERENCE
NIV	29/01/2019	JAY	29/01/2019	

THIRD ANGLE PROJECTION

marathon™

DESCRIPTION
CONNECTION DIAGRAM
12 LEAD -DELTA CONNECTION

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	8442000677	1 OF 1