

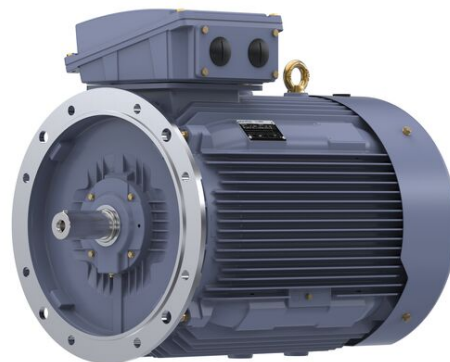
PRODUCT INFORMATION PACKET

marathon®

Model No: TCA0554A3121GACD01

Catalog No: TCA0554A3121GACD01

TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 415 V, 315S Frame





Nameplate Specifications

Phase	3	Output HP	75 Hp
Output KW	55.0 kW	Voltage	415 V
Speed	742 r/min	Service Factor	1
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	92.5 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	113.3 A	Power Factor	0.73
Duty	S1	Insulation Class	F
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1206 mm	Frame Length	729 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Top		
Connection Drawing	8442000085	Outline Drawing	0231500892

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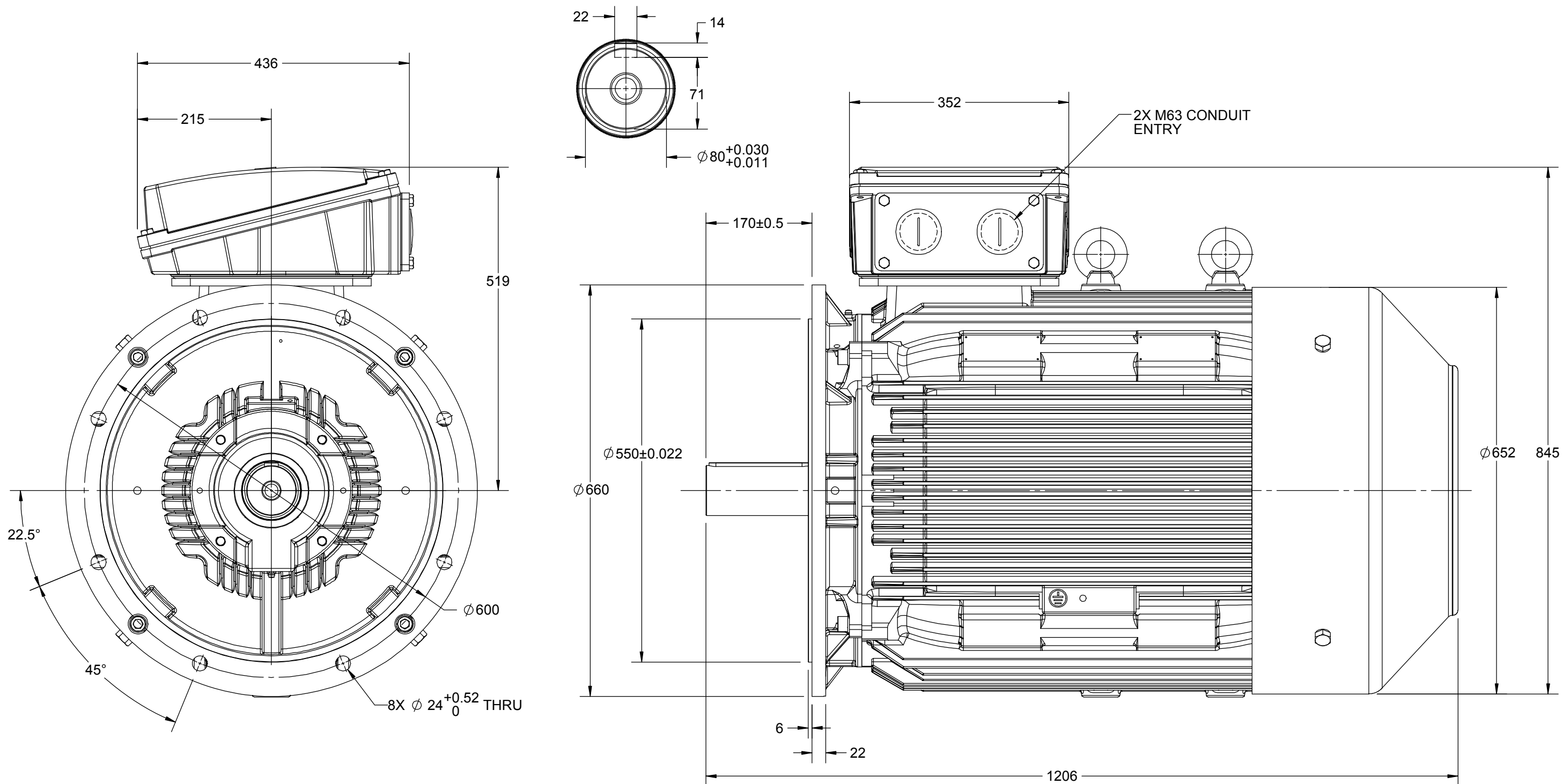
OUTLINE

B

B

A

A



DRAWING REVISION B	REVISION BY NIV	DATE 14/05/2019		DRAWN BY JOY	<div>marathon™ Motors</div>			
ECO ECO-0165600	APPROVED BY SR	DATE 14/05/2019		DATE 18/07/2014				
ECO DESCRIPTION				APPROVED BY SBD	DESCRIPTION			
MODEL UPDATED				DATE 18/07/2014	OUTLINE			
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				THIRD ANGLE PROJECTION		SIZE B	DRAWING NUMBER 0231500892	

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ECO DESCRIPTION

GEOMETRIC TOLERANCE

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



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.

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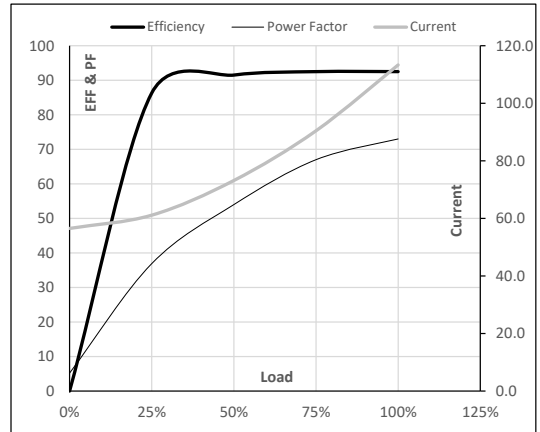
	DRAWN BY SN	 Regal Beloit America, Inc.		
	DATE 16/12/2016			
	APPROVED BY SBD	DESCRIPTION CONN DIAGRAM-NAMEPLATE		
	DATE 16/12/2016			
	REFERENCE	MATERIAL		PROCESS/FINISH
	THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER 8442000085	

Model No. TCA0554A3121GACD01

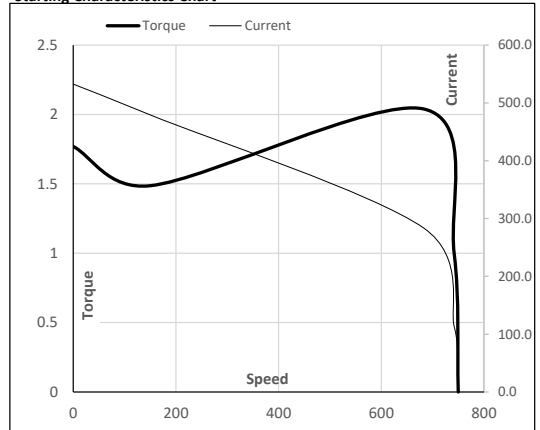
Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	415	Δ	50	55	75.0	113.3	742	73.42	720.05	IE3	50	S1	1000	3.7895	892

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	56.5	61.1	73.2	90.4	113.3	
Torque	Nm	0.0	178.7	358.1	538.5	720.0	
Speed	r/min	750	748	746	745	742	
Efficiency	%	0.0	86.3	91.5	92.5	92.5	
Power Factor	%	5.2	36.9	54.0	67.0	73.0	

Performance vs Load Chart

Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	150	683	742	750
Current	A	532.6	479.3	283.7	113.3	56.5
Torque	pu	1.8	1.5	2.0	1	0

Starting Characteristics Chart

NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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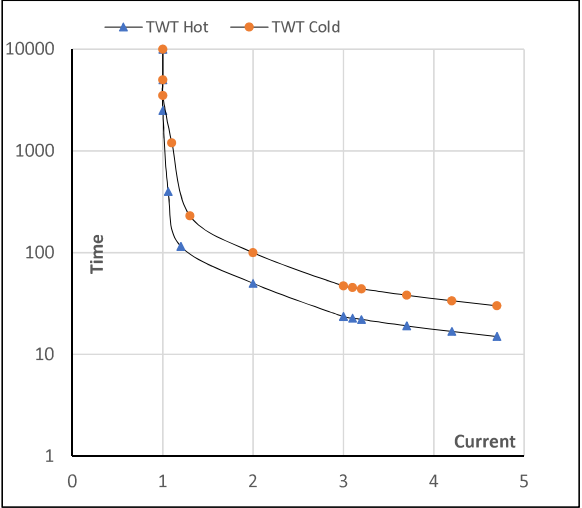
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [rpm]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg·m ²]	Weight [kg]
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Motor Speed Torque Data

Load	FL	I ₁	I ₂	I ₃	I ₄	I ₅	LR
TWT Hot	s 10000	50	24	21	18	16	15
TWT Cold	s 10000	100	47	42	37	31	30
Current	pu 1	2	3	3.5	4	4.5	4.7

Thermal Characteristics Chart



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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