

# PRODUCT INFORMATION PACKET



Model No: TCA0452A3113GACD01

Catalog No: TCA0452A3113GACD01

TerraMAX® Cast Iron Motor, 60 HP, 3 Ph, 50 Hz, 415 V, 225M Frame





### Nameplate Specifications

Phase	3	Output HP	60 Hp
Output KW	45.0 kW	Voltage	415 V
Speed	1484 r/min	Service Factor	1
Frame	225M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.2 %
Ambient Temperature	50 °C	Frequency	50 Hz
Current	77.3 A	Power Factor	0.86
Duty	S1	Insulation Class	F
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213
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	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	862 mm	Frame Length	425 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0222500783

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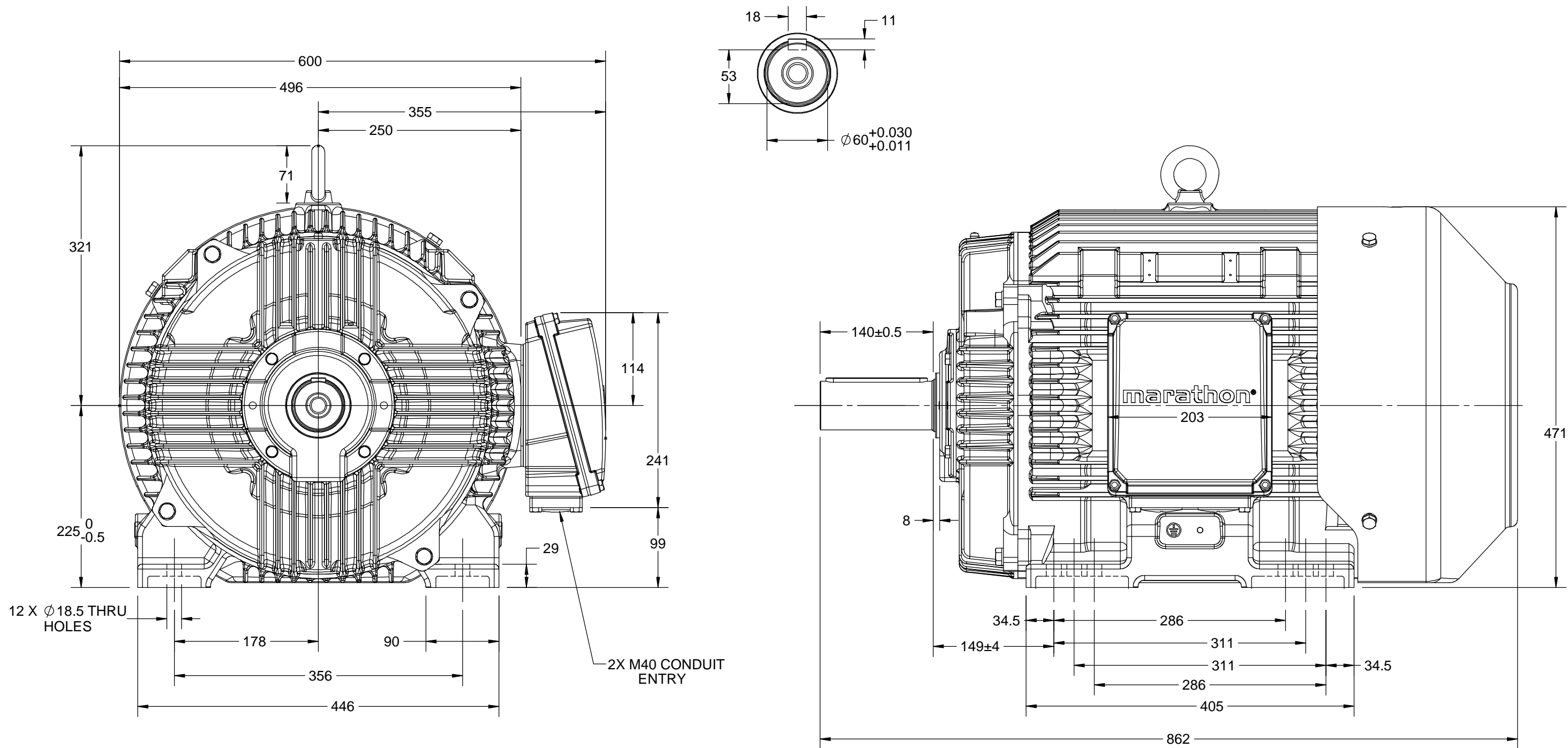
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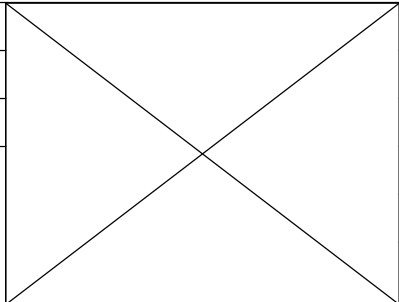
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
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DRAWING REVISION B	REVISION BY VS	DATE 09/08/2018
ECO ECO-0148344	APPROVED BY SBD	DATE 09/08/2018
ECO DESCRIPTION MODEL UPDATED		
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DRAWN BY UDAY	 Regal Beloit America, Inc.	
DATE 16/08/2016		
APPROVED BY SBD	DESCRIPTION OUTLINE	
DATE 16/08/2016	225M FR-4~8P-B3MTG TYPE:TCA/QCA RHS TB	
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION 	SIZE B	DRAWING NUMBER 0222500783
		SHEET 1 OF 1

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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.

8WD.442.2017

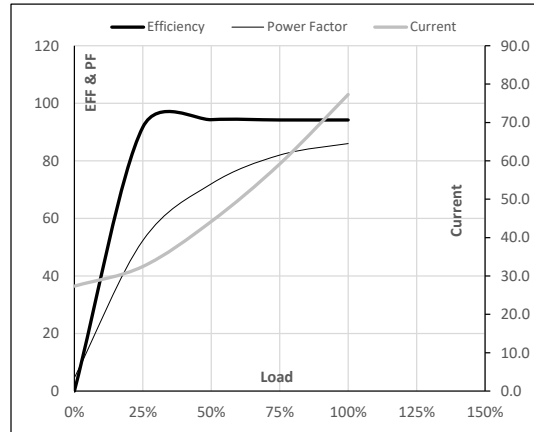
	DRAWN BY SN		 <b>Regal</b> Beloit America, Inc.	
	DATE 16/12/2016			
	APPROVED BY SBD		DESCRIPTION <b>CONN DIAGRAM-NAMEPLATE</b>	
	DATE 16/12/2016			
	REFERENCE		MATERIAL	PROCESS/FINISH
	THIRD ANGLE PROJECTION 	SIZE <b>A</b>	DRAWING NUMBER <b>8442000085</b>	SHEET 1 OF 1

**Model No.** TCA0452A3113GACD01

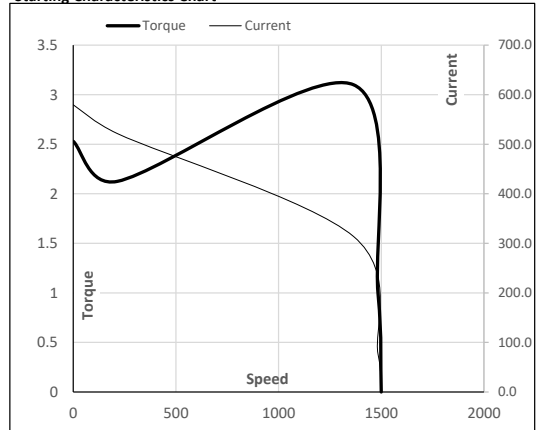
Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m <sup>2</sup> ]	Weight [kg]
TEFC	415	Δ	50	45	60.0	77.3	1484	29.37	287.98	IE3	50	S1	1000	0.7712	411

**Motor Load Data**

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	27.3	32.5	44.2	59.2	77.3	
Torque	Nm	0.0	71.4	143.2	215.4	288.0	
Speed	r/min	1500	1496	1492	1488	1484	
Efficiency	%	0.0	91.7	94.3	94.2	94.2	
Power Factor	%	4.6	52.3	72.0	82.0	86.0	

**Performance vs Load Chart**

**Motor Speed Torque Data**

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	214	1365	1484	1500
Current	A	579.6	521.6	313.8	77.3	27.3
Torque	pu	2.5	2.1	3.1	1	0

**Starting Characteristics Chart**

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

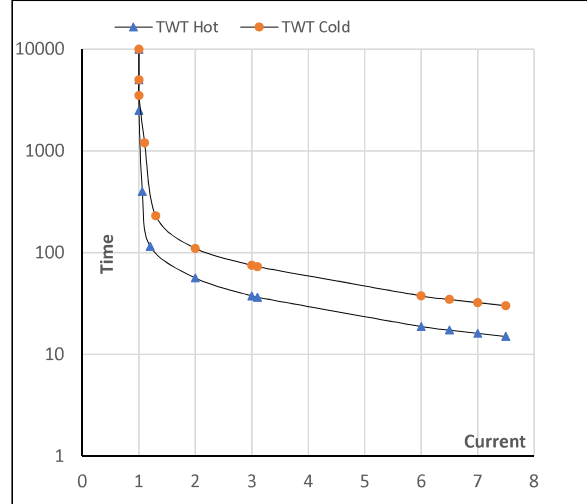
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**Motor Speed Torque Data**

Load	FL	$I_1$	$I_2$	$I_3$	$I_4$	$I_5$	LR
TWT Hot	s 10000	56	38	35	30	25	15
TWT Cold	s 10000	110	75	70	50	40	30
Current	pu 1	2	3	4	5	5.5	7.5

**Thermal Characteristics Chart**

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

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