## **PRODUCT INFORMATION PACKET**

Model No: TCA0043A1113GAC010 Catalog No: TCA0043A1113GAC010 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132M Frame, TEFC



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## marathon®



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## marathon®

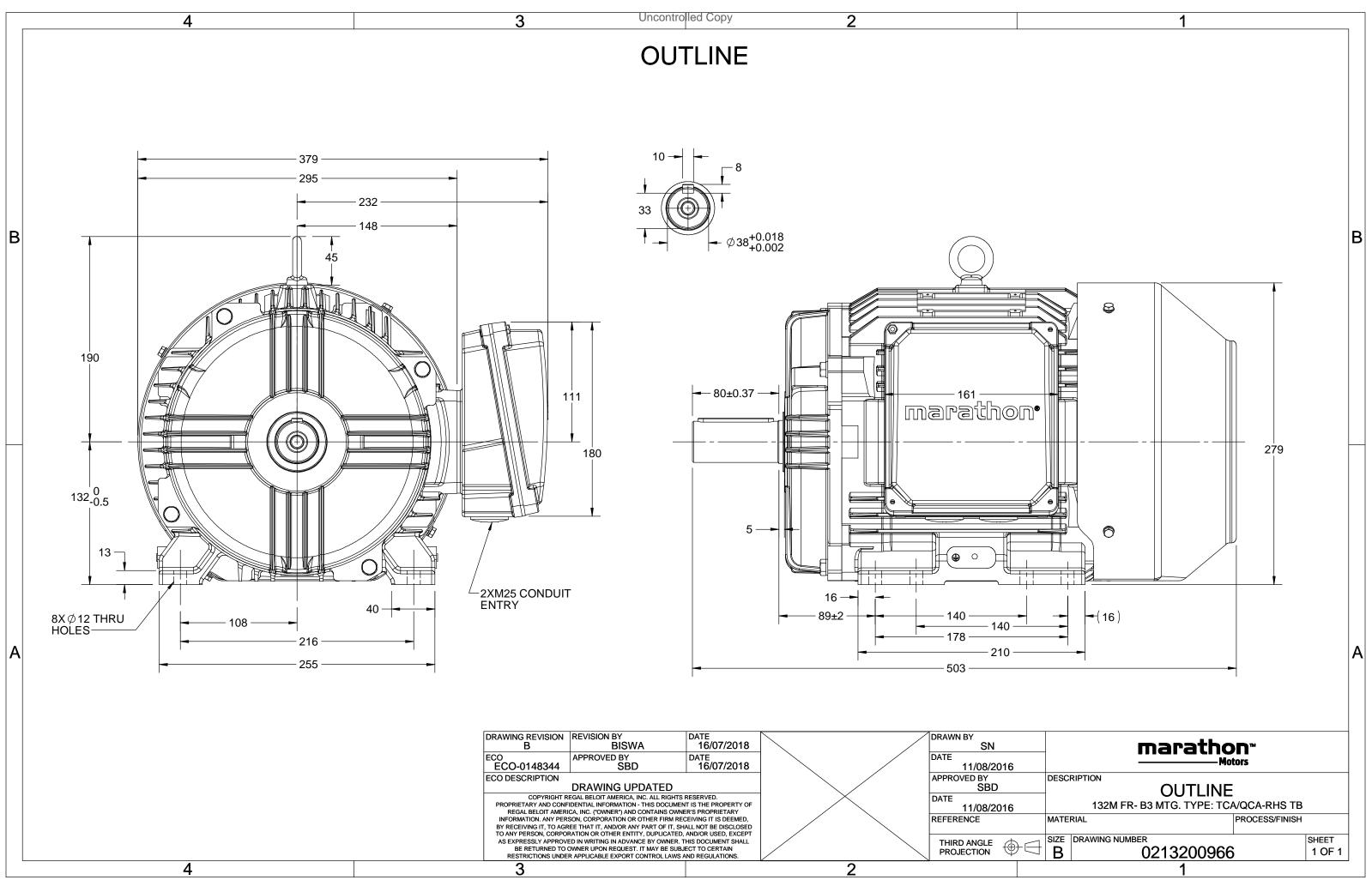
## Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	400 V
Current	9.0 A	Speed	973 rpm
Service Factor	1	Phase	3
Efficiency	86.8 %	Power Factor	0.74
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
UL	No	CSA	Νο
CE	Yes	IP Code	55
Efficiency Class	IE3		

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0213200966

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# **TerraMAX**<sup>®</sup>

#### Model No. TCA0043A1113GAC010

U	$\Delta / Y$	f	Р	Р	Ι	n	Т	IE		% EFF a	t load	ł	PF	at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	Δ	50	4	5.5	9.0	973	40.34	IE3	-	86.8	86.8	85.9	0.74	0.65	0.5	5.6	2.1	2.6
Motor	huno		Į		ТСА			1	Do	groo of	protecti	on.	ļ			IP 55		
Enclosu	<i>'</i> ·				TEFC					ounting		on				IM B3		
	Materia				Cast Ire					oling me						IC 411		
Frame		1			132N					•	ght - ap	arov				74		kg
Duty	5120				1321V S1						ht - app					77		rs kg
Voltage	variatio	n *			± 10%	6				tor iner		107.				0.0494		kgm²
Freque					± 5%					ad inerti					Cust	omer to Prov	vide	Kgill
Combin	•				10%					ration l					Guot	1.6		mm/s
Design					N							er dista	nce fror	n motor	-)	59		dB(A)
Service	factor				1.0						ts hot/c				,	2/3/4		0.2(7.1)
Insulati					F					rting m	-	010/290	any op.	cuu		DOL		
Ambier					-20 to +	40		°C		be of co						Direct		
			resistand	e)	80 [ Clas	s B ]		K			nd time	(hot/co	ld)			15/30		s
Altitude		• • •		-,	1000	-		meter			of rotatio	· ·	- /		В	si-directional		
Hazard	ous area	a classif	fication		NA				Sta	ndard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	s							
	Temper	rature o	class		NA					Aco	essory -	1				PTC 150°C		
Rotor ty	ype			Alu	ıminum [	Die cast				Aco	essory -	2				-		
Bearing	g type			А	nti-frictic	n ball				Aco	essory -	3				-		
DE / NC	DE beari	ng		630	8-2Z / 6	6208-2Z			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	reased fo	or life			Ma	iximum	cable si	ze/cond	luit size	1R	x 3C x 3	16mm²/2 x N	Л25 x 1.5	
Type of	grease				NA				Au	xiliary te	erminal	box				NA		

 $I_{\text{A}}/I_{\text{N}}$  - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$  - Breakdown Torque / Rated Torque

 $\rm T_A/\rm T_N$  - Locked Rotor Torque / Rated Torque

### NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

\* Voltage, Frequency and combine variation are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values. Aus/Nz Brazil India Efficiency China Furone

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30



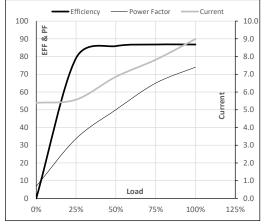


Model No. TCA0043A1113GAC010

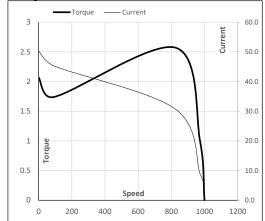
			Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(V)	) Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC 400	Δ 0	50	4	5.5	9.0	973	4.11	40.34	IE3	40	S1	1000	0.0494	74

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	5.4	5.6	6.9	7.8	9.0	
Torque	Nm	0.0	9.9	19.9	30.0	40.3	
Speed	r/min	1000	994	987	980	973	
Efficiency	%	0.0	79.1	85.9	86.8	86.8	
Power Factor	%	6.8	33.7	50.0	65.0	74.0	

### Performance vs Load Chart



### Starting Characteristics Chart



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

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Motor Speed Torque Data

r/min

А

pu

LR

0

50.3

2.1

P-Up

91

45.3

1.7

BD

826

30.7

2.6

Rated

973

9.0

1

NL

1000

5.4

0

Load Point

Speed

Current Torque

REGAL





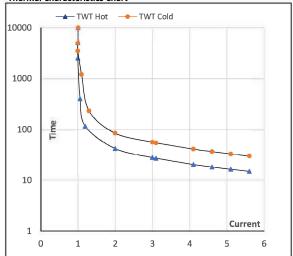
Model No. TCA0043A1113GAC010

Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
_	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	4	5.5	9.0	973	4.11	40.34	IE3	40	S1	1000	0.0494	74

## Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	I <sub>4</sub>	1 <sub>5</sub>	LR
TWT Hot	s	10000	42	28	21	19	17	15
TWT Cold	s	10000	84	56	42	38	34	30
Current	pu	1	2	3	4	4.5	5	5.6

Thermal Characteristics Chart



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

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