## **PRODUCT INFORMATION PACKET**

Model No: TCA1P11A1113GAC010 Catalog No: TCA1P11A1113GAC010 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 80M Frame, TEFC



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## marathon®

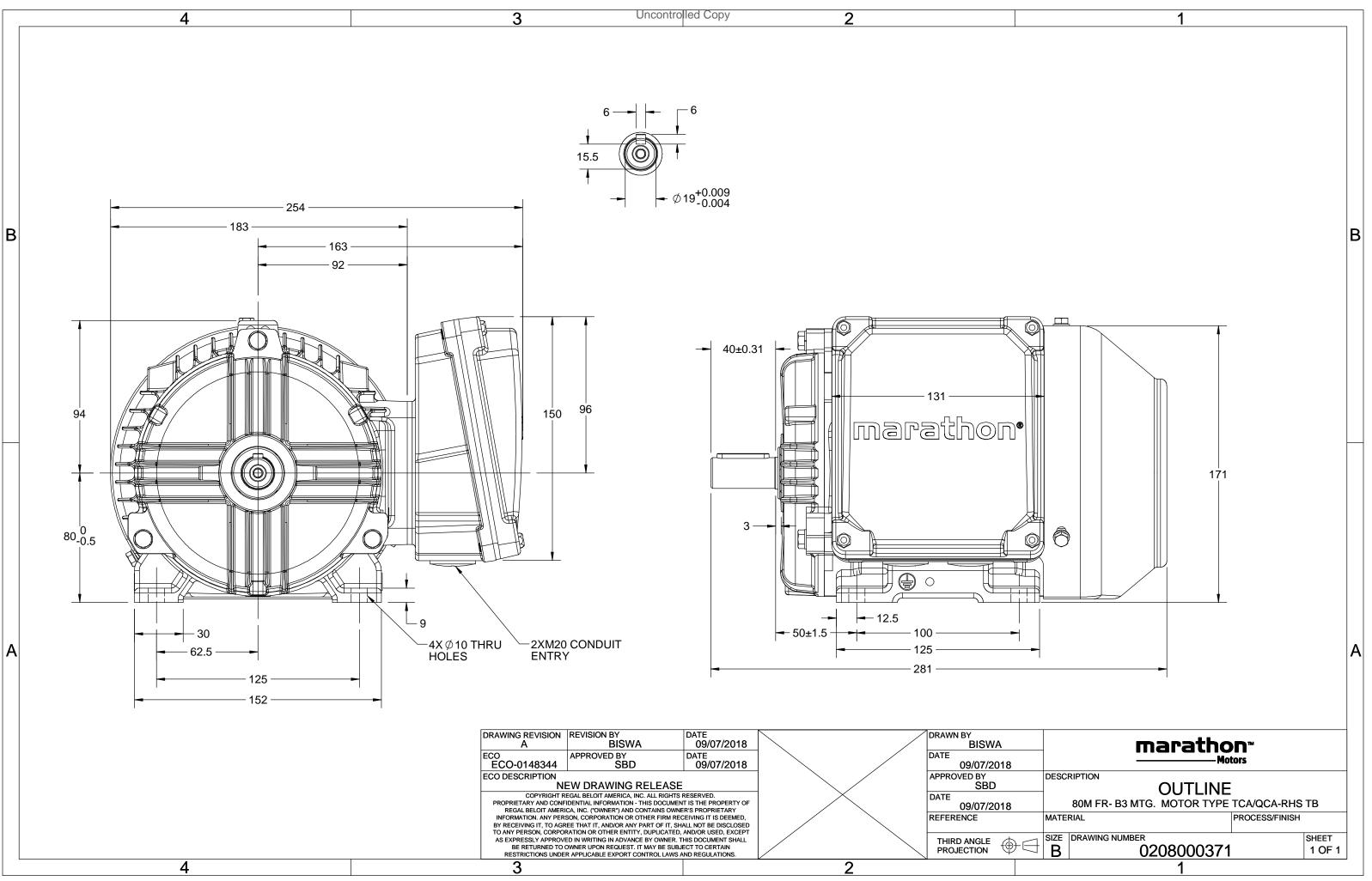
### Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	2.3 A	Speed	2878 rpm
Service Factor	1	Phase	3
Efficiency	82.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
UL	No	CSA	Νο
CE	Yes	IP Code	55

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	281 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0208000371	Connection Drawing	8442000085

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# **TerraMAX**<sup>®</sup>

#### Model No. TCA1P11A1113GAC010

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	Y	50	1.1	1.5	2.3	2878	3.71	IE3	-	82.7	82.7	79.3	0.84	0.77	0.64	6.8	3.2	3.3
Motor					TCA				Day	area of	arataati					IP 55		
Motor Enclosu	/1				TEFC						protecti	on				IM B3		
		1			Cast Irc					ounting						IC 411		
Frame	Materia				80M	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				oling me						20		ka
	size				51						ght - ap					20		kg
Duty	. verietic	*			± 10%	·					sht - app	rox.				0.0016		kg kgm²
	e variatio				± 10%					otor iner ad inerti					Cust	0.0016 omer to Provid	0	кgm
	ncy varia				± 5%					ration l					Cusio	1.6	e	
		ation *			10%										-)	56		mm/s
Design					1.0						(1mete				)	2/3/4		dB(A)
Service					1.0 F						ts hot/c	ola/Equ	ally spr	ead		DOL		
	ion class				-20 to +	40		0.0		rting m						DUL		
	nt tempe							°C	71	be of co								
	rature ri	• •		ce)	80 [ Class	-		K			nd time	· ·	ld)			7/15		S
	e above				1000			meter			of rotatio	on				i-directional		
	ous area				NA					ndard r					Cloc	ckwise form DE		
	Zone cla		tion		NA					nt shad						RAL 5014		
	Gas gro	•			NA				Acc	cessorie								
	Temper	ature o	class		NA						cessory -					PTC 150°C		
Rotor t	ype				uminum D						cessory -					-		
Bearing	g type				nti-frictio					Aco	cessory -	3				-		
DE / NI	DE beari	ng			04-2Z / 6				Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	Greased fo	or life			Ma	iximum	cable si	ze/cond	uit size	1R	x 3C x 1	10mm²/2 x M2	0 x 1.5	
Type of	f grease				NA				Aux	xiliary te	erminal	box				NA		

 $I_A/I_N$  - Locked Rotor Current / Rated Current

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

 $T_A/T_N$  - 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.

 Efficiency
 Europe
 China
 India
 Aus/Nz
 Brazil
 Global IEC

 Standards
 GB 18613-2012 Grade 2
 IEC: 60034-30

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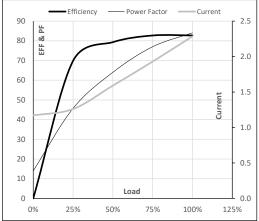


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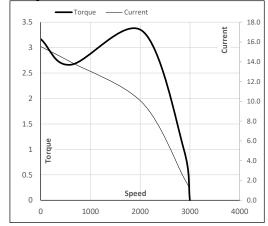
Enclosure	U	$\Delta / Y$	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Y	50	1.1	1.5	2.3	2878	0.38	3.71	IE3	40	S1	1000	0.0016	20
TEIC	400	Ŷ	50	1.1	1.5	2.3	2878	0.38	3.71	IE3	40	51	1000	0.0016	

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.2	1.3	1.6	1.9	2.3	
Torque	Nm	0.0	0.9	1.8	2.8	3.7	
Speed	r/min	3000	2970	2943	2912	2878	
Efficiency	%	0.0	69.8	79.3	82.7	82.7	
Power Factor	%	14.0	45.7	64.0	77.0	84.0	

#### Performance vs Load Chart



#### Starting Characteristics Chart



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

Issued By Issued Date

Motor Speed Torque Data

r/min

А

pu

LR

0

15.5

3.2

P-Up

600

14.0

2.7

BD

2040

9.9

3.3

Rated

2878

2.3

1

NL

3000

1.2

0

Load Point

Speed

Current

Torque

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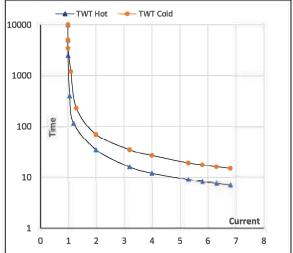
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
4	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Ŷ	50	1.1	1.5	2.3	2878	0.38	3.71	IE3	40	S1	1000	0.0016	20

#### Motor Speed Torque Data

Load	C .	FL	l <u>1</u>	l₂	l3	I <sub>4</sub>	l <sub>5</sub>	LR
TWT Hot	S	10000	35	20	12	10	9	7
TWT Cold	s	10000	70	40	27	23	19	15
Current	pu	1	2	3	4	5	5.5	6.8

#### Thermal Characteristics Chart



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

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