## **PRODUCT INFORMATION PACKET**

Model No: TCAP752A1113GAC010 Catalog No: TCAP752A1113GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 80M Frame, TEFC



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# marathon®

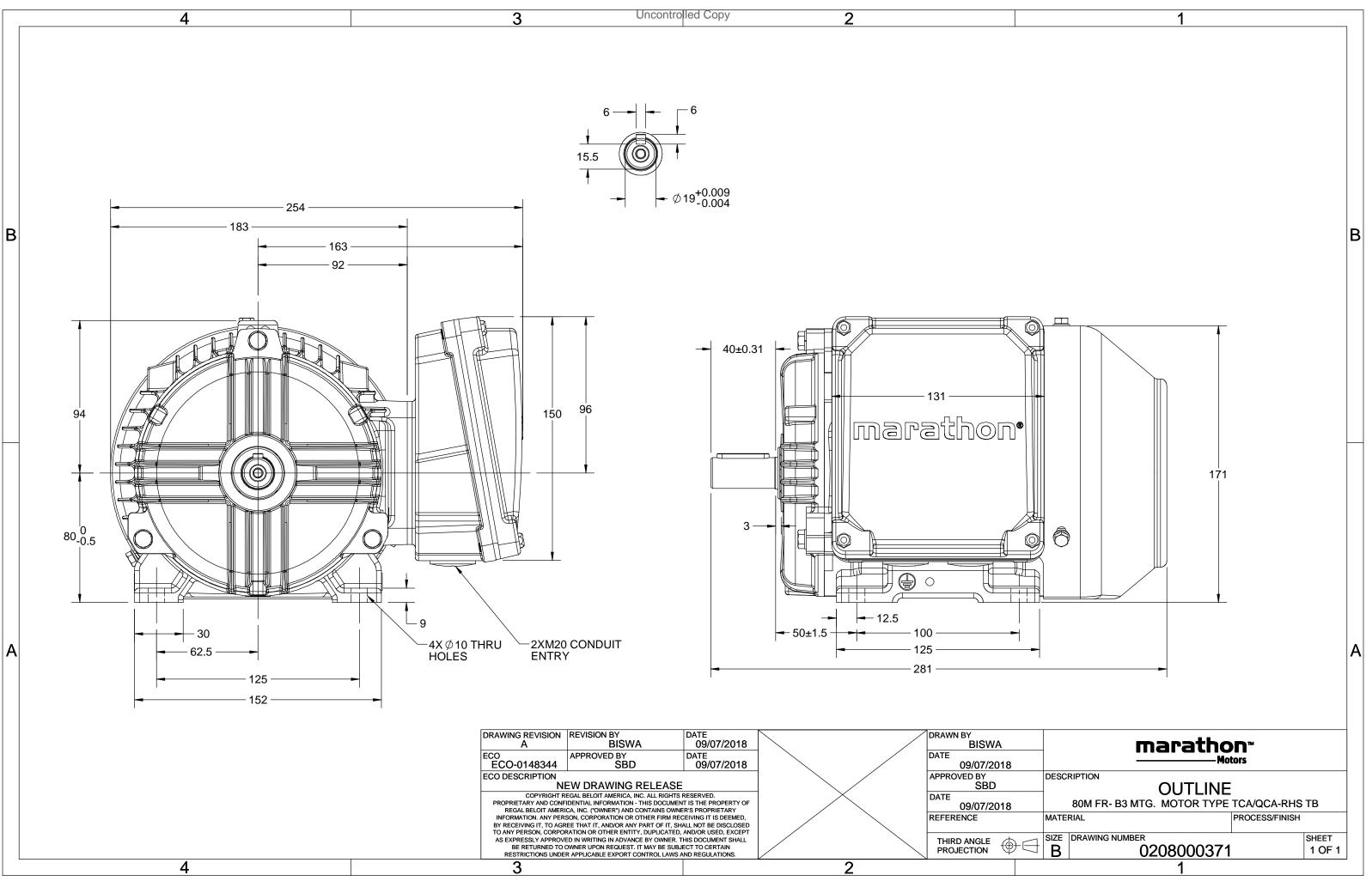
## Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 V
Current	1.8 A	Speed	1446 rpm
Service Factor	1	Phase	3
Efficiency	82.5 %	Power Factor	0.75
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	No
CE	Yes	IP Code	55

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	ВЗ	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		
Connection Drawing	8442000085	Outline Drawing	0208000371

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# **TerraMAX**<sup>®</sup>

#### Model No. TCAP752A1113GAC010

$U = \Delta / Y = f$	Р	P I	n	Т	IE	9	% EFF a	t load	ł	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(V) Conn [Hz] [l	kW] [ŀ	np] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 Y 50 0	).75	1 1.7	1446	4.92	IE3	-	82.5	82.5	77.6	0.75	0.66	0.51	6.6	3.0	3
		тс	•		Į					Į			IP 55		
Motor type		TE						orotecti	on				IP 55 IM B3		
Enclosure		Cast	-				unting						IC 411		
Frame Material		80					oling me						21		
Frame size		S						ght - apj					21		kg
Duty							ht - app	rox.						kg	
Voltage variation *						tor inertia d inertia Custor					0.0031 omer to Prov	ido	kgm <sup>2</sup>		
Frequency variation * Combined variation *		± : 10										Cusic	1.6	lue	
		IC N					ration l		ar diata.	ana fran	n motor	۰ ۱	54		mm/s
Design Service factor		1.						•				)	2/3/4		dB(A)
		F						ts hot/c	ola/Equ	ally spr	ead		DOL		
Insulation class		-20 to			°C		rting m						Direct		
Ambient temperature	:-+	80 [ Cl			ĸ		e of co		(h + /	1-11			15/30		-
Temperature rise (by resi Altitude above sea level	istance)	10 10	-					nd time of rotatio		ia)		D	i-directional		S
Hazardous area classifica	tion	10 N			meter		ndard r		on				kwise form I	רב	
Zone classification		N					nuaru r nt shad					CIUC	RAL 5014	JL	
Gas group	n	N					essorie	-					KAL 3014		
Temperature clas	· c	N				ALL		s :essory -	1				PTC 150°C		
Rotor type	5	Aluminun						essory -					-		
Bearing type		Anti-fric						essory -					_		
DE / NDE bearing		6204-2Z /				Tor		ox posit					RHS		
Lubrication method		Greased						cable siz		luit sizo	1R	x 3C x 1	L0mm²/2 x N	120 x 1 5	
Type of grease		N						erminal		unt size	10		NA	.25 x 1.5	
i ype of glease			•			Au	linary le	annindi	001						

 $I_{\text{A}}/I_{\text{N}}$  - 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. India Aus/Nz Brazil Efficie Chi E

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



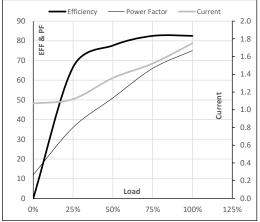


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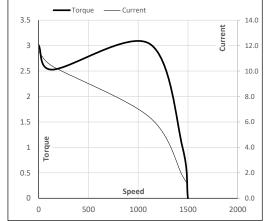
[m]	f 1	2
[m]	[m]	[kg-m <sup>2</sup> ] [kg]
1000	1000	0.0031 21
		1000

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.1	1.1	1.4	1.5	1.7	
Torque	Nm	0.0	1.2	2.4	3.7	4.9	
Speed	r/min	1500	1486	1474	1461	1446	
Efficiency	%	0.0	66.6	77.6	82.5	82.5	
Power Factor	%	12.0	36.0	51.0	66.0	75.0	

### 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

11.5

3.0

P-Up

136

10.4

2.5

BD

1112

6.4

3.0

Rated

1446

1.7

1

NL

1500

1.1

0

Load Point

Speed

Current Torque

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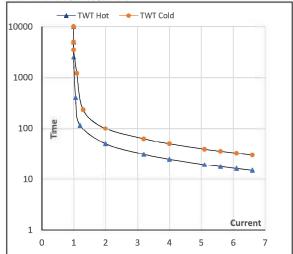
Model No. TCAP752A1113GAC010

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	Y	50	0.75	1.0	1.7	1446	0.50	4.92	IE3	40	<b>S1</b>	1000	0.0031	21

## Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	I <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	S	10000	50	34	25	22	18	15
TWT Cold	S	10000	99	65	50	42	37	30
Current	pu	1	2	3	4	5	5.5	6.6

Thermal Characteristics Chart



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

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