### **PRODUCT INFORMATION PACKET**

Model No: TCAP752A1121GAC010 Catalog No: TCAP752A1121GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 80M Frame, TEFC



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Product Information Packet: Model No: TCAP752A1121GAC010, Catalog No:TCAP752A1121GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 80M Frame, TEFC

# marathon®

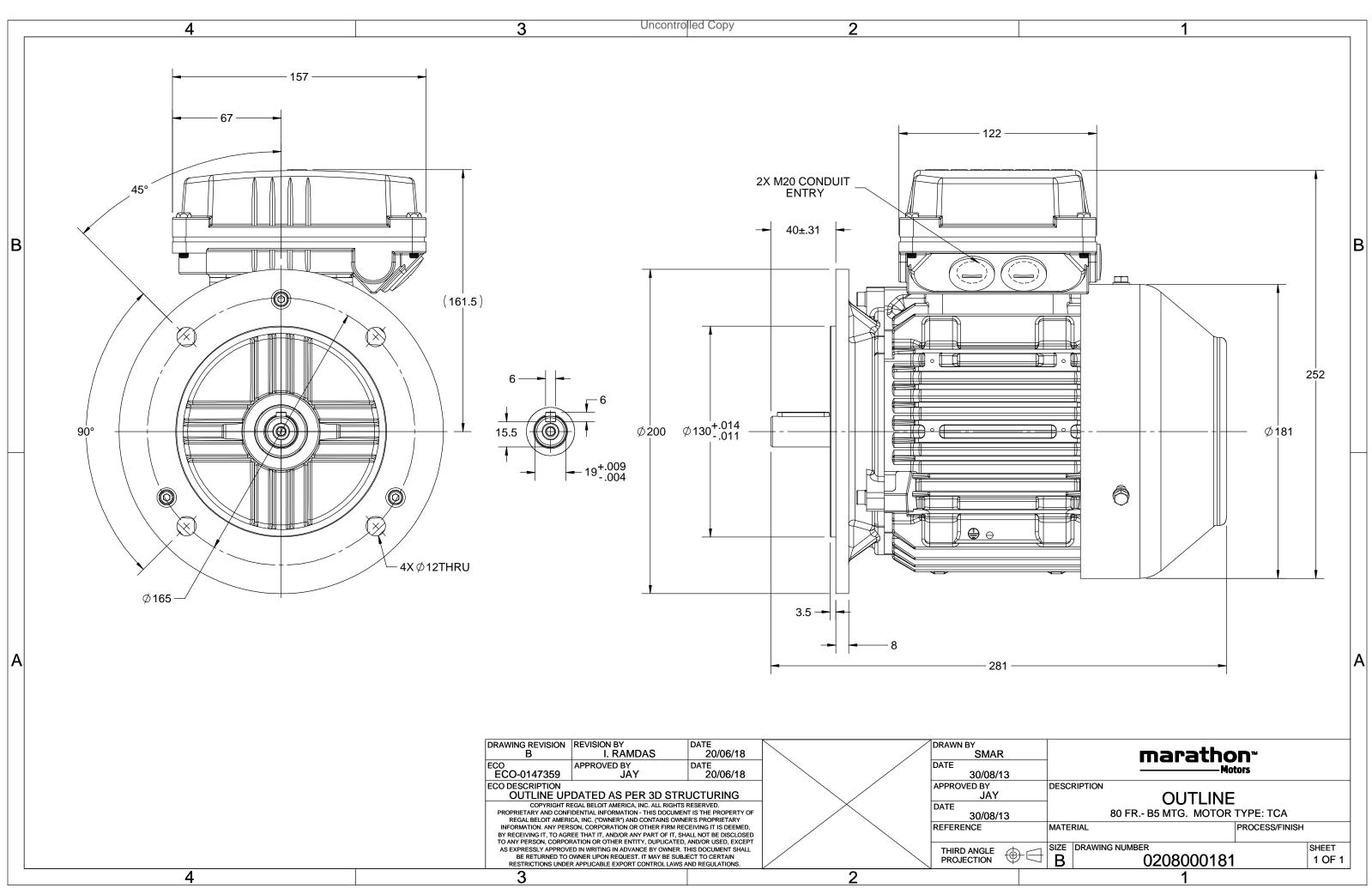
### Nameplate Specifications

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	B5	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	Тор		
Connection Drawing	8442000085	Outline Drawing	0208000181

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# **TerraMAX**<sup>®</sup>

#### Model No. TCAP752A1121GAC010

U	$\Delta / Y$	f	Р	Р	Ι	n	Т	IE		% EFF a	t loa	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	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	3.0
					ТСА				-				1			IP 55		
Motor t	<i>'</i> ·				TEFC					0	protecti	on				IP 55 IM B5		
Enclosu										ounting								
	Materia	I			Cast Ir					oling me						IC 411		
Frame s	size				80M						ght - ap					23		kg
Duty					S1	,				-	ght - app	rox.				24		kg
	e variatio				± 10%					otor iner					<b>.</b> .	0.0031		kgm <sup>2</sup>
	ncy varia				± 5%					inerti					Custo	omer to Pro	ovide	
	ned varia	ation *			10%					ration l						1.6		mm/s
Design					N						•			n motoi	-)	54		dB(A)
Service					1.0						ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F					rting m						DOL		
Ambien	nt tempe	erature			-20 to +			°C		pe of co	upling					Direct		
Temper	rature ri	ise (by i	resistan	ce)	80 [ Clas	-		K	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitude	e above	sea lev	el		1000			meter	Dir	ection o	of rotation	on				Bi-directiona		
Hazardo	ous area	a classif	fication		NA				Sta	ndard r	otation				Cloo	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Ace	cessorie	S							
	Temper	rature o	class		NA					Ace	cessory	- 1				PTC 150°C		
Rotor ty	ype			Alu	uminum [	Die cast				Ace	cessory -	- 2				-		
Bearing	g type			A	nti-frictio	on ball				Ace	cessory	- 3				-		
DE / ND	DE beari	ng		620	)4-2Z / (	5204-2Z			Те	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	ireased fo	or life			Ma	iximum	cable si	ze/cond	luit size	1R	x 3C x 3	10mm²/2 x	M20 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

Standards

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 Europe China GB 18613-2012 Grade 2

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Global IEC -IEC: 60034-30 \_





#### Model No. TCAP752A1121GAC010

Enclosure	U	$\Delta / Y$	f	Р	Р	I	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	0.75	1.0	1.7	1446	0.50	4.92	IE3	40	S1	1000	0.0031	23

#### Motor Load Data

Motor Speed Torque Data

r/min

Α

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

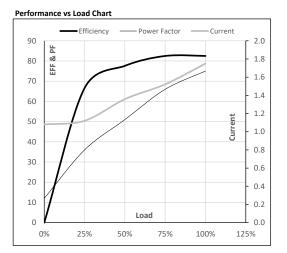
Load Point

Speed

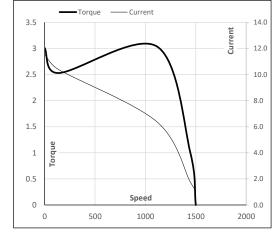
Current

Torque

WOLDI LOAU Da	ald						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	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	



#### Starting Characteristics Chart



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

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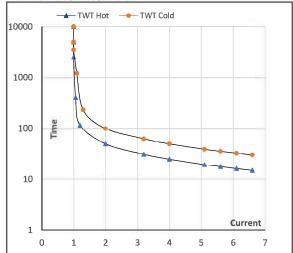
#### Model No. TCAP752A1121GAC010

Enclosure	U	Δ/Υ	f	Р	Р	I	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	0.75	1.0	1.7	1446	0.50	4.92	IE3	40	S1	1000	0.0031	23

#### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	۱ <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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