## **PRODUCT INFORMATION PACKET**

Model No: TCA7P52A1171GAC010 Catalog No: TCA7P52A1171GAC010 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 132M Frame, TEFC



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marathon<sup>®</sup>

Motors

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## marathon®

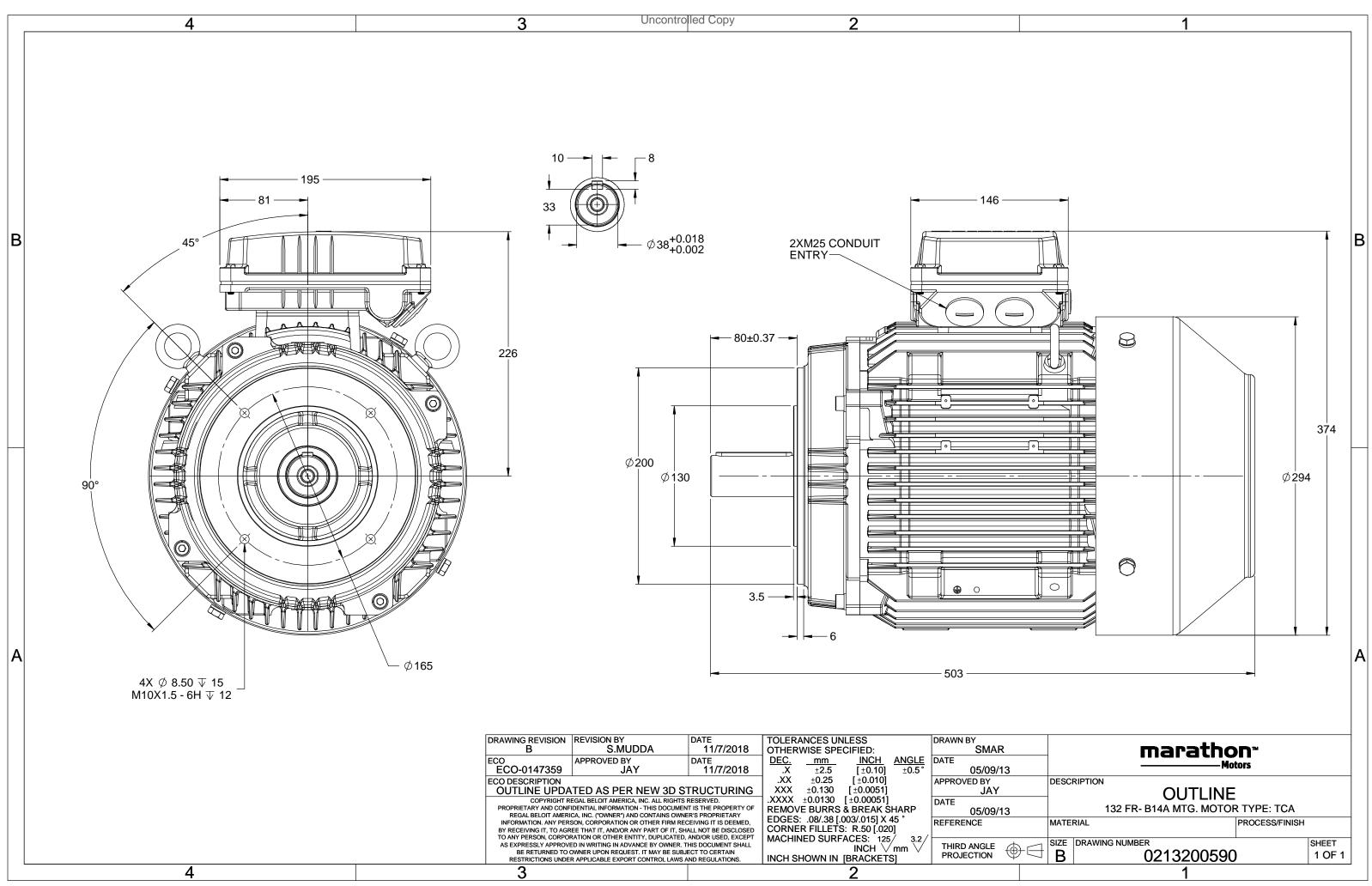
#### Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	50 Hz	Voltage	400 V
Current	14.4 A	Speed	1470 rpm
Service Factor	1	Phase	3
Efficiency	90.4 %	Power Factor	0.83
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
Drive End Bearing Size	6308 No	Opp Drive End Bearing Size CSA	6208 No

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B14A	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	Тор		
Outline Drawing	0213200590	Connection Drawing	8442000085

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## **TerraMAX**<sup>®</sup>

#### Model No. TCA7P52A1171GAC010

U	$\Delta / Y$	f	Р	Р	Ι	n	Т	IE		% EFF a	t_loa	t	PI	F at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(∨)	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	7.5	10	14.4	1470	48.47	IE3	-	90.4	90.4	90.4	0.83	0.77	0.65	7.5	2.8	3.0
					ТСА				De							IP 55		
Motor 1 Enclosu					TEFC					gree of		on				IP 55 IM B14A		
					Cast Irc					ounting						IC 411		
Frame	Materia	I			132M					oling me						93		ka
	size				1521VI S1	1				otor wei						95		kg
Duty		*			± 10%	,				oss weig		rox.				90 0.0550		kg
	e variatio				± 10%					tor iner					Cust	omer to Pro	uida	kgm <sup>2</sup>
•	ncy varia				± 5% 10%					inerti					Custo	1.6	vide	,
	ned varia	ation *								ration l					,			mm/s
Design					N						•			m motor	r)	61		dB(A)
Service					1.0					. of star		old/Equ	ally spr	read		2/3/4		
	on class				F					rting m						DOL		
	nt tempe				-20 to +			°C		be of co						Direct		
			resistanc	e)	80 [ Class	-		К		withsta		• •	ld)			10/20		S
Altitude	e above	sea lev	el		1000			meter	Dir	ection c	f rotatio	on				i-directional		
Hazard	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				Acc	cessorie	S							
	Temper	rature o	class		NA					Acc	essory	· 1				PTC 150°C		
Rotor t	ype			Alı	uminum D	)ie cast				Acc	essory	- 2				-		
Bearing	g type			A	nti-frictio	n ball				Acc	essory	- 3				-		
DE / NC	DE beari	ng		630	08-2Z / 6	5208-2Z			Ter	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	16mm²/2 x M	M25 x 1.5	
Type of	fgrease				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. 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





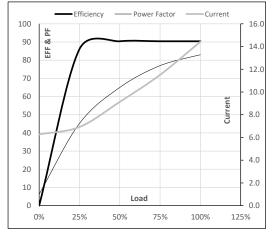
Model No. TCA7P52A1171GAC010

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	Δ	50	7.5	10.0	14.4	1470	4.94	48.47	IE3	40	S1	1000	0.055	93

#### Motor Load Data

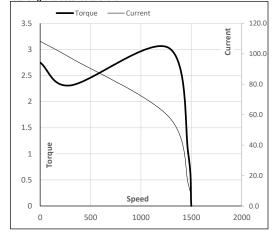
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	6.3	6.9	9.1	11.5	14.4	
Nm	0.0	11.9	24.0	36.1	48.5	
r/min	1500	1493	1486	1478	1470	
%	0.0	86.1	90.4	90.4	90.4	
%	6.3	45.2	65.0	77.0	83.0	
	Nm r/min %	A         6.3           Nm         0.0           r/min         1500           %         0.0	A         6.3         6.9           Nm         0.0         11.9           r/min         1500         1493           %         0.0         86.1	A         6.3         6.9         9.1           Nm         0.0         11.9         24.0           r/min         1500         1493         1486           %         0.0         86.1         90.4	A         6.3         6.9         9.1         11.5           Nm         0.0         11.9         24.0         36.1           r/min         1500         1493         1486         1478           %         0.0         86.1         90.4         90.4	A         6.3         6.9         9.1         11.5         14.4           Nm         0.0         11.9         24.0         36.1         48.5           r/min         1500         1493         1486         1478         1470           %         0.0         86.1         90.4         90.4         90.4

#### Performance vs Load Chart



Motor Speed	Torque Dat	a					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1275	1470	1500	
Current	А	108.2	97.4	58.7	14.4	6.3	
Torque	pu	2.8	2.3	3.0	1	0	

#### Starting Characteristics Chart



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

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Model No. TCA7P52A1171GAC010

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	Δ	50	7.5	10.0	14.4	1470	4.94	48.47	IE3	40	S1	1000	0.055	93

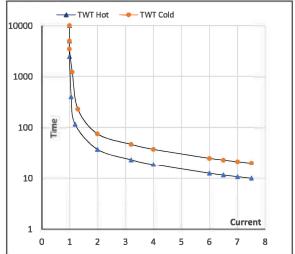
LR

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# Motor Speed Torque Data Load FL l1 l2 l3 l4 l5 TWT Hot s 10000 38 26 19 16 13

Current pu 1 2 3 4 5 5.5 7.5									
	Current	pu	1	2	3	4	5	5.5	7.5
	10011101	3	10000	50	20	10	10	10	10

#### Thermal Characteristics Chart



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

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