### **PRODUCT INFORMATION PACKET**

Model No: TCA7P54A1121GAC010 Catalog No: TCA7P54A1121GAC010 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 160L Frame, TEFC



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## marathon®

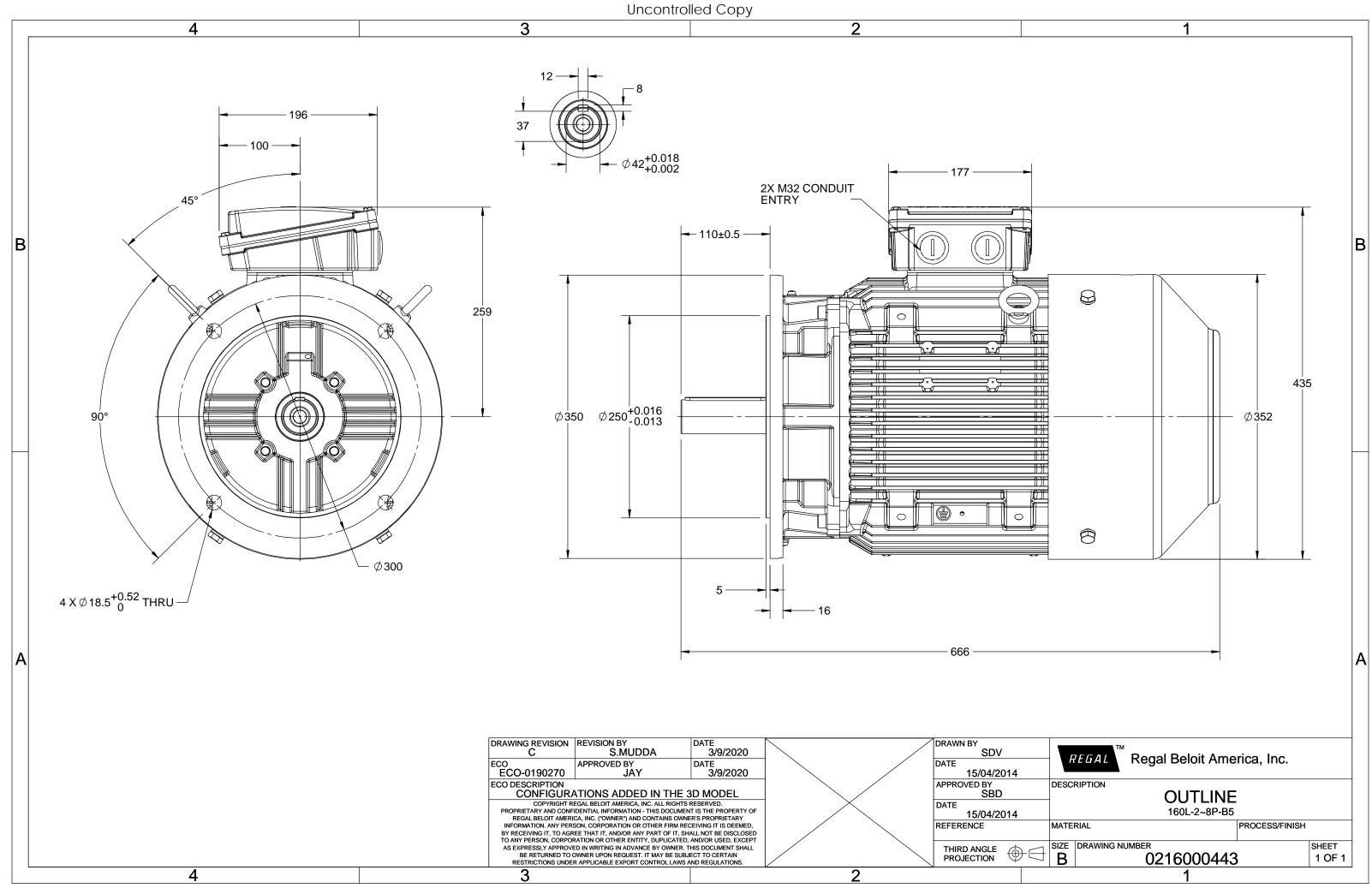
#### Nameplate Specifications

Output HP	10 Нр	Output KW	7.5 kW
Frequency	50 Hz	Voltage	400 V
Current	17.2 A	Speed	728 rpm
Service Factor	1	Phase	3
Efficiency	87.3 %	Power Factor	0.72
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Tranc	1002	Enclosedio	Totally Enclosed I all booled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	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	666 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0216000443	Connection Drawing	8442000085

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# **TerraMAX**<sup>®</sup>

#### Model No. TCA7P54A1121GAC010

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE		% EFF a	t loa	b	PF	at lo	bad	$I_A/I_N$	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(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	7.5	10	17.2	728	97.97	IE3	-	87.3	87.3	87.8	0.72	0.65	0.52	5.4	1.8	2.3
Motor t	type				TCA				De	gree of	protecti	on				IP 55		
Enclosu	ire				TEFC				Мс	ounting	type					IM B5		
Frame I	Materia	I			Cast Irc	n				oling me						IC 411		
Frame s	size				160L				Mo	otor wei	ght - ap	prox.				178		kg
Duty					S1				Gro	oss weig	ght - app	orox.				198		kg
Voltage	variatio	on *			± 10%	i.			Mo	otor iner	tia					0.2040		kgm <sup>2</sup>
Frequer	ncy varia	ation *			± 5%				Loa	ad inerti	а				Cust	omer to Pro	ovide	
Combin	ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				No	ise leve	( 1met	er dista	nce fror	n motor	-)	59		dB(A)
Service	factor				1.0				No	. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F				Sta	rting m	ethod					DOL		
Ambien	nt tempe	erature			-20 to +	40		°C	Тур	be of co	upling					Direct		
Temper	rature ri	se (by i	resistanc	e)	80 [ Class	B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitude	e above	sea lev	el		1000			meter	Dir	ection c	of rotati	on			В	i-direction	al	
Hazardo	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise forn	n DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Ace	cessorie	S							
	Temper	ature o	class		NA					Aco	cessory	- 1				PTC 150°C		
Rotor ty	ype			Alu	ıminum d	ie cast				Aco	cessory	- 2				-		
Bearing	type			A	nti-frictio	n ball				Aco	cessory	- 3				-		
DE / NC	)E beari	ng		630	09-2Z / 6	209-2Z			Те	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	reased fo	r life			Ma	iximum	cable si	ze/cond	uit size	1R	x 3C x 3	35mm²/2 X	M32 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

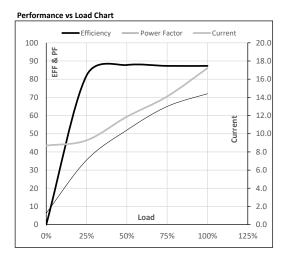




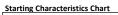
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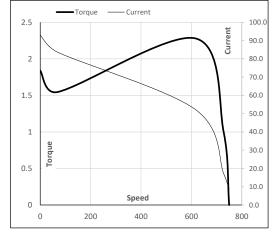
Enclosure	U	$\Delta / Y$	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	7.5	10.0	17.2	728	9.99	97.97	IE3	40	S1	1000	0.204	178

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	8.7	9.3	11.9	14.1	17.2	
Torque	Nm	0.0	24.0	48.2	72.9	98.0	
Speed	r/min	750	745	740	734	728	
Efficiency	%	0.0	82.0	87.8	87.3	87.3	
Power Factor	%	6.3	35.5	52.0	65.0	72.0	



Motor Speed	Torque Dat	а				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	68	616	728	750
Current	А	93.0	83.7	52.3	17.2	8.7
Torque	pu	1.8	1.5	2.3	1	0





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

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