PRODUCT INFORMATION PACKET

Model No: TCA0041A1121GAC010 Catalog No: TCA0041A1121GAC010 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 112M Frame, TEFC



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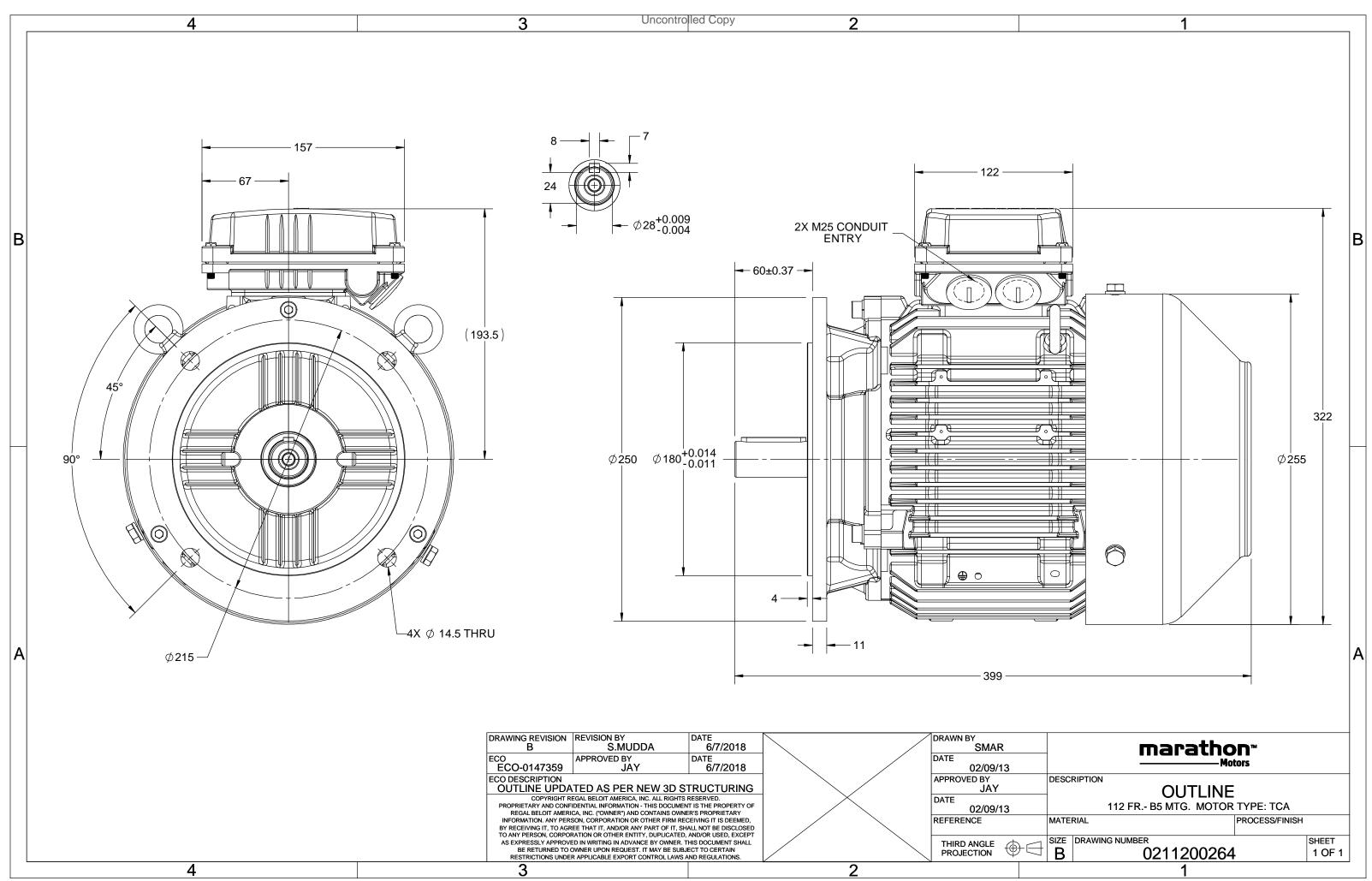
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	400 V
Current	7.3 A	Speed	2921 rpm
Service Factor	1	Phase	3
Efficiency	88.1 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	112M No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6306	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line		
Poles	2	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	399 mm	Frame Length	174 mm		
Shaft Diameter	28 mm	Shaft Extension	60 mm		
Assembly/Box Mounting	Тор				
Outline Drawing	0211200264	Connection Drawing	8442000085		

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TerraMAX[®]

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t loa	d	PI	F 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	4	5.5	7.3	2921	13.41	IE3	-	88.1	88.1	88.1	0.9	0.86	0.76	8.6	2.7	3.7
Motor	type				TCA				De	gree of	protecti	on				IP 55		
Enclosu	/ .				TEFC					ounting	-					IM B5		
Frame I	Materia	I			Cast Iro	on				oling me						IC 411		
Frame	size				112N	I				•	ght - ap	prox.				49		kg
Duty					S1				Gross weight - approx.						52		kg	
Voltage	e variatio	on *			± 10%	5			Motor inertia						0.0101			
Freque	ncy varia	ation *			± 5%				Loa	Load inertia					Customer to Provide			kgm ²
Combin	ned varia	ation *			10%				Vib	Vibration level						1.6		mm/s
Design					Ν				No	ise leve	evel (1meter distance from motor				-)	64		
Service	factor				1.0				No	. of star	ts hot/c	old/Equ	ally spr	ead	2/3/4			
Insulati	on class				F				Sta	irting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	be of co	upling				Direct			
Temper	rature ri	se (by i	resistanc	e)	80 [Class	5 B]		К	LR	withsta	nd time	(hot/co	ld)			7/15		S
Altitude	e above	sea lev	el		1000			meter	Dir	ection o	of rotati	on			В	i-direction	al	
Hazard	ous area	a classif	ication		NA				Sta	indard r	otation				Cloc	ckwise form	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					Ace	cessory	- 1				PTC 150°C		
Rotor t	ype			Aluminum Die cast				Ace	cessory	- 2				-				
Bearing	g type			A	nti-frictio	n ball				Ace	cessory	- 3				-		
DE / ND	DE beari	ng		630)6-2Z / 6	5206-2Z			Те	rminal b	ox posi	tion				TOP		
Lubrica	tion me	thod		G	reased fo	or life			Ma	ximum	cable si	ze/conc	luit size	1R	x 3C x 3	16mm²/2 x	M25 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

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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 Global IEC Efficiency Europe China GB 18613-2012 Grade 2 -IEC: 60034-30 Standards -_

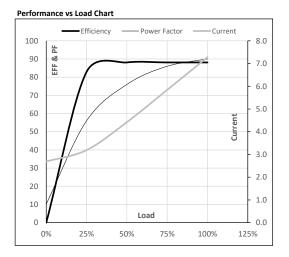




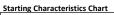
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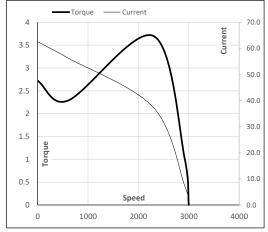
Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	4	5.5	7.3	2921	1.37	13.41	IE3	40	S1	1000	0.0101	49

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.7	3.2	4.4	5.8	7.3	
Torque	Nm	0.0	3.3	6.6	10.0	13.4	
Speed	r/min	3000	2981	2962	2943	2921	
Efficiency	%	0.0	82.9	88.1	88.1	88.1	
Power Factor	%	10.2	56.0	76.0	86.0	90.0	



Motor Spee	d Torque Dat	а				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2301	2921	3000
Current	А	62.6	56.3	37.3	7.3	2.7
Torque	pu	2.7	2.3	3.7	1	0





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

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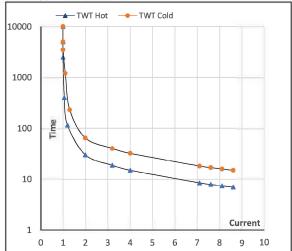
Model No. T CA0041A1121GA C010

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 ²]	[kg]
TEFC	400	Δ	50	4	5.5	7.3	2921	1.37	13.41	IE3	40	S1	1000	0.0101	49

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	s	10000	30	22	15	14	12	7
TWT Cold	s	10000	65	45	33	30	28	15
Current	pu	1	2	3	4	5	5.5	8.6

Thermal Characteristics Chart



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

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