PRODUCT INFORMATION PACKET

Model No: TCA5P52A1121GAC010 Catalog No: TCA5P52A1121GAC010 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 132S Frame, TEFC



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Motors



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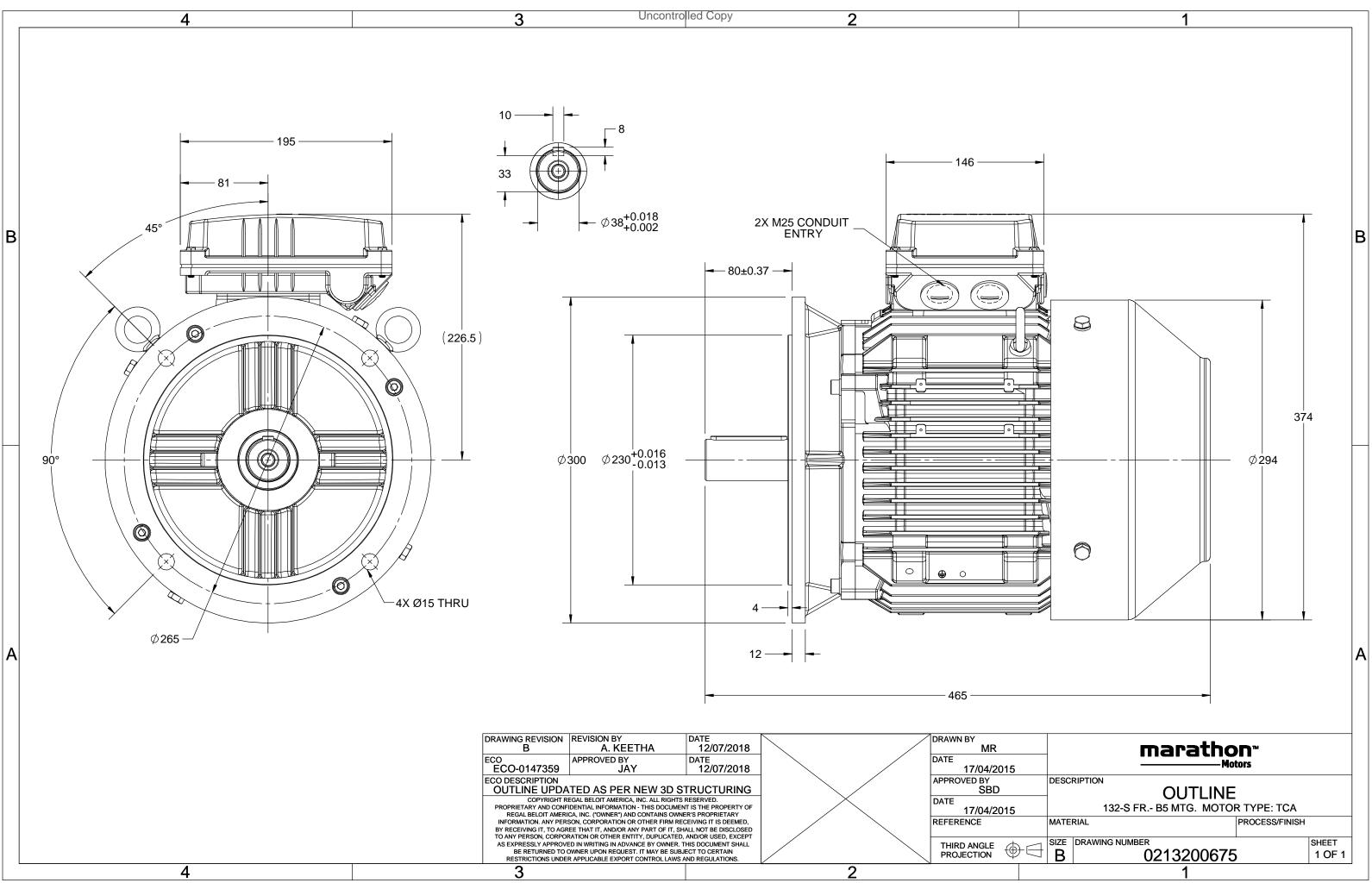
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	400 V
Current	10.6 A	Speed	1468 rpm
Service Factor	1	Phase	3
Efficiency	89.6 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	132S 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 6308	Ambient Temperature Opp Drive End Bearing Size	40 °C 6208

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	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0213200675	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	Ι	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	5.5	7.5	10.6	1468	36.4	IE3	-	89.6	89.6	89.7	0.84	0.79	0.67	6.7	2.3	2.7
Matan			ļ		TCA			ļ					Į			IP 55		
Motor					TEFC						protecti	on				IP 55		
Enclosu		1			Cast Ire					ounting						IC 411		
Frame	Materia	I			1325					oling me						85		ka
	size				1323 S1						ght - ap (ht - app	•				88		kg
Duty	e variatio	n *			± 10%	4				otor iner	, ,,	nox.				0.0446		kg kgm²
U	ncy varia				± 5%	-				ad inerti					Cust	omer to Pro	vide	Kgill
	ncy varia				± 5%					ration	-				Cust	1.6	viue	mm/s
Design					N							or dictor	nco fror	n motoi	cl	61		dB(A)
Service	factor				1.0						ts hot/c				1	2/3/4		ub(A)
	on class				F					rting m		olu/Lqu	any spi	cau		DOL		
	nt tempe				-20 to +	40		°C		be of co						Direct		
			resistanc	e)	80 [Clas	s B l		К			nd time	(hot/co	ld)			10/20		s
	e above	• •		c)	1000	-		meter			of rotati		10)		В	i-directiona	1	5
	ous area		•••		NA			meter		ndard r					Clo	ckwise form	DE	
	Zone cla				NA					nt shad						RAL 5014		
	Gas gro	up			NA				Acc	cessorie	s							
	Temper	•	class		NA					Acc	cessory	- 1				PTC 150°C		
Rotor t				Alı	uminum [Die cast					cessory					-		
Bearing	type			А	nti-frictic	n ball					cessory					-		
DE / NE) DE bearii	ng		630)8-2Z / (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	1F	x 3C x 3	16mm²/2 x I	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

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. Ffficiency Aus/Nz Brazil India China Furone

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

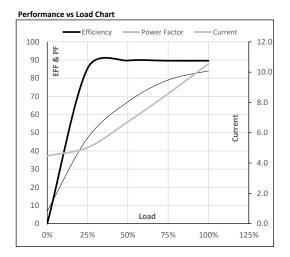




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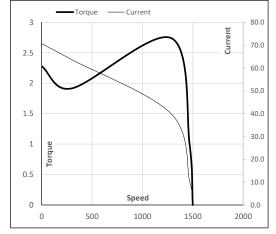
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	5.5	7.5	10.6	1468	3.71	36.40	IE3	40	S1	1000	0.0446	85

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.5	5.0	6.7	8.6	10.6	
Torque	Nm	0.0	8.9	18.0	27.1	36.4	
Speed	r/min	1500	1492	1485	1477	1468	
Efficiency	%	0.0	85.4	89.7	89.6	89.6	
Power Factor	%	6.9	47.1	67.0	79.0	84.0	



Motor Spee	d Torque Dat	а					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1287	1468	1500	
Current	А	70.7	63.6	39.9	10.6	4.5	
Torque	pu	2.3	1.9	2.7	1	0	

Starting Characteristics Chart



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

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Current



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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	5.5	7.5	10.5	1468	3.71	36.40	IE3	40	S1	1000	0.0446	83

LR

10

20

6.7

Motor Speed Torque Data FL I_4 Load I_1 l₂ l₃ I₅ TWT Hot s 10000 34 24 17 14 13 TWT Cold s 10000 67 45 34 28 24

2

3

4

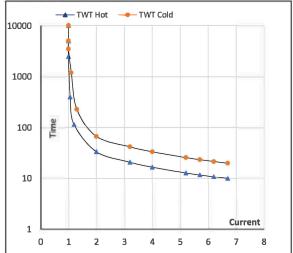
5

5.5

1

pu

Thermal Characteristics Chart



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

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