PRODUCT INFORMATION PACKET

Model No: TCA7P52A1131GAC010 Catalog No: TCA7P52A1131GAC010 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 132M Frame, TEFC



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Motors



Product Information Packet: Model No: TCA7P52A1131GAC010, Catalog No:TCA7P52A1131GAC010 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 132M Frame, TEFC

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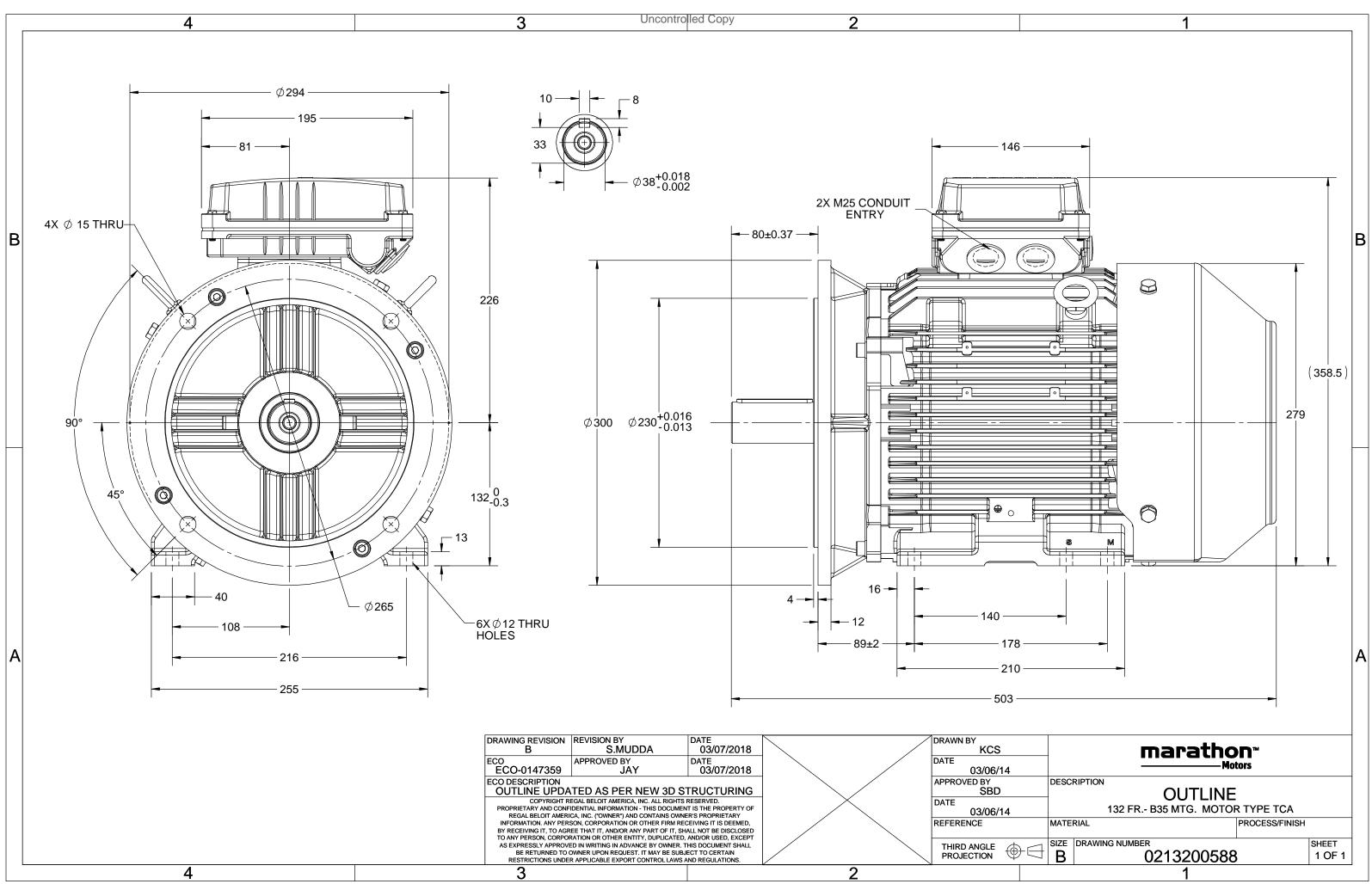
Nameplate Specifications

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
Traine			-
Thermal Protection	No Protection	Ambient Temperature	40 °C
		Ambient Temperature Opp Drive End Bearing Size	40 °C 6208
Thermal Protection	No Protection	·	
Thermal Protection Drive End Bearing Size	No Protection 6308	Opp Drive End Bearing Size	6208

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	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	0213200588	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t loa	ł	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	14.4	1470	48.47	IE3	-	90.4	90.4	90.4	0.83	0.77	0.65	7.5	2.8	3
Motor	typo				ТСА				Do	groo of	protecti	on				IP 55		
Enclosu	<i>/</i> 1				TEFC					ounting		011				IM B35		
	Materia	I			Cast Irc					oling me						IC 411		
Frame		1			1321					•	ght - ap	nrov				97		kg
Duty	3120				S1						ght - app					100		∿s kg
	e variatio	n *			± 10%	6				otor ine		107.				0.0550		kgm ²
	ncy varia				± 5%					ad inerti					Custo	omer to Pro	vide	KBIII
•	ned varia				10%					oration I						1.6		mm/s
Design					N							er dista	nce fror	n motor	-)	61		dB(A)
Service	factor				1.0						ts hot/c				,	2/3/4		()
Insulati	on class				F					irting m	-		,			DOL		
	nt tempe				-20 to +	40		°C		be of co						Direct		
			resistanc	e)	80 [Class	sB]		K			nd time	(hot/co	ld)			10/20		s
Altitude	e above	sea lev	el	,	1000			meter	Dir	ection o	of rotation	on ,	,		В	i-directiona	I	
Hazard	ous area	a classif	ication		NA				Sta	indard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	s							
	Temper	ature o	class		NA					Ace	cessory -	- 1				PTC 150°C		
Rotor ty	уре			Alu	uminum D	Die cast				Ace	cessory	- 2				-		
Bearing	g type			A	nti-frictio	n ball				Ace	cessory -	- 3				-		
DE / NC	DE beari	ng		630)8-2Z / 6	5208-2Z			Ter	rminal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	ireased fo	or life			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 1	16mm²/2 x	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. 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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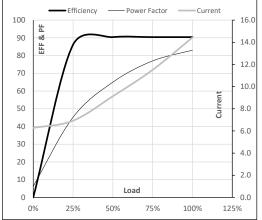


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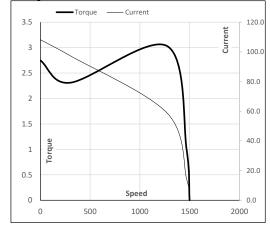
Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	7.5	10.0	14.4	1470	4.94	48.47	IE3	40	S1	1000	0.055	97

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	6.3	6.9	9.1	11.5	14.4	
Torque	Nm	0.0	11.9	24.0	36.1	48.5	
Speed	r/min	1500	1493	1486	1478	1470	
Efficiency	%	0.0	86.1	90.4	90.4	90.4	
Power Factor	%	6.3	45.2	65.0	77.0	83.0	

Performance vs Load Chart



Starting Characteristics Chart



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

Issued By Issued Date

Motor Speed Torque Data

r/min

А

pu

LR

0

108.2

2.8

P-Up

300

97.4

2.3

BD

1275

58.7

3.0

Rated

1470

14.4

1

NL

1500

6.3

0

Load Point

Speed

Current Torque

REGAL



Current



Model No. TCA7P52A1131GAC010

1

pu

Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
1	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	7.5	10.0	14.4	1470	4.94	48.47	IE3	40	S1	1000	0.055	93

Motor Speed Torque Data FL I_4 LR Load I_1 l₂ l₃ I₅ 10 TWT Hot s 10000 38 26 19 16 13 TWT Cold s 10000 75 50 38 35 24 20

2

3

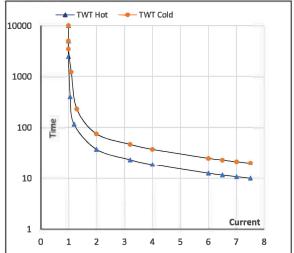
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5.5

7.5

Thermal Characteristics Chart



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

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