PRODUCT INFORMATION PACKET

Model No: TCA5P53A1131GAC010 Catalog No: TCA5P53A1131GAC010 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132M Frame, TEFC



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marathon®

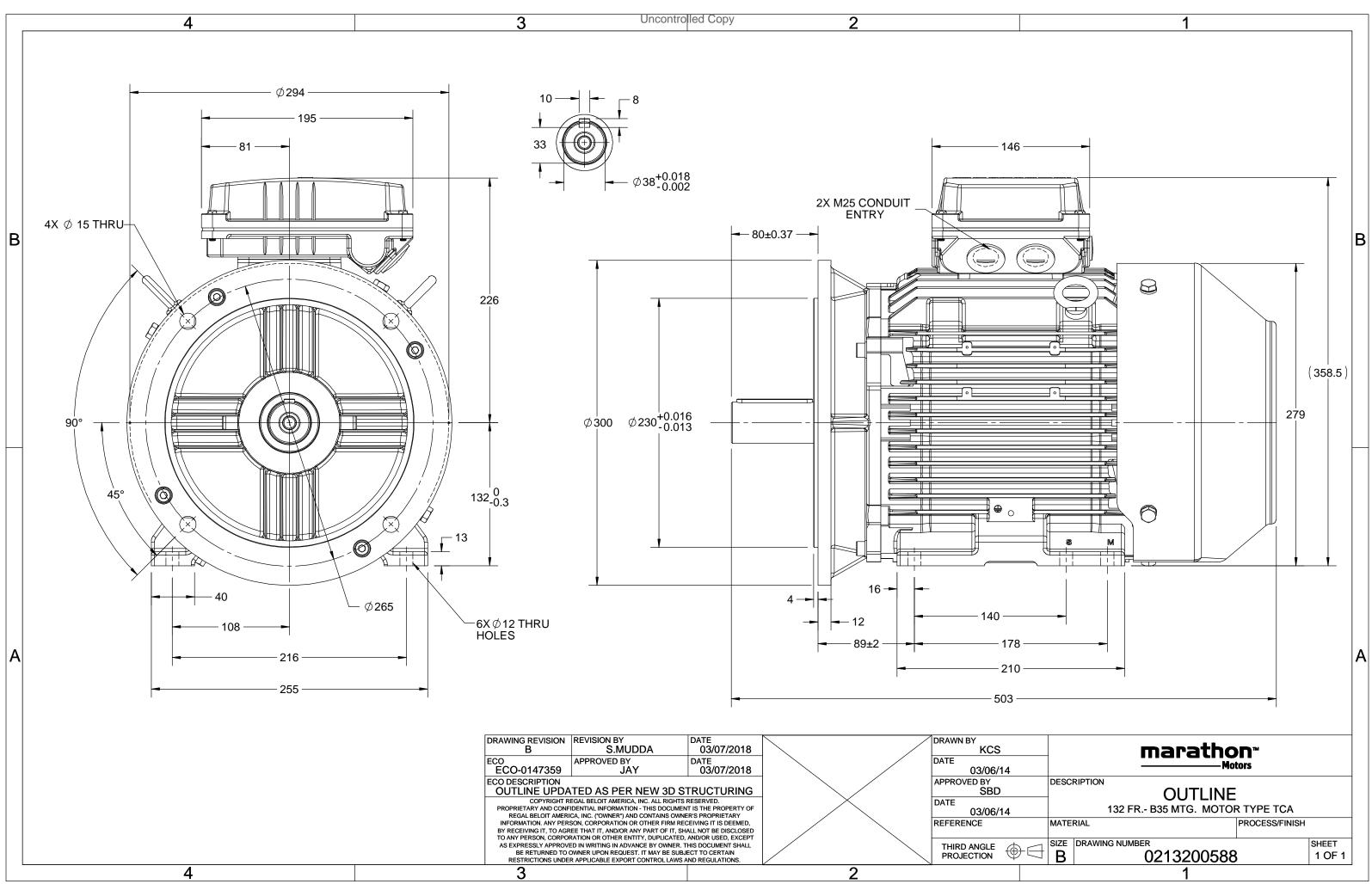
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.5 kW
Frequency	50 Hz	Voltage	400 V
Current	11.9 A	Speed	973 rpm
Service Factor	1	Phase	3
Efficiency	88 %	Power Factor	0.76
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
UL	No	CSA	No
CE	Yes	IP Code	55
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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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3 of 7





TerraMAX[®]

Model No. TCA5P53A1131GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	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	5.5	7.5	11.9	973	54.98	IE3	-	88	88	88	0.76	0.69	0.55	5.9	2.2	2.6
Motor	tvne				TCA				Dee	ree of	protecti	nn				IP 55		
Enclosu	<i>/</i> 1				TEFC					unting		011				IM B35		
	Materia	1			Cast Irc	on				oling m						IC 411		
Frame	size	-			132M					•	ght - ap	orox.				89		kg
Duty					S1						ght - app					92		kg
Voltage	e variatio	on *			± 10%				Мо	tor ine	rtia					0.0660		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	d inert	a				Custo	omer to Prov	vide	-
Combir	ned varia	ation *			10%				Vib	ration l	evel					1.6		mm/s
Design					Ν				Noi	se leve	l (1mete	er distar	nce fror	n motor	-)	59		dB(A)
Service	factor				1.0				No.	of star	ts hot/co	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	ise (by i	resistanc	e)	80 [Class	5 B]		К	LR ۱	withsta	nd time	(hot/co	ld)			15/30		S
Altitude	e above	sea lev	el		1000			meter	Dire	ection o	of rotatio	on			В	i-directional		
Hazard	ous area	a classif	fication		NA				Sta	ndard r	otation				Cloc	ckwise form I	DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	rature o	class		NA					Ac	cessory -	1				PTC 150°C		
Rotor t	уре			Alu	ıminum D	ie cast				Ac	cessory -	2				-		
Bearing	g type			A	nti-frictio	n ball				Ac	cessory -	3				-		
DE / NE	DE beari	ng		630	08-2Z / 6	5208-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	reased fo	r life			Ma	ximum	cable siz	e/cond	luit size	1R	x 3C x 1	16mm²/2 x N	125 x 1.5	
Type of	fgrease				NA				Aux	diliary to	erminal l	хоо				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.

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



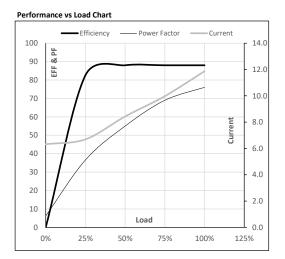


Model No. TCA5P53A1131GAC010

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	11.9	973	5.61	54.98	IE3	40	S1	1000	0.066	89

Motor Load Data

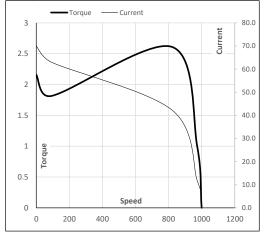
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	6.3	6.7	8.4	10.0	11.9	
Torque	Nm	0.0	13.5	27.1	40.9	55.0	
Speed	r/min	1000	994	987	981	973	
Efficiency	%	0.0	82.6	88.0	88.0	88.0	
Power Factor	%	6.2	36.6	55.0	69.0	76.0	



Motor Speed Torque Data

		-					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	821	973	1000	
Current	А	70.0	63.0	42.3	11.9	6.3	
Torque	pu	2.2	1.8	2.6	1	0	

Starting Characteristics Chart



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

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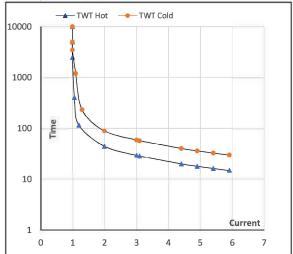
Model No. TCA5P53A1131GAC010

Enclosure	U	Δ/Υ	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	11.9	973	5.61	54.98	IE3	40	S1	1000	0.066	86

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	۱ ₅	LR
TWT Hot	s	10000	44	30	22	19	17	15
TWT Cold	s	10000	86	59	42	38	34	30
Current	pu	1	2	3	4	4.5	5	5.9

Thermal Characteristics Chart



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

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