PRODUCT INFORMATION PACKET

Model No: TCA5P52A1133GAC010 Catalog No: TCA5P52A1133GAC010 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 132S Frame, TEFC



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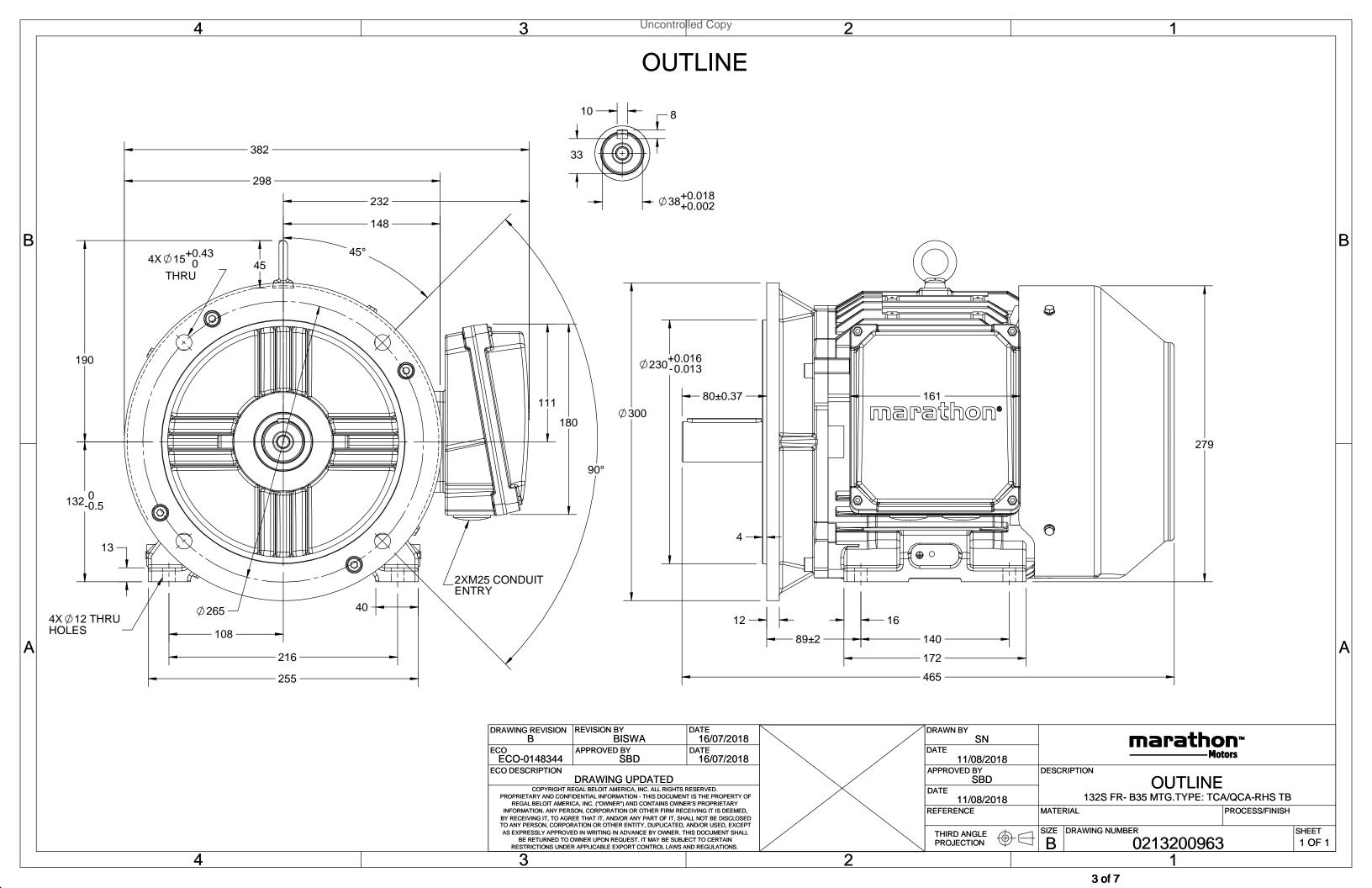
Nameplate Specifications

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
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	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	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0213200963	Connection Drawing	8442000085

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Model No. TCA5P52A1133GAC010

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	10.5	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 IM B35		
Enclosu		1			Cast Irc					ounting						IC 411		
Frame	Materia	I			1325					oling me						86		ka
Duty	size				1323 S1						ght - ap (ht - app	•				89		kg kg
,	e variatio	n *			± 10%	<u> </u>				otor iner	, ,,	nox.				0.0446		kgm ²
0	ncy varia				± 5%	-				ad inerti					Custo	omer to Prov	vide	Kgill
	ncy varia				± 5%					oration l	-				Cusii	1.6	viue	mm/s
Design					N							or dictor	nco fror	n motor	-)	61		dB(A)
Service	factor				1.0						ts hot/c				/	2/3/4		ub(A)
	on class				F					irting m		olu/Lqu	any spi	cau		DOL		
	nt tempe				-20 to +	40		°C		be of co						Direct		
			resistanc	e)	80 [Class	s B 1		К			nd time	(hot/co	ld)			10/20		s
	e above	• •		c)	1000	-		meter			of rotati		10)		В	li-directional		5
	ous area		•••		NA			meter		indard r					Cloc	ckwise form	DE	
	Zone cla				NA					nt shad						RAL 5014		
	Gas gro	up			NA				Acc	cessorie	s							
	Temper	•	class		NA					Ace	cessory	- 1				PTC 150°C		
Rotor t				Alu	uminum D	Die cast					cessory					-		
Bearing	type			А	nti-frictio	n ball					cessory					-		
DE / NI) DE bearii	ng		630)8-2Z / 6	5208-2Z			Ter	rminal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	reased fo	or life			Ma	ximum	cable si	ze/cond	luit size	1R	x 3C x 1	16mm²/2 x N	Л25 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





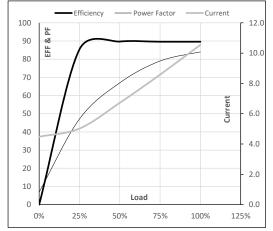
Model No. TCA5P52A1133GAC010

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	10.5	1468	3.71	36.40	IE3	40	S1	1000	0.0446	86

Motor Load Data

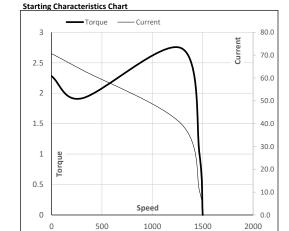
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.5	5.0	6.7	8.6	10.5	
Torque	Nm	0.0	8.9	18.0	27.1	36.4	
Speed	r/min	1500	1492	1485	1477	1468	
Efficiency	%	0.0	85.4	89.7	89.6	89.6	
Power Factor	%	6.9	47.1	67.0	79.0	84.0	

Performance vs Load Chart



Motor Speed Torque Data			
Load Point	LR	P-Up	

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1287	1468	1500	
Current	А	70.7	63.6	39.9	10.5	4.5	
Torque	pu	2.3	1.9	2.7	1	0	



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

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Model No. TCA5P52A1133GAC010

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

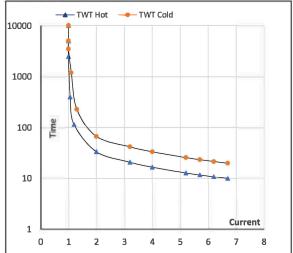
LR

10

Motor Speed Torque Data Load FL I1 I2 I3 I4 I5 TWT Hot s 10000 34 24 17 14 13

Current	pu	1	2	3	4	5	5.5	6.7
TWT Cold	S	10000	67	45	34	28	24	20
IWINUL	3	10000	34	24	1/	14	12	10

Thermal Characteristics Chart



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

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