PRODUCT INFORMATION PACKET

Model No: TCA7P52AF113GAC010 Catalog No: TCA7P52AF113GAC010 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 132M Frame, TEFC



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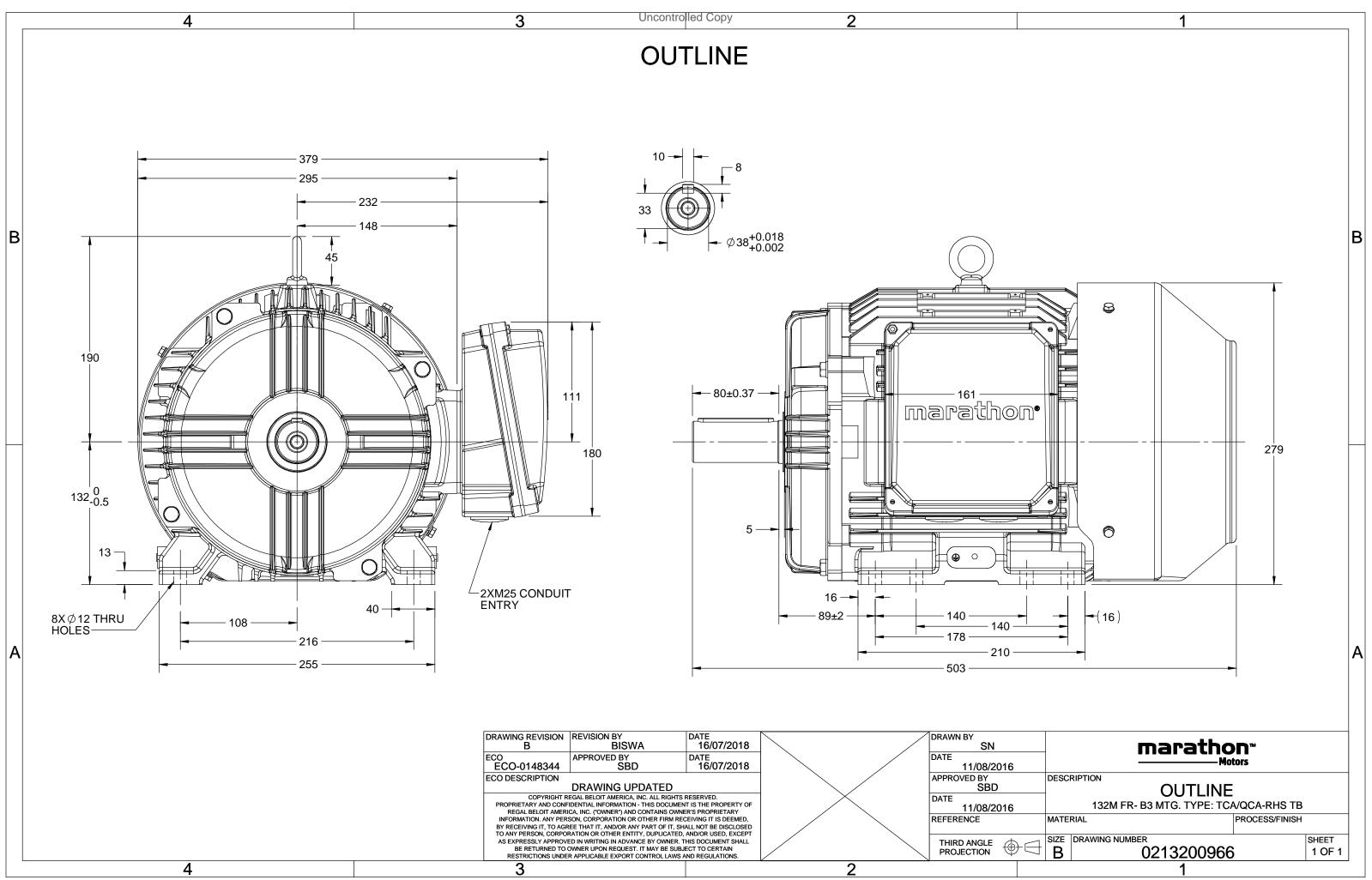
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW		
Frequency	50 Hz	Voltage	380 V		
Current	15.2 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		
Thermal Protection	No Drotostion		40.00		
monnarrieteetten	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6308	Opp Drive End Bearing Size	40 °C 6208		
		<u>_</u>			
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	ВЗ	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	R Side		
Outline Drawing	0213200966	Connection Drawing	8442000085

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$U=\Delta/Y$	f	Р	Ρ	I	n	Т	IE		% EFF at	t_load	ł	PF	at lo	ad	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]
380 Δ	50	7.5	10	15.19	1470	48.47	IE3	-	90.4	90.4	90.4	0.83	0.77	0.65	7.5	2.8	3
Motor type				TCA					gree of		on				IP 55		
Enclosure				TEFC					ounting						IM B3		
Frame Material				Cast Irc					oling me						IC 411		
Frame size				132M				Mc	tor wei	ght - ap	prox.				93		kg
Duty				S1				Gro	oss weig	ht - app	rox.				96		kg kgm²
Voltage variation	n *			± 10%				Mc	Motor inertia						0.0550		
Frequency varia	ation *			± 5%				Loa	Load inertia					Customer to Provide			
Combined varia	tion *			10%				Vib	Vibration level						1.6		mm/s
Design				N				No	ise level	(1mete	er distar	nce fror	n motor				dB(A)
Service factor				1.0				No	of star	ts hot/c	old/Equ	ally spr	ead	2/3/4			
Insulation class				F				Sta	rting me	ethod					DOL		
Ambient tempe	rature			-20 to +	40		°C	Тур	e of cou	upling					Direct		
Temperature ris	se (by i	resistance	e)	80 [Class	B]		К	LR	LR withstand time (hot/cold)						10/20		S
Altitude above	sea lev	el		1000			meter	Dir	Direction of rotation					В	i-directional		
Hazardous area	classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form D	E	
Zone cla	ssifica	tion		NA				Pai	nt shade	e					RAL 5014		
Gas gro	up			NA				Acc	essorie	S							
Temper	ature o	class		NA					Acc	essory -	1				PTC 150°C		
Rotor type			Al	uminum D	ie cast				Acc	essory -	2				-		
Bearing type			A	Anti-frictio	n ball				Acc	essory -	3				-		
DE / NDE bearin	ng		63	08-2Z / 6	208-2Z			Ter	minal b	ox posit	ion			RHS			
Lubrication met	•		C	Greased fo	r life				ximum	•		uit size	1R	1R x 3C x 16mm²/2 x M25 x 1.5			
Type of grease				NA					kiliary te						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 Global IEC Efficiency Europe China GB 18613-2012 Grade 2 --IEC: 60034-30 Standards -_

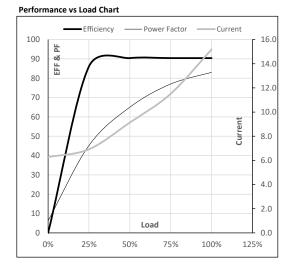
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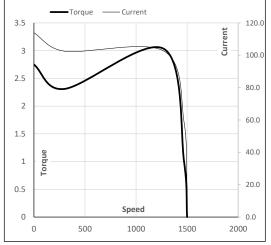
Englagung		A / W	4	D	0			т.	-		Amala	Dutu	Flouetien	Inortio	Maight
Enclosure	U	Δ / Y	T	Р	Р	I.	n	1	1	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	7.5	10.0	15.2	1470	4.94	48.47	IE3	40	S1	1000	0.055	93

Motor Load Data												
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL					
Current	А	6.3	6.9	9.1	11.5	15.2						
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						



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	300	1275	1470	1500						
Current	А	113.9	102.5	58.7	15.2	6.3						
Torque	pu	2.8	2.3	3.0	1	0						





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

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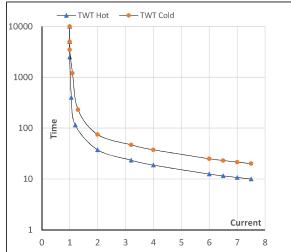
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	7.5	10.0	15.2	1470	4.94	48.47	IE3	40	S1	1000	0.055	93

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	ا ₅	LR
TWT Hot	s	10000	38	26	19	16	13	10
TWT Cold	s	10000	75	50	38	35	24	20
Current	pu	1	2	3	4	5	5.5	7.5

Thermal Characteristics Chart



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

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