PRODUCT INFORMATION PACKET

Model No: TCAP752AF113GAC010 Catalog No: TCAP752AF113GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 80M Frame, TEFC



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Motors



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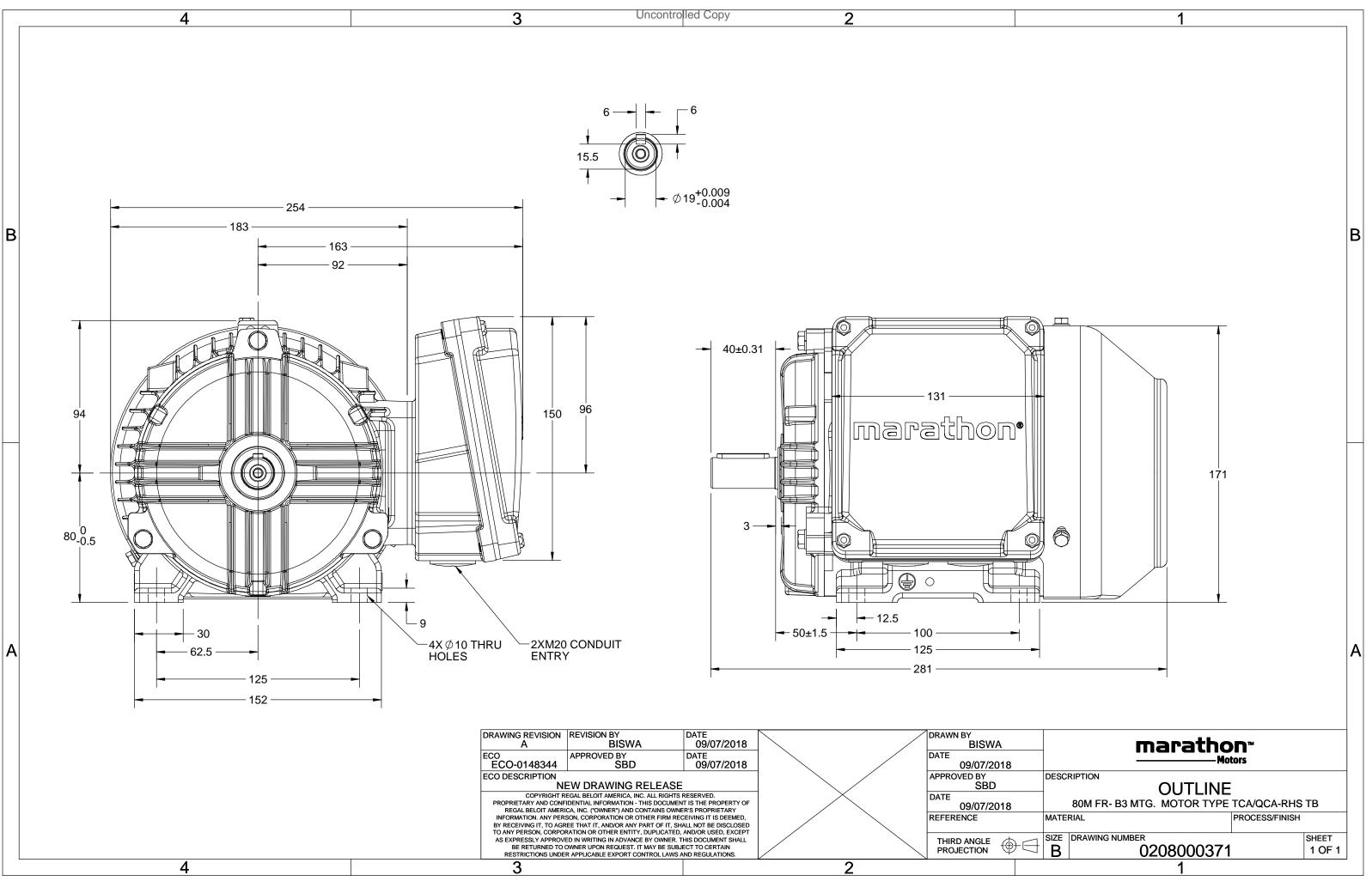
Nameplate Specifications

Output HP	1 Нр	Output KW	0.75 kW
Frequency	50 Hz	Voltage	380 V
Current	1.8 A	Speed	1446 rpm
Service Factor	1	Phase	3
Efficiency	82.5 %	Power Factor	0.75
Duty	S1	Insulation Class	F
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Traine	OUIVI	Eliciosule	Totally Enclosed Fall Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6204	Ambient Temperature Opp Drive End Bearing Size	40 °C 6204

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	2Z-C3	Opp Drive End Bearing	2Z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	281 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0208000371	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t load	k	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]
380	Y	50	0.75	1	1.84	1446	4.92	IE3	-	82.5	82.5	77.6	0.75	0.66	0.51	6.6	3.0	3
			<u> </u>															
Motor	tuno				TCA				Dor	aroo of	protecti	00				IP 55		
Enclosu					TEFC					ounting		011				IM B3		
	Materia	I			Cast Irc	'n				oling me						IC 411		
Frame		1			80M	,,,,				•		aroy				21		kg
Duty	3120				S1				Motor weight - approx. Gross weight - approx.							22		kg
,	e variatio	n *			± 10%					Motor inertia						0.0031		kgm ²
U	ncy varia				± 5%				Load inertia					Custo	omer to Provid	le	KBIII	
	ned varia				10%				Vibration level						1.6		mm/s	
Design					N					Noise level (1meter distance from motor				n motor	.)	54		dB(A)
Service	factor				1.0						ts hot/c				,	2/3/4	(- 1)	
Insulati	ion class				F					rting m		,				DOL		
Ambier	nt tempe	erature			-20 to +	40		°C		be of co						Direct		
Tempe	rature ri	se (by i	resistanc	ce)	80 [Class	B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea lev	el		1000			meter	Dir	ection c	of rotatio	on			В	i-directional		
Hazard	ous area	a classif	fication		NA				Sta	ndard r	otation				Cloc	kwise form DI	Ξ	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature o	class		NA					Aco	essory -	1				PTC 150°C		
Rotor t	уре			Al	uminum D	ie cast				Acc	essory -	2				-		
Bearing	g type			A	Anti-frictio	n ball				Aco	essory -	3				-		
DE / N	DE beari	ng		620	04-2Z / E	204-2Z			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	Greased fo	r life			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 1	L0mm²/2 x M2	0 x 1.5	
Type of	fgrease				NA				Aux	kiliary 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. India Aus/Nz Brazil Efficie Chi E

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

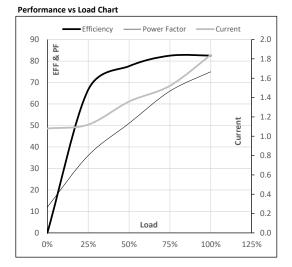
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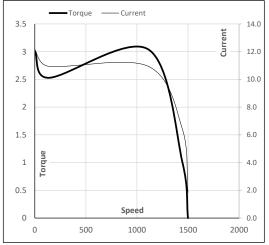
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	0.75	1.0	1.8	1446	0.50	4.92	IE3	40	S1	1000	0.0031	21

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.1	1.1	1.4	1.5	1.8	
Torque	Nm	0.0	1.2	2.4	3.7	4.9	
Speed	r/min	1500	1486	1474	1461	1446	
Efficiency	%	0.0	66.6	77.6	82.5	82.5	
Power Factor	%	12.0	36.0	51.0	66.0	75.0	



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	136	1112	1446	1500						
Current	А	12.2	10.9	6.4	1.8	1.1						
Torque	pu	3.0	2.5	3.0	1	0						





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

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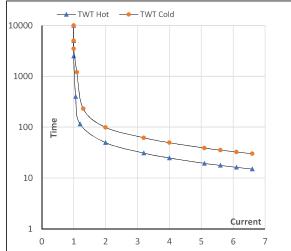
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	0.75	1.0	1.8	1446	0.50	4.92	IE3	40	S1	1000	0.0031	21

Motor Speed Torque Data

Load		FL	I_1	I_2	I_3	I_4	l ₅	LR
TWT Hot	s	10000	50	34	25	22	18	15
TWT Cold	s	10000	99	65	50	42	37	30
Current	pu	1	2	3	4	5	5.5	6.6

Thermal Characteristics Chart



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

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