PRODUCT INFORMATION PACKET

Model No: TCAP751AF111GAC010 Catalog No: TCAP751AF111GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 380 V, 3000 RPM, 80M Frame, TEFC



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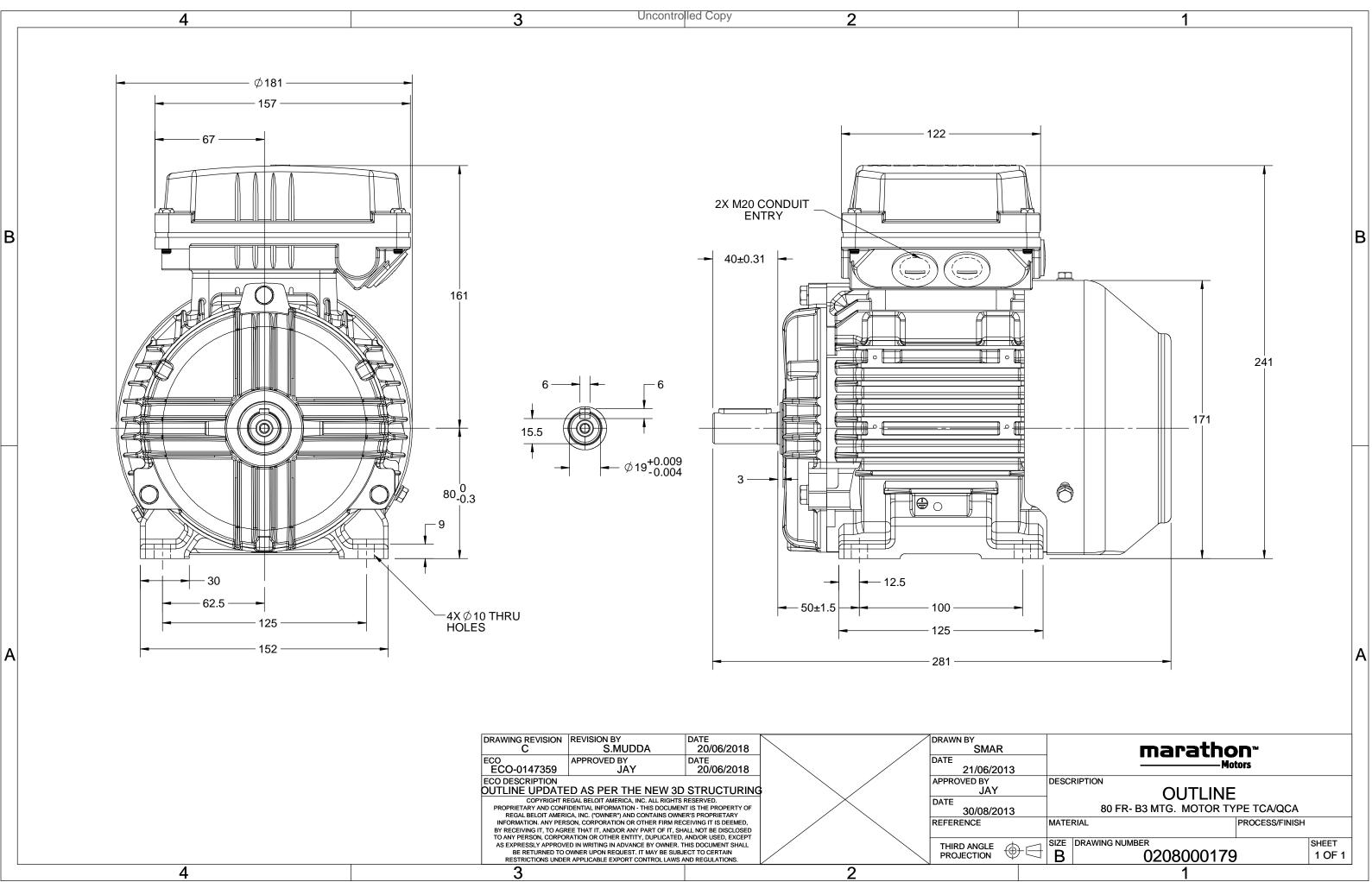
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW		
Frequency	50 Hz	Voltage	380 V		
Current	1.7 A	Speed	2880 rpm		
Service Factor	1	Phase	3		
Efficiency	80.7 %	Power Factor	0.83		
Duty	S1	Insulation Class	F		
Frame	80M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204		
Drive End Bearing Size	6204 No	Opp Drive End Bearing Size CSA	6204 No		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	Тор		
Connection Drawing	8442000085	Outline Drawing	0208000179

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3 of 7





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Model No. TCAP751AF111GAC010

U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t loa	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	1.7	2880	2.47	IE3	-	80.7	80.7	75.6	0.83	0.75	0.61	6.5	3.0	3.3
 																		
Motor	tvne				ТСА				De	gree of	protecti	on				IP 55		
Enclosu	<i>/</i> ·				TEFC					ounting		011				IM B3		
	Materia				Cast Irc	on				oling me						IC 411		
Frame					80M					•	ght - ap	prox.		19 20 0.0013				
Duty					S1						ht - app					20		kg kg
	e variatio	on *			± 10%	,)				Motor inertia						0.0013		kgm ²
	ncy varia				± 5%				Load inertia					Custo	omer to Pro	vide	Ū	
Combir	ned varia	ation *			10%				Vibration level						1.6		mm/s	
Design					Ν				No	Noise level (1meter distance from moto				.)	56		dB(A)	
Service	factor				1.0				No	. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	ion class				F				Sta	irting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	be of co	upling					Direct		
Tempe	rature ri	se (by i	resistanc	e)	80 [Class	5 B]		К	LR	withsta	nd time	(hot/co	ld)			10/20		S
Altitud	e above	sea lev	el		1000			meter	Dir	ection c	of rotation	on			В	i-directiona	l	
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				Aco	cessorie	s							
	Temper	ature o	class		NA					Aco	essory	- 1				PTC 150°C		
Rotor t	уре			Alı	uminum D	ie cast				Aco	cessory -	- 2			-			
Bearing	g type			A	nti-frictio	n ball				Aco	essory	- 3				-		
DE / NI	DE beari	ng		620	04-2Z / 6	5204-2Z			Ter	rminal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	ireased fo	r life			Ma	iximum	cable si	ze/cond	uit size	1R	x 3C x 1	10mm²/2 x l	M20 x 1.5	
Type of	f 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.

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

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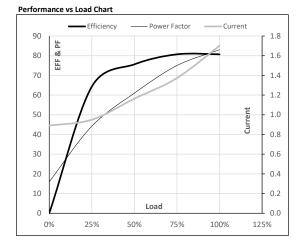


Model No. TCAP751AF111GAC010

Enclosure	U	Δ / Y	f	Р	Р	1	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	1.7	2880	0.25	2.47	IE3	40	S1	1000	0.0013	18
TEFC	380	Y	50	0.75	1.0	1.7	2880	0.25	2.47	IE3	40	S1	1000		0.0013

Motor Load Data

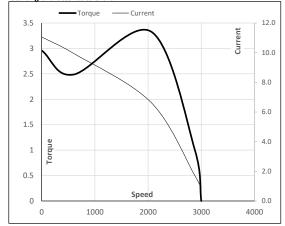
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	0.9	1.0	1.2	1.4	1.7	
Torque	Nm	0.0	0.6	1.2	1.8	2.5	
Speed	r/min	3000	2969	2943	2913	2880	
Efficiency	%	0.0	64.3	75.6	80.7	80.7	
Power Factor	%	16.0	44.2	61.0	75.0	83.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2058	2880	3000	
Current	A	11.1	10.0	6.6	1.7	0.9	
Torque	pu	3.0	2.5	3.3	1	0	

Starting Characteristics Chart



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

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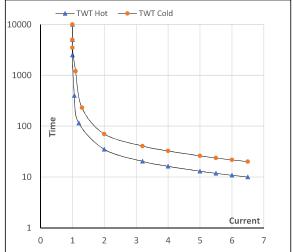
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	0.75	1.0	1.7	2880	0.25	2.47	IE3	40	S1	1000	0.0013	18

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	35	22	16	13	12	10
TWT Cold	s	10000	70	43	33	26	24	20
Current	pu	1	2	3	4	5	5.5	6.5

Thermal Characteristics Chart



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

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