PRODUCT INFORMATION PACKET

Model No: TCAP752AF111GAC010 Catalog No: TCAP752AF111GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 80M Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E







Product Information Packet: Model No: TCAP752AF111GAC010, Catalog No:TCAP752AF111GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 80M Frame, TEFC

marathon®

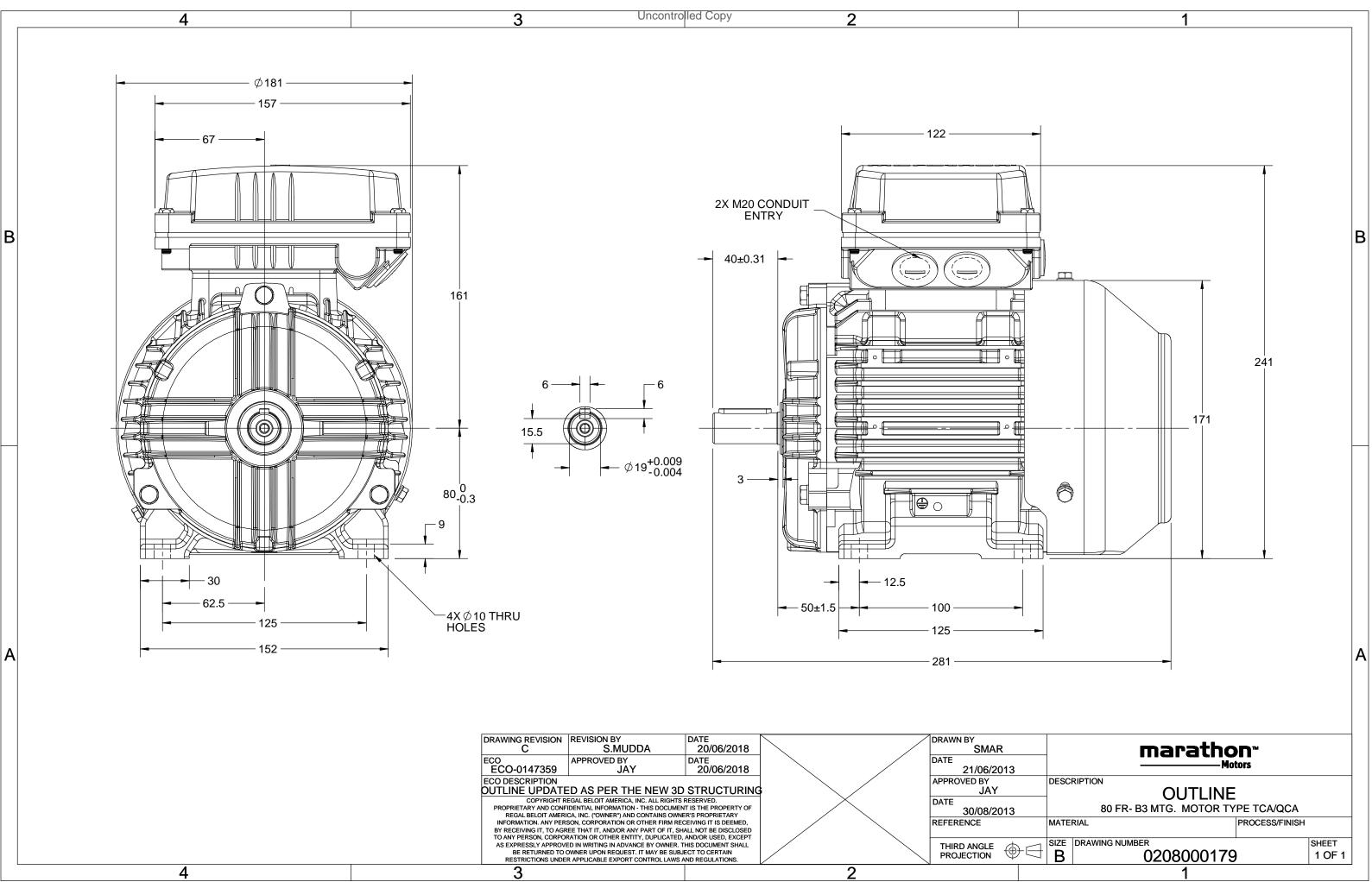
Nameplate Specifications

Output HP	1 Hp	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		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
merman recedion			40 °C		
Drive End Bearing Size	6204	Opp Drive End Bearing Size	40 °C 6204		
		· · ·			
Drive End Bearing Size	6204	Opp Drive End Bearing Size	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	Тор		
Connection Drawing	8442000085	Outline Drawing	0208000179

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:11/30/2022



3 of 7





TerraMAX[®]

Model No. TCAP752AF111GAC010

$U = \Delta / Y = f$	Р	Р	I	n	Т	IE		% EFF a	t load	t	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	3.0
Motor tuno			TCA				Dec	area of	aratacti	~				IP 55		
Motor type Enclosure			TEFC						protecti	on				IM B3		
Frame Material			Cast Irc	'n				Mounting type						IC 411		
Frame size			80M	/11				Cooling method Motor weight - approx.						22		ka
Duty			S1						ht - app					23		kg kg
Voltage variation *			± 10%					tor iner		approx.				0.0031		kgm ²
Frequency variation	*		± 10/8	,									Cust	omer to Provi	do	kgm
Combined variation			± 3%					Load inertia Vibration level					Cusi	1.6	ue	mm/s
			10%				Noise level (1meter distance from mo				n na atau	.)	54		dB(A)	
Design Service factor			1.0						•)	2/3/4		UB(A)
			1.0 F					Io. of starts hot/cold/Equally spread					Z/3/4 DOL			
Insulation class			-20 to +	40		00		rting m					DOL			
Ambient temperatu		1	80 [Class			°C K	71	oe of co	1 0	(h + /	1-11			15/30		-
Temperature rise (b		ce)	1000 1000	, D]					nd time	• •	ia)			i-directional		S
Altitude above sea l			1000 NA			meter			of rotatio	on			-	ckwise form D		
Hazardous area clas			NA					ndard r					CIOC	RAL 5014		
Zone classifie	cation		NA					nt shad						KAL 3014		
Gas group			NA				ACC	essorie		4				PTC 150°C		
Temperature	e class	٨		ie eest					essory -					PTC 150 C		
Rotor type			Aluminum Die cast Anti-friction ball					Accessory - 2 Accessory - 3					-			
Bearing type			:04-2Z / 6				-							TOP		
DE / NDE bearing			Greased fo						ox posit			10	w 20 w 2	10P 10mm²/2 x M	20 - 1 -	
Lubrication method				rine					cable si		luit size	IK	x 3C X .	•	20 X 1.5	
Type of grease			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. Ffficiency Aus/Nz Brazil Global IEC India China Furone

Efficiency	Europe	CIIIIa	india	7105/112	Brazil	GIUDAI IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

marathon®

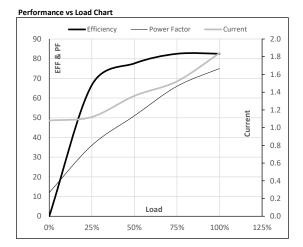


Model No. TCAP752AF111GAC010

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	1.8	1446	0.50	4.92	IE3	40	S1	1000	0.0031	21
1210	360		50	0.75	1.0	1.0	1440	0.50	4.52	ILS	40	31	1000	0.0031	

Motor Load Data

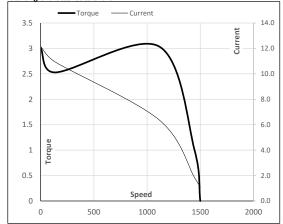
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.1	1.1	1.4	1.5	1.8	
Torque	Nm	0.0	1.2	2.4	3.7	4.9	
Speed	r/min	1500	1486	1474	1461	1446	
Efficiency	%	0.0	66.6	77.6	82.5	82.5	
Power Factor	%	12.0	36.0	51.0	66.0	75.0	



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	

Starting Characteristics Chart



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

Issued By Issued Date

REGAL





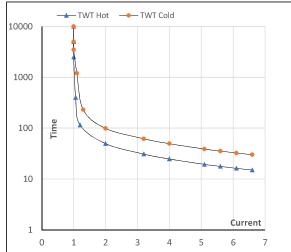
Model No. TCAP752AF111GAC010

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	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	l ₂	l 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

Issued By Issued Date

REGAL