PRODUCT INFORMATION PACKET

Model No: TCAP752A1171GAC010 Catalog No: TCAP752A1171GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 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 (;;RegalRexnord)





Product Information Packet: Model No: TCAP752A1171GAC010, Catalog No:TCAP752A1171GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 80M Frame, TEFC

marathon®

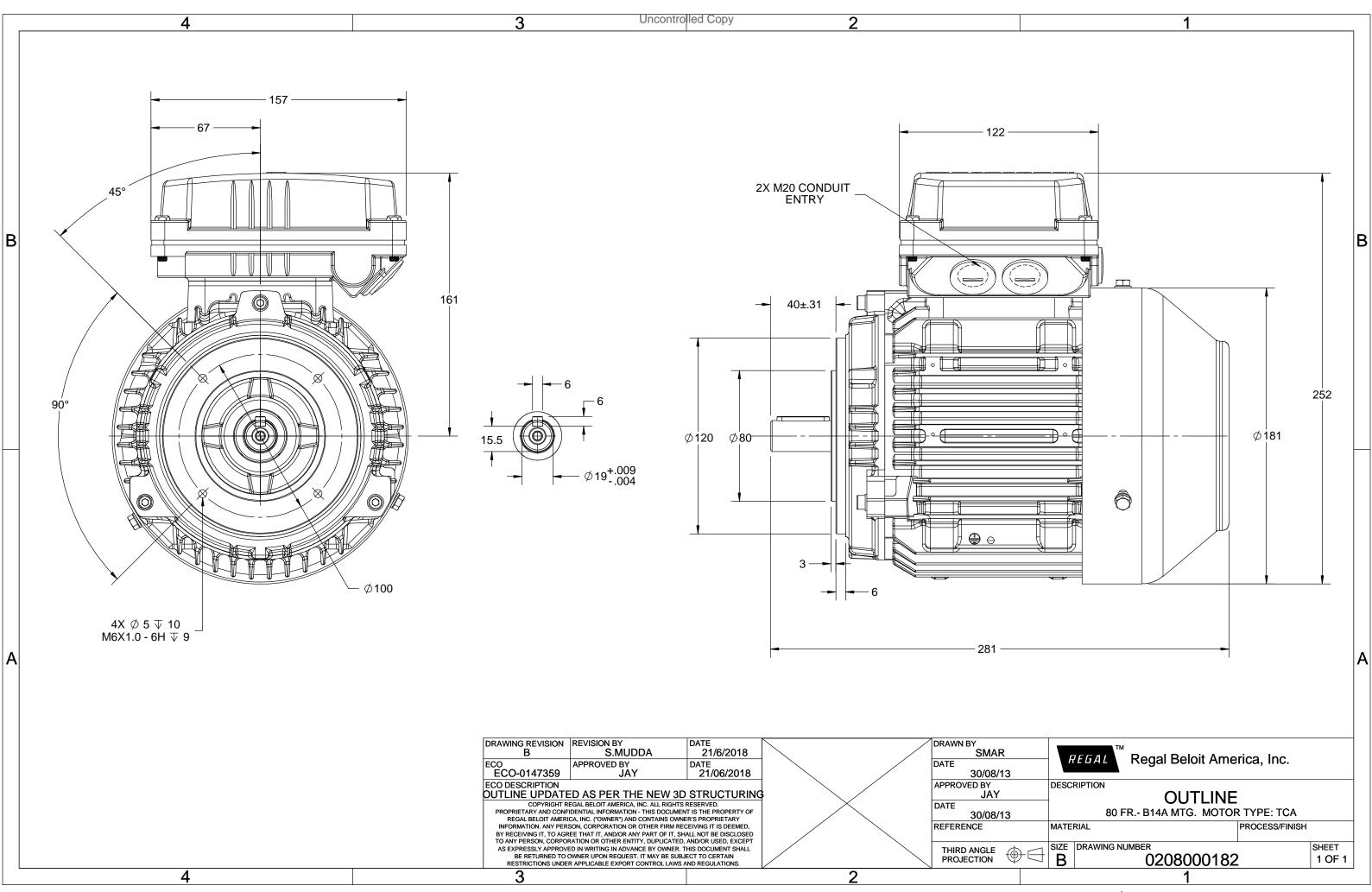
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 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
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
UL	No	CSA	No
CE	Yes	IP Code	55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B14A	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	0208000182

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/01/2022



3 of 7





TerraMAX[®]

Model No. TCAP752A1171GAC010

U	Δ / Y	f	Р	Р	I	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]
400	Y	50	0.75	1	1.7	1446	4.92	IE3	-	82.5	82.5	77.6	0.75	0.66	0.51	6.6	3.0	3.0
			<u> </u>															
Motor	type				TCA				De	gree of	protecti	on				IP 55		
Enclosu	/1				TEFC					ounting		011				IM B14A		
	Materia	I			Cast Ire					oling me						IC 411		
Frame		•			80M					•	ght - ap	prox.				22		kg
Duty	0.20				S1						sht - app					23		kg
	e variatio	on *			± 10%	6				otor iner						0.0031		kgm ²
	ncy varia				± 5%					ad inerti					Cust	omer to Pro	vide	
•	ned varia				10%				Vib	oration l	evel					1.6		mm/s
Design					Ν				No	ise leve	(1met	er distai	nce fror	n motor	-)	54		dB(A)
Service	factor				1.0						ts hot/c					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	resistand	ce)	80 [Clas	s B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea lev	el		1000			meter	Dir	ection c	of rotation	on			В	i-directiona	il .	
Hazard	ous area	a classif	fication		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	cessory -	- 1				PTC 150°C		
Rotor t	ype			Alı	uminum [Die cast				Aco	cessory -	- 2				-		
Bearing	g type			A	nti-frictio	on ball				Aco	cessory -	- 3				-		
DE / NE	DE bearii	ng		620	04-2Z / 6	6204-2Z			Ter	rminal b	ox posit	ion				TOP		
Lubrica	ition me	thod		e	Freased for	or life			Ma	iximum	cable si	ze/cond	luit size	1R	x 3C x 3	10mm²/2 x	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. India Aus/Nz Brazil Efficie Chi E

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



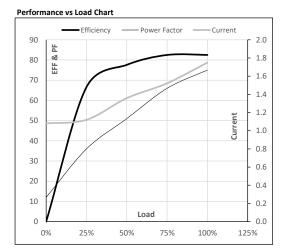


Model No. TCAP752A1171GAC010

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	Y	50	0.75	1.0	1.7	1446	0.50	4.92	IE3	40	S1	1000	0.0031	22

Motor Load Data

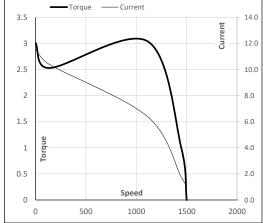
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.1	1.1	1.4	1.5	1.7	
Torque	Nm	0.0	1.2	2.4	3.7	4.9	
Speed	r/min	1500	1486	1474	1461	1446	
Efficiency	%	0.0	66.6	77.6	82.5	82.5	
Power Factor	%	12.0	36.0	51.0	66.0	75.0	
Power Factor	%	12.0	36.0	51.0	66.0	75.0	



Motor Speed Torque Data Load Point Speed r/min

	LR	P-Up	BD	Rated	NL				
/min	0	136	1112	1446	1500		3.5	rorque	
А	11.5	10.4	6.4	1.7	1.1				
pu	3.0	2.5	3.0	1	0		3		
							2.5		
							2		<u> </u>

Starting Characteristics Chart



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

Issued By Issued Date

Current Torque

REGAL





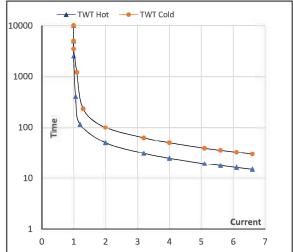
Model No. TCAP752A1171GAC010

Enclosure	U	Δ/Υ	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	400	Y	50	0.75	1.0	1.7	1446	0.50	4.92	IE3	40	S1	1000	0.0031	22

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	۱ 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