PRODUCT INFORMATION PACKET

Model No: TCAP751A1133GAC010 Catalog No: TCAP751A1133GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 80M Frame, TEFC



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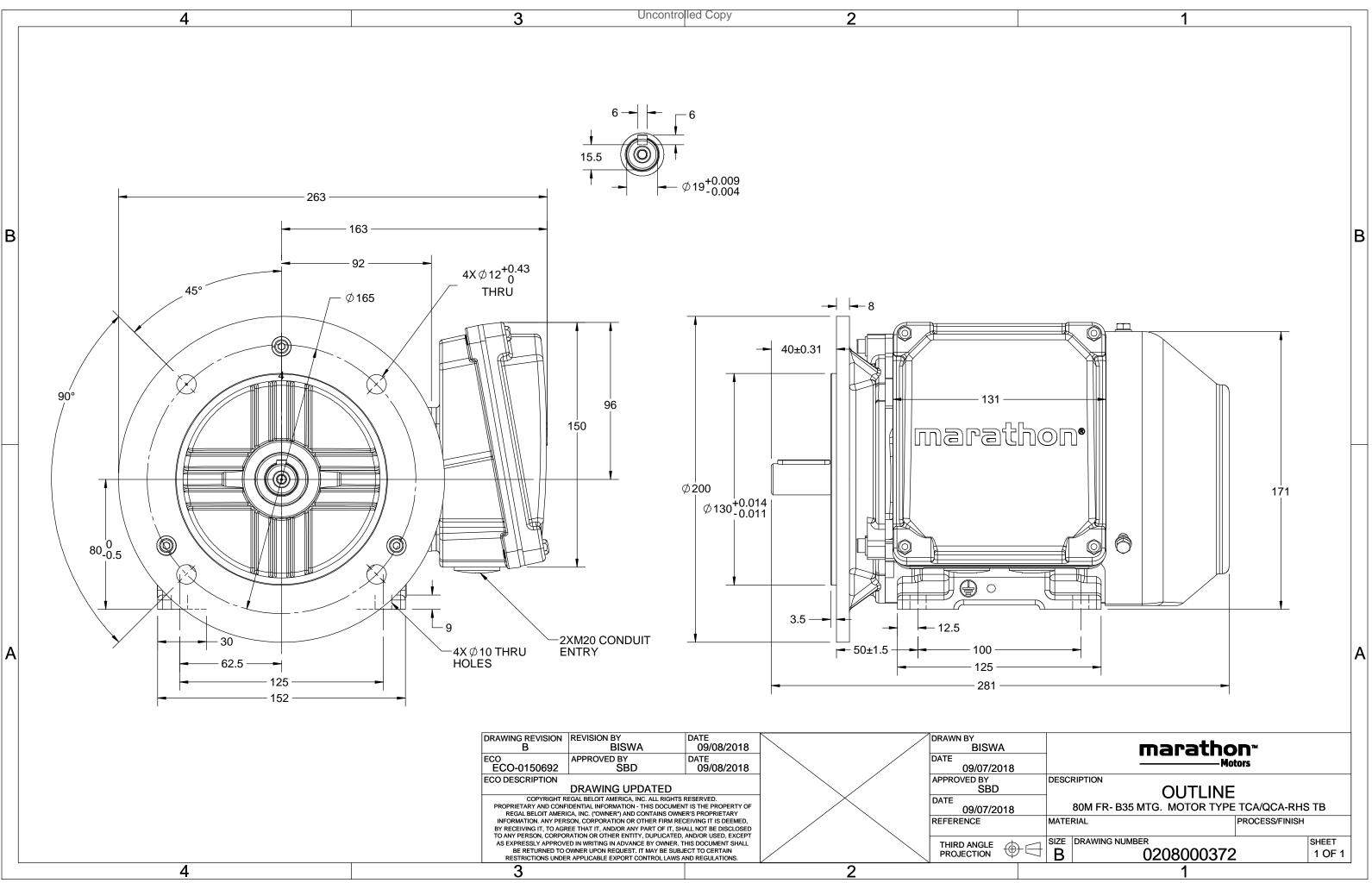
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 V
Current	1.6 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
UL	No	CSA	Νο
CE	Yes	IP Code	55
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	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		
Connection Drawing	8442000085	Outline Drawing	0208000372

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t loa	b	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	1.6	2880	2.47	IE3	-	80.7	80.7	75.6	0.83	0.75	0.61	6.5	3.0	3.3
			I					ļ								I		
Motor					TCA						protecti	on				IP 55		
Enclosu					TEFC					ounting						IM B35		
	Materia				Cast Ir					oling me						IC 411		
Frame	size				80M						ght - ap	•				20		kg
Duty					S1						sht - app	rox.				21		kg
U	e variatio				± 10%	-				otor iner						0.0013		kgm ²
	ncy varia				± 5%				Loa	ad inerti	а				Custo	omer to Pro	vide	
Combir	ned varia	ation *			10%					ration l						1.6		mm/s
Design					N				No	ise leve	l (1met	er dista	nce fror	n motor	-)	56		dB(A)
Service	factor				1.0				No	. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	pe of co	upling					Direct		
Tempe	rature ri	se (by i	resistand	ce)	80 [Clas	s B]		К	LR	withsta	nd time	(hot/co	ld)			10/20		S
Altitude	e above	sea lev	el		1000			meter	Dir	ection o	of rotation	on			В	i-directiona	l	
Hazard	ous area	a classif	fication		NA				Sta	ndard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	s							
	Temper	ature o	class		NA					Ace	cessory -	- 1				PTC 150°C		
Rotor t	ype			Alu	uminum [Die cast				Ace	cessory -	- 2				-		
Bearing	g type			A	nti-frictio	on ball				Ace	cessory -	- 3				-		
DE / NE	DE beari	ng		620)4-2Z / (6204-2Z			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	ireased fo	or life			Ma	iximum	cable si	ze/cond	luit size	1R	x 3C x 1	10mm²/2 x I	M20 x 1.5	
Type of	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





Model No. TCAP751A1133GAC010

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	1.6	2880	0.25	2.47	IE3	40	S1	1000	0.0013	20

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	1.6	
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	

Efficiency ----- Power Factor -Current _ 90 1.8 EFF & PF 80 1.6 70 1.4 1.2 60 Current 50 1.0 40 0.8 0.6 30 20 0.4 10 0.2 Load 0 0.0

50%

75%

100%

125%

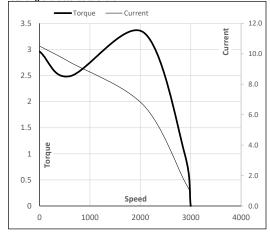
Motor Speed Torque Data Load Point LR P-Up BD Rated NL r/min 0 600 2058 2880 3000 Speed 10.5 9.5 6.6 1.6 0.9 Current А 3.0 2.5 3.3 1 0 Torque pu

Starting Characteristics Chart

25%

0%

Performance vs Load Chart



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

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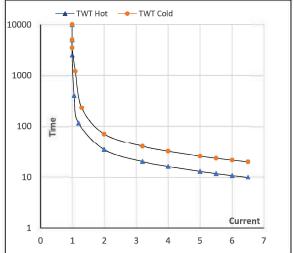
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	0.75	1.0	1.6	2880	0.25	2.47	IE3	40	S1	1000	0.0013	20

Motor Speed Torque Data

Load		FL	I_1	l ₂	I ₃	I_4	1 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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