PRODUCT INFORMATION PACKET

Model No: TCA1P11A1113GAC010 Catalog No: TCA1P11A1113GAC010 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 80M Frame, TEFC



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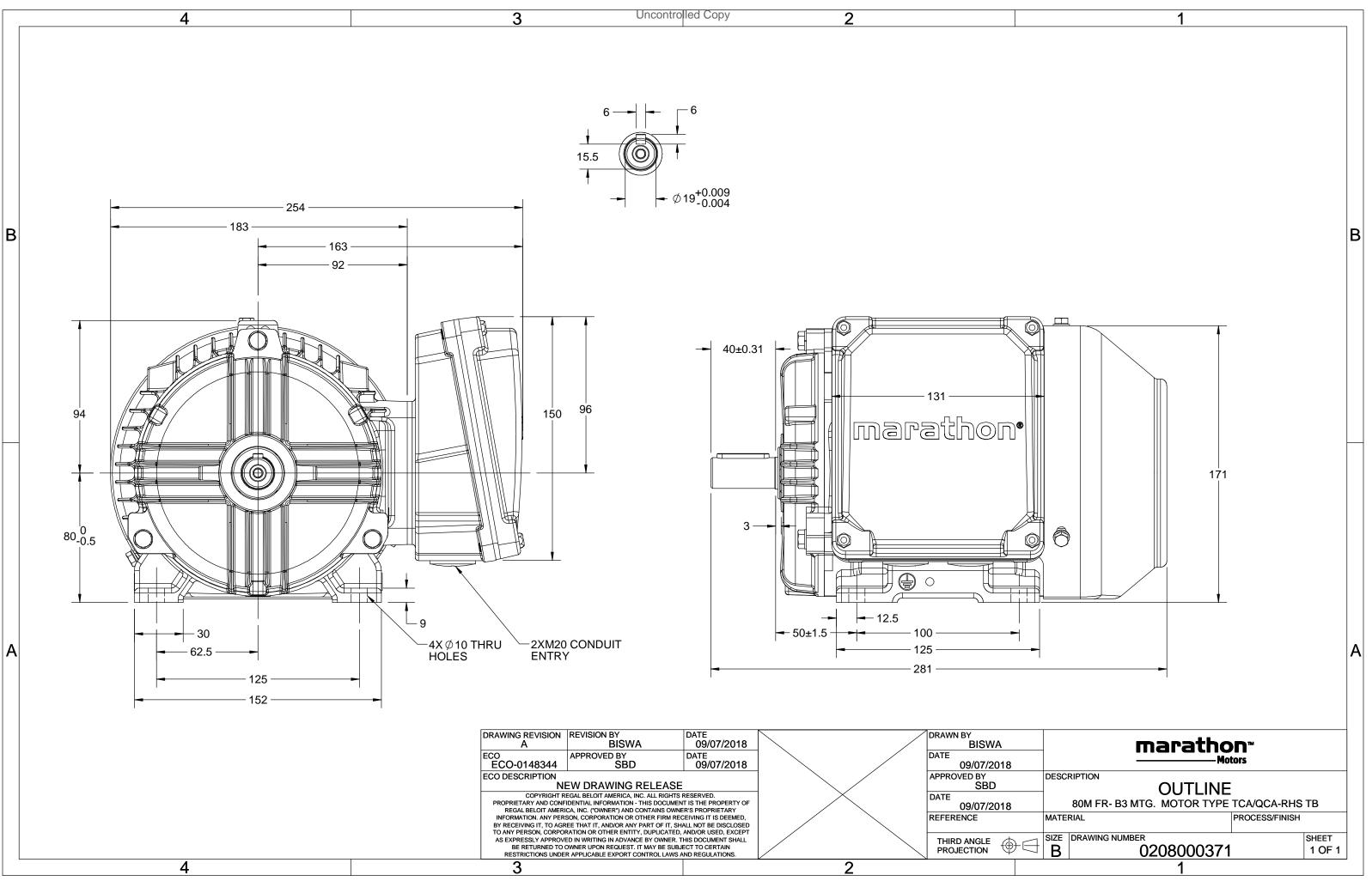
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	2.3 A	Speed	2878 rpm
Service Factor	1	Phase	3
Efficiency	82.7 %	Power Factor	0.84
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

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	R Side		
Outline Drawing	0208000371	Connection Drawing	8442000085

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TerraMAX[®]

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t load	ł	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	1.1	1.5	2.3	2878	3.71	IE3	-	82.7	82.7	79.3	0.84	0.77	0.64	6.8	3.2	3.3
Motor					TCA				Day	area of	arataati					IP 55		
Motor Enclosu	/1				TEFC						protecti	on				IM B3		
		1			Cast Irc					ounting						IC 411		
Frame	Materia				80M	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				oling me						20		ka
	size				51						ght - ap					20		kg
Duty	. verietic	*			± 10%	·					sht - app	rox.				0.0016		kg kgm²
	e variatio				± 10%					otor iner ad inerti					Cust	0.0016 omer to Provid	0	кgm
	ncy varia				± 5%					ration l					Cusio	1.6	e	
		ation *			10%										-)	56		mm/s
Design					1.0						(1mete)	2/3/4		dB(A)
Service					1.0 F						ts hot/c	ola/Equ	ally spr	ead		DOL		
	ion class				-20 to +	40		0.0		rting m						DUL		
	nt tempe							°C	71	be of co								
	rature ri	• •		ce)	80 [Class	-		K			nd time	· ·	ld)			7/15		S
	e above				1000			meter			of rotatio	on				i-directional		
	ous area				NA					ndard r					Cloc	ckwise form DE		
	Zone cla		tion		NA					nt shad						RAL 5014		
	Gas gro	•			NA				Acc	cessorie								
	Temper	ature o	class		NA						cessory -					PTC 150°C		
Rotor t	ype				uminum D						cessory -					-		
Bearing	g type				nti-frictio					Aco	cessory -	3				-		
DE / NI	DE beari	ng			04-2Z / 6				Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	Greased fo	or life			Ma	iximum	cable si	ze/cond	uit size	1R	x 3C x 1	10mm²/2 x M2	0 x 1.5	
Type of	f grease				NA				Aux	xiliary te	erminal	box				NA		

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

 T_A/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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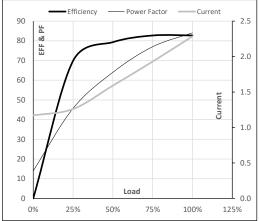


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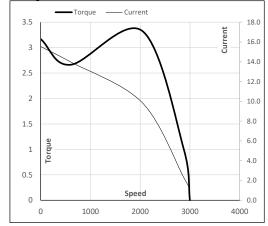
Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.1	1.5	2.3	2878	0.38	3.71	IE3	40	S1	1000	0.0016	20
TEIC	400	Ŷ	50	1.1	1.5	2.3	2878	0.38	3.71	IE3	40	51	1000	0.0016	

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.2	1.3	1.6	1.9	2.3	
Torque	Nm	0.0	0.9	1.8	2.8	3.7	
Speed	r/min	3000	2970	2943	2912	2878	
Efficiency	%	0.0	69.8	79.3	82.7	82.7	
Power Factor	%	14.0	45.7	64.0	77.0	84.0	

Performance vs Load Chart



Starting Characteristics Chart



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

Issued By Issued Date

Motor Speed Torque Data

r/min

А

pu

LR

0

15.5

3.2

P-Up

600

14.0

2.7

BD

2040

9.9

3.3

Rated

2878

2.3

1

NL

3000

1.2

0

Load Point

Speed

Current

Torque

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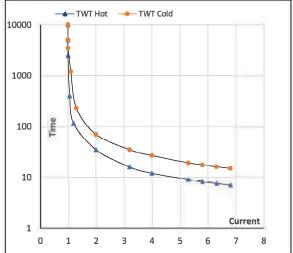
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
4	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Ŷ	50	1.1	1.5	2.3	2878	0.38	3.71	IE3	40	S1	1000	0.0016	20

Motor Speed Torque Data

Load	C .	FL	l <u>1</u>	l₂	l3	I ₄	l ₅	LR
TWT Hot	S	10000	35	20	12	10	9	7
TWT Cold	s	10000	70	40	27	23	19	15
Current	pu	1	2	3	4	5	5.5	6.8

Thermal Characteristics Chart



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

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