PRODUCT INFORMATION PACKET

Model No: TCA0041A1113GAC010 Catalog No: TCA0041A1113GAC010 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 112M Frame, TEFC



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Motors



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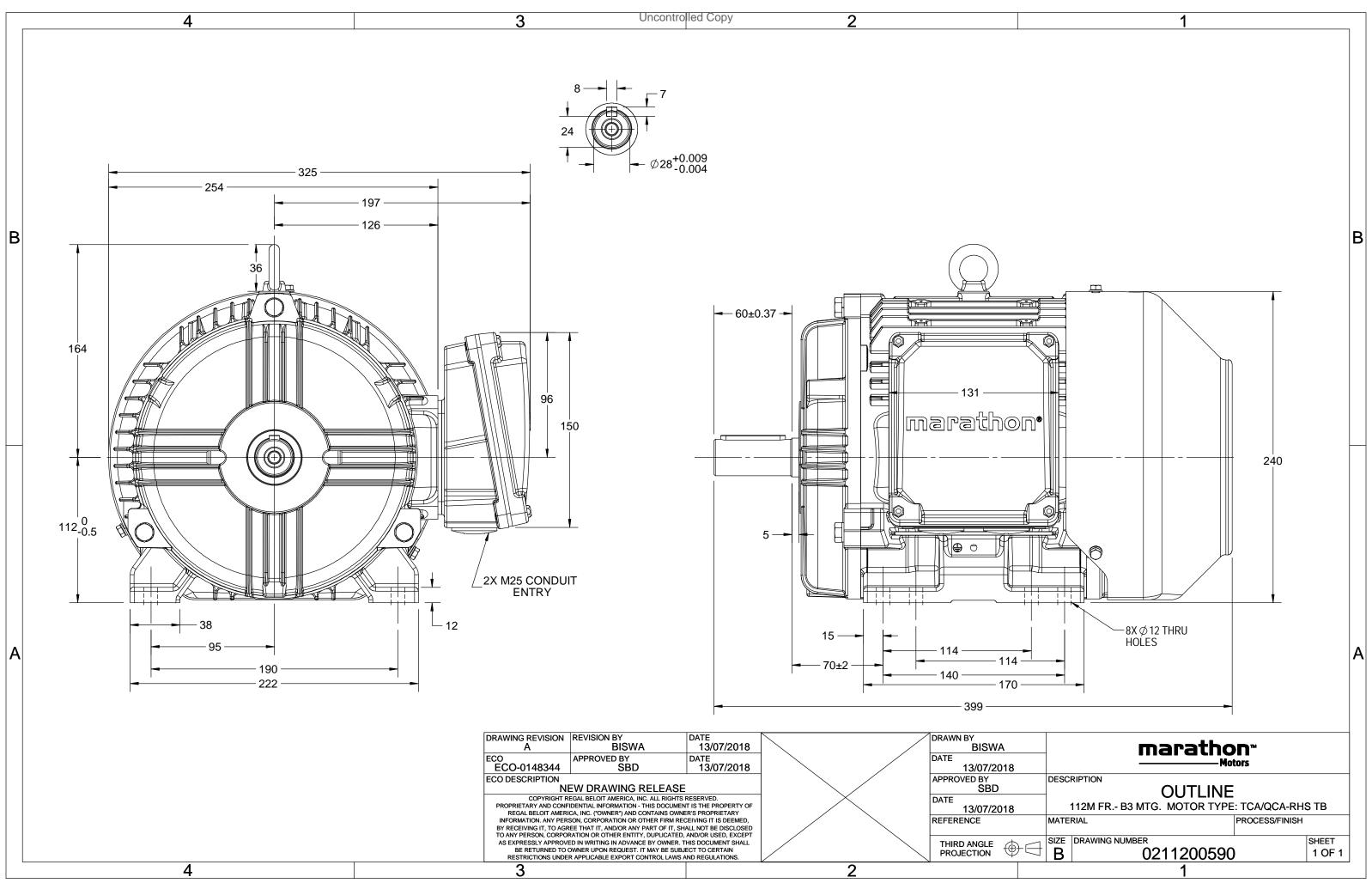
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW		
Frequency	50 Hz	Voltage	400 V		
Current	7.3 A	Speed	2921 rpm		
Service Factor	1	Phase	3		
Efficiency	88.1 %	Power Factor	0.9		
Duty	S1	Insulation Class	F		
Frame	112M	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
			40 °C		
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206		
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206		

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	399 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0211200590	Connection Drawing	8442000085

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Model No. TCA0041A1113GAC010

$U = \Delta / Y = f$	P F	р	n	Т	IE		% EFF a	t_loa	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn [Hz] [k	(W] [h	p] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 Δ 50	4 5.	.5 7.3	2921	13.41	IE3	-	88.1	88.1	88.1	0.9	0.86	0.76	8.6	2.7	3.7
Matartura		ТСА				Day	area of	ereteeti	~ ~				IP 55		
Motor type		TEFC					gree of		on				IP 55		
Enclosure		Cast Ire					ounting						IC 411		
Frame Material Frame size		112N					oling me						47		ka
		51	1				otor wei						50		kg
Duty		± 10%	(oss weig otor iner		iox.				0.0101		kg
Voltage variation *		± 107					id inerti					Custo	omer to Provi	40	kgm ²
Frequency variation * Combined variation *		10%					ration l					Cusii	1.6	JE	
		10% N								6		4	64		mm/s
Design Service factor		1.0									n motor)	2/3/4		dB(A)
		1.0 F					of star		ola/Equ	ally spr	ead		Z/ S/4 DOL		
Insulation class		-20 to +	40		0.0		rting m						Direct		
Ambient temperature					°C		be of co		11	1.15			7/15		
Temperature rise (by resi	stance)	80 [Clas: 1000	-		K		withsta		· ·	10)			i-directional		S
Altitude above sea level	•	1000 NA			meter		ection c		on				ckwise form D	F	
Hazardous area classificat		NA					ndard r					CIOC	RAL 5014	E	
Zone classification	า	NA					nt shad						KAL 5014		
Gas group		NA				Acc	essorie						PTC 150°C		
Temperature class	S	Aluminum [N:+					essory					PTC 150 C		
Rotor type		Anti-frictic						essory					-		
Bearing type								essory					-		
DE / NDE bearing		6306-2Z / 6					minal b				10		RHS		
Lubrication method		Greased fo	or inte				ximum		-	luit size	IK	x 3C X 1	16mm²/2 x M	25 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. 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





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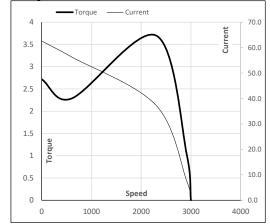
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	4	5.5	7.3	2921	1.37	13.41	IE3	40	S1	1000	0.0101	47
-	400	-	50	-	5.5	7.5	2521	1.57	13.41	125	40	51	1000	0.0101	

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.7	3.2	4.4	5.8	7.3	
Torque	Nm	0.0	3.3	6.6	10.0	13.4	
Speed	r/min	3000	2981	2962	2943	2921	
Efficiency	%	0.0	82.9	88.1	88.1	88.1	
Power Factor	%	10.2	56.0	76.0	86.0	90.0	

Efficiency — Power Factor _ 100 8.0 EFF & PF 90 7.0 80 6.0 70 5.0 60 Current 50 4.0 40 3.0 30 2.0 20 1.0 10 Load 0 0.0 0% 25% 50% 75% 100% 125%

Starting Characteristics Chart

Performance vs Load Chart



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

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Motor Speed Torque Data

r/min

А

pu

LR

0

62.6

2.7

P-Up

600

56.4

2.3

BD

2301

37.3

3.7

Rated

2921

7.3

1

NL

3000

2.7

0

Load Point

Speed

Current

Torque

REGAL





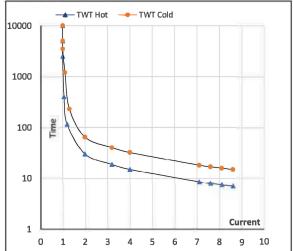
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
1	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	4	5.5	7.3	2921	1.37	13.41	IE3	40	S1	1000	0.0101	47

Motor Speed Torque Data

Load	<i>C</i> .	FL	l ₁	l2	l ₃	I ₄	ا5	LR
TWT Hot	S	10000	30	22	15	14	12	7
TWT Cold	S	10000	65	45	33	30	28	15
Current	pu	1	2	3	4	5	5.5	8.6

Thermal Characteristics Chart



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

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