PRODUCT INFORMATION PACKET

Model No: TCA0111A1113GAC010 Catalog No: TCA0111A1113GAC010 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 160M Frame, TEFC



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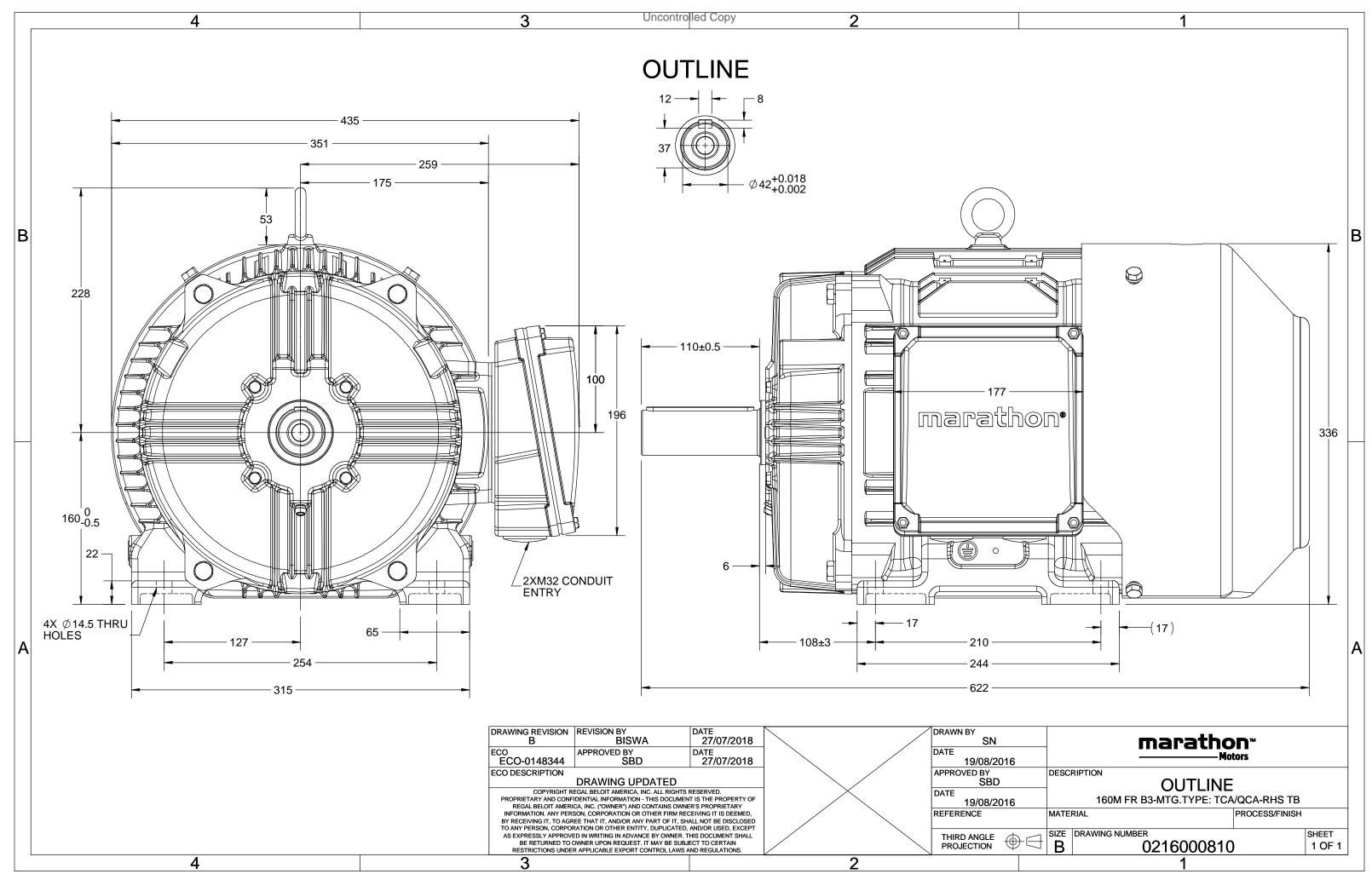
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	19.6 A	Speed	2955 rpm
Service Factor	1	Phase	3
Efficiency	91.2 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	No	CSA	No
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	B3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	622 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0216000810	Connection Drawing	8442000085

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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	Δ	50	11	15	19.6	2955	36.15	IE3	-	91.2	91.2	89.7	0.89	0.84	0.75	7.9	2.3	3.7
Motor	tyne				ТСА				De	aree of	protecti	on				IP 55		
Enclosu	/ .				TEFC					ounting		011				IM B3		
	Material	1			Cast Irc	n				oling me						IC 411		
Frame					160M	1				•	ght - ap	prox.				135		kg
Duty					S1						ght - app					155		kg
•	e variatio	on *			± 10%	5				tor ine						0.0626		kgm ²
	ncy varia				± 5%				Loa	id inerti	a				Cust	omer to Pro	vide	0
Combir	ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				No	ise leve	l (1met	er dista	nce fror	n motor	.)	71		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	e of co	upling					Direct		
Temper	rature ri	se (by i	resistanc	e)	80 [Class	5 B]		К	LR	withsta	nd time	(hot/co	ld)			10/20		S
Altitude	e above	sea lev	el		1000			meter	Dir	ection o	of rotati	on			В	i-directiona	al	
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Clo	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					Ace	cessory	- 1				PTC 150°C		
Rotor ty	ype			Alı	uminum D	ie cast				Ace	cessory	- 2				-		
Bearing	g type			A	nti-frictio	n ball				Ace	cessory	- 3				-		
DE / ND	DE bearii	ng		630)9-2Z / 6	5209-2Z			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	ireased fo	r life			Ma	ximum	cable si	ze/cond	luit size	1R	x 3C x 3	35mm²/2 X	M32 x 1.5	
Type of	grease				NA				Au	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

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





Model No. TCA0111A1113GAC010

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	11	15.0	19.6	2955	3.69	36.15	IE3	40	S1	1000	0.0626	135

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	7.3	8.7	12.1	15.8	19.6	
Torque	Nm	0.0	8.9	17.9	27.0	36.1	
Speed	r/min	3000	2989	2978	2967	2955	
Efficiency	%	0.0	84.3	89.7	91.2	91.2	
Power Factor	%	9.5	55.2	75.0	84.0	89.0	

Performance vs Load Chart Efficiency — Power Factor -100 25.0 EFF & PF 90 80 20.0 70 60 15.0 Current 50 40 10.0 30 20 5.0 10 Load 0 0.0 0% 25% 50% 75% 100% 125%

Motor Speed Torque Data Load Point LR P-Up BD Rated NL 2641 r/min 0 600 2955 3000 Speed А 154.5 139.1 94.0 19.6 7.3 Current

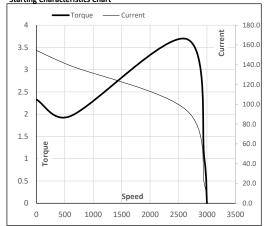
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NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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Torque

pu

2.3

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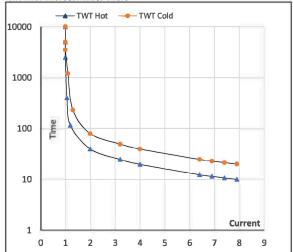
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Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 4	400	Δ	50	11	15.0	19.6	2955	3.69	36.15	IE3	40	S1	1000	0.0626	135

Motor Speed Torque Data

Load	- C.	FL	l ₁	l ₂	l ₃	I ₄	ا5	LR
TWT Hot	s	10000	40	26	20	17	15	10
TWT Cold	s	10000	79	52	40	34	30	20
Current	pu	1	2	3	4	5	5.5	7.9

Thermal Characteristics Chart



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

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