### **PRODUCT INFORMATION PACKET**

Model No: QCA0113A1111GAA001 Catalog No: QCA0113A1111GAA001 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 160L Frame, TEFC



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Motors



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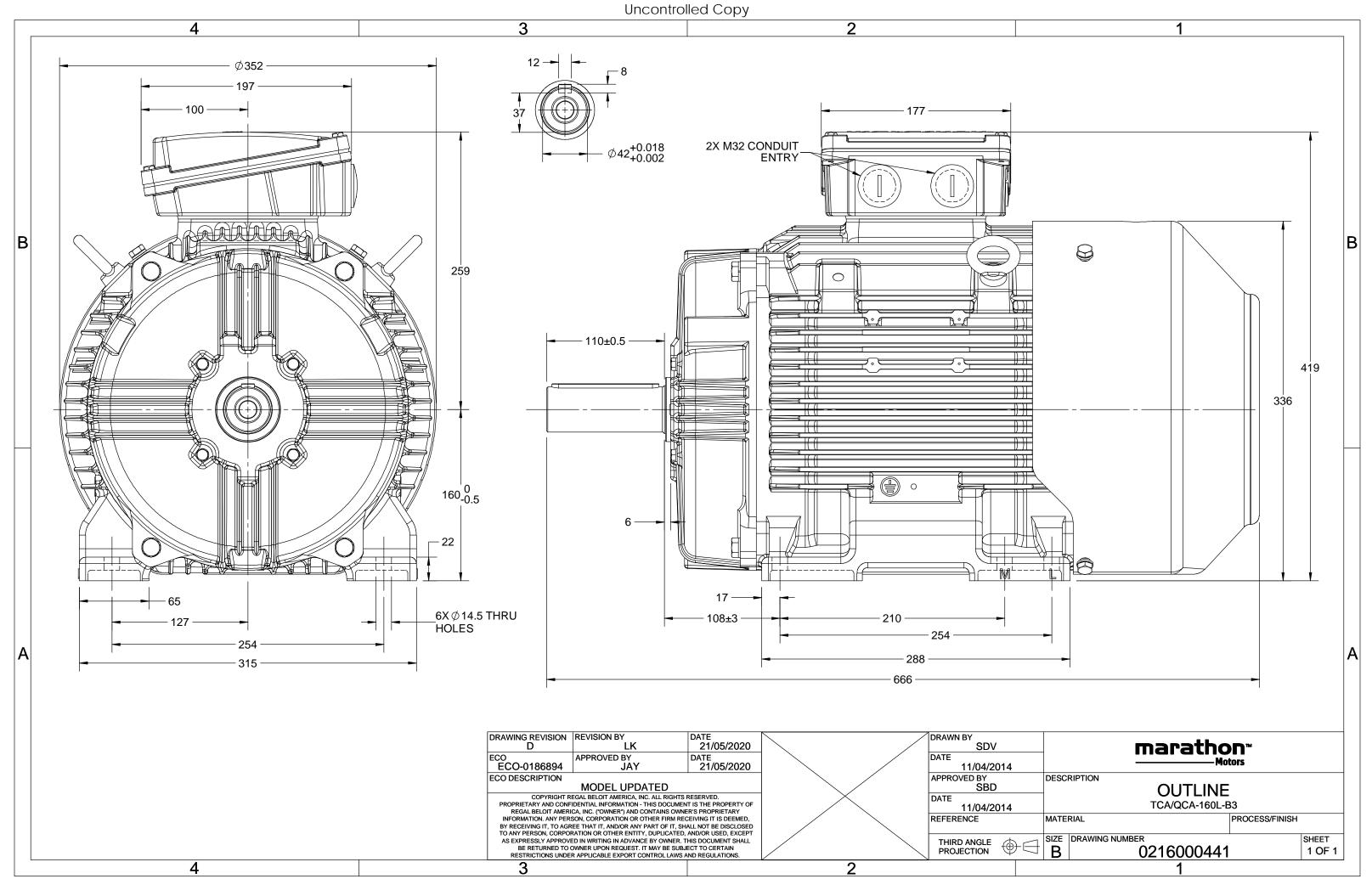
#### Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	22.9 A	Speed	984 rpm
Service Factor	1	Phase	3
Efficiency	92.3 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	160L No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6309	Ambient Temperature Opp Drive End Bearing Size	40 °C 6209

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	666 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0216000441	Connection Drawing	8442000085

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# **TerraMAX**<sup>®</sup>

Model No. QCA0113A1111GAA001

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE	ç	% EFF a	t load	ł	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(∨)	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	22.6	984	108.63	IE4	-	92.3	92.3	89.7	0.76	0.67	0.53	7.7	3.1	3.5
Matar	huna				QCA				Dee	waa af						IP 55		
Motor 1					TEFC						protecti	on				IM B3		
Enclosu					Cast Ire					unting †						IC 411		
	Material	I								Cooling method Motor weight - approx.								
Frame s	size				160L											190		kg
Duty					S1						ht - app	rox.				210		kg
U	e variatic				± 10%				Motor inertia					0.2398			kgm <sup>2</sup>	
•	ncy varia				± 5%				Load inertia				Custo	omer to Provid	e			
Combin	ned varia	ation *			10%			Vibration level								2.2		mm/s
Design					N				Noi	se level	(1mete	er distar	ice fron	n motor	)	61		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F				Star	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling					Direct			
Temper	rature ri	se (by r	esistanc	e)	80 [ Clas	s B ]		К	LR v	vithsta	nd time	(hot/co	ld)		15/30			S
Altitude	above :	sea lev	el		1000			meter	Dire	ection c	of rotatio	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Star	ndard r	otation				Cloc	ckwise form DE		
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	rature c	lass		NA					Acc	cessory -	· 1				PTC 150°C		
Rotor to	ype			Alı	Aluminum Die cast				Accessory - 2					-				
Bearing	g type			А	nti-frictic	n ball				Acc	cessory -	- 3				-		
DE / NC	) DE bearir	ng		63	09-2Z / 6	209-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion met	thod		Ģ	Greased fo	or life					cable siz		uit size	1R	x 3C x 3	35mm²/2 X M3	2 x 1.5	
Type of	grease				NA						erminal l					NA		

 $I_{\text{A}}/I_{\text{N}}$  - Locked Rotor Current / Rated Current

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

 $T_{\text{A}}/T_{\text{N}}$  - 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 combined variation are as per IEC60034-1

Technical da	Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.										
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC					
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2	- 004	IEC:60034-30-1					

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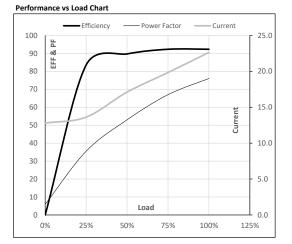


Model No. QCA0113A1111GAA001

Enclosure	U	$\Delta / Y$	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 <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	11	15	22.6	984	11.08	108.63	IE4	40	S1	1000	0.2398	190

#### Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	12.8	13.6	17.1	19.8	22.6	
Nm	0.0	26.8	53.9	81.1	108.6	
r/min	1000	996	992	988	984	
%	0.0	83.5	89.7	92.3	92.3	
%	5.9	35.5	53.0	67.0	76.0	
	Nm /min %	Nm 0.0   /min 1000   % 0.0	Nm 0.0 26.8   /min 1000 996   % 0.0 83.5	Nm 0.0 26.8 53.9   /min 1000 996 992   % 0.0 83.5 89.7	Nm 0.0 26.8 53.9 81.1   /min 1000 996 992 988   % 0.0 83.5 89.7 92.3	Nm 0.0 26.8 53.9 81.1 108.6   /min 1000 996 992 988 984   % 0.0 83.5 89.7 92.3 92.3



Motor Spee	ed Torque Da	ta					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	866	984	1000	
Current	А	174.3	156.9	99.4	22.6	12.8	

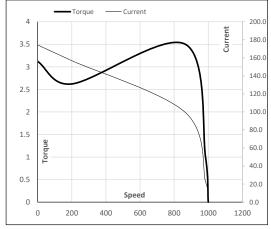
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0

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Torque pu 3.1 2.6





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

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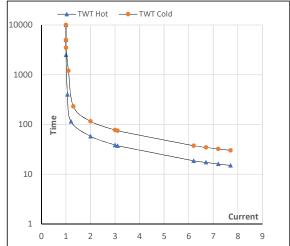
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Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	11	15	22.6	984	11.08	108.63	IE4	40	S1	1000	0.2398	190

#### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	58	39	30	25	20	15
TWT Cold	s	10000	116	77	60	45	40	30
Current	ри	1	2	3	4	5	5.5	7.7

#### Thermal Characteristics Chart



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

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