## **PRODUCT INFORMATION PACKET**

Model No: QCA0303A1133GAA001 Catalog No: QCA0303A1133GAA001 TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 225M Frame, TEFC



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Motors

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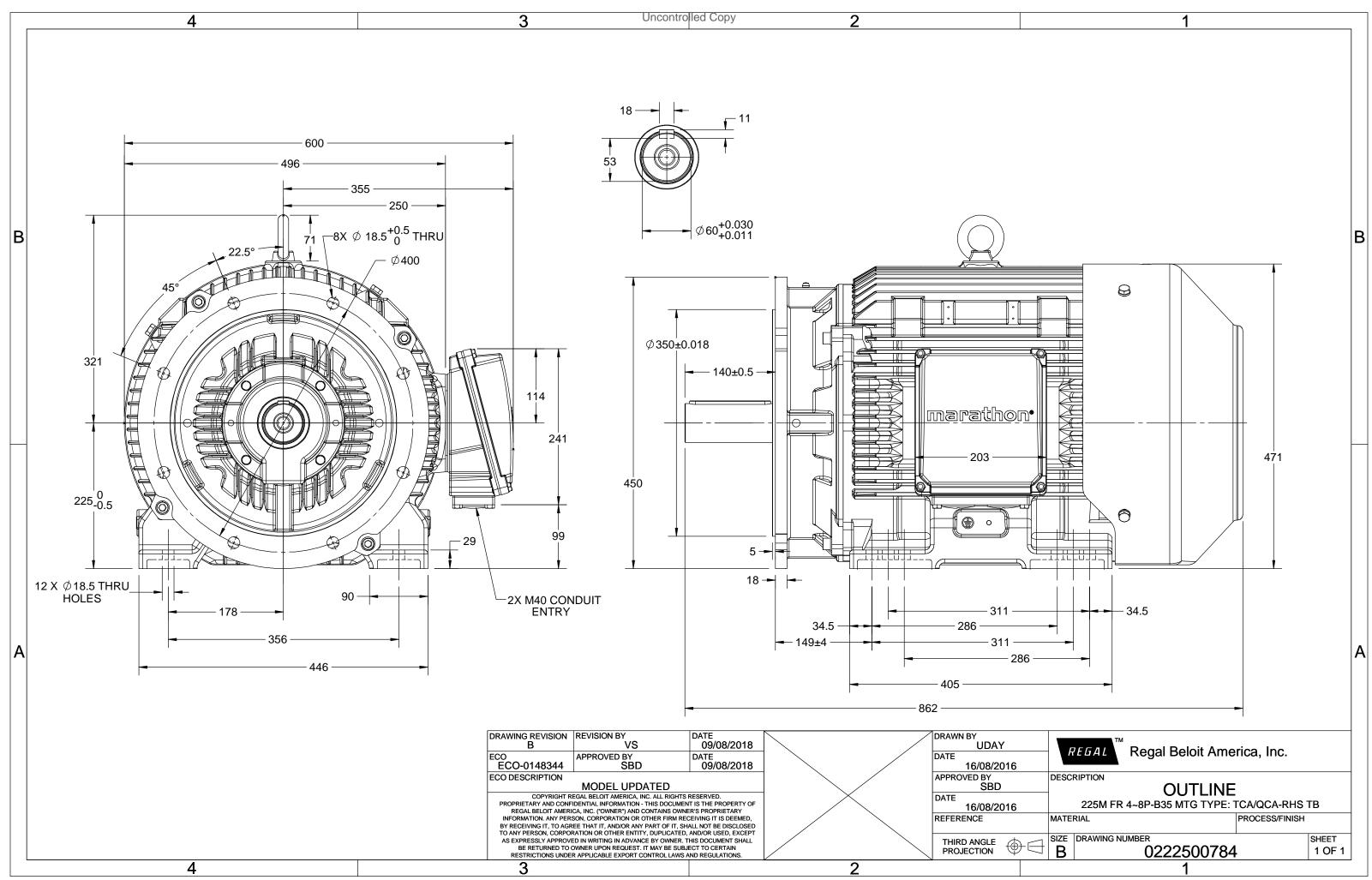
### Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400 V
Current	57.1 A	Speed	989 rpm
Service Factor	1	Phase	3
Efficiency	94.2 %	Power Factor	0.81
Duty	S1	Insulation Class	F
Frame	225M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213
UL	No	CSA	No
UL CE	No Yes	CSA IP Code	No 55

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	862 mm	Frame Length	425 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0222500784

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# **TerraMAX**<sup>®</sup>

Model No. QCA0303A1133GAA001

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE	9	% EFF at	t load	d	PF	at lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(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	30	40	56.7	989	287.95	IE4	-	94.2	94.2	92.4	0.81	0.75	0.62	8	2.7	3.5
Motor	type				QCA				Dec	ree of r	orotecti	on				IP 55		
Enclos					TEFC					unting t		011				IM B35		
	Materia	1			Cast Irc					ling me						IC 411		
Frame					2251					•	ght - ap	nrox				460		kg
Duty	5120				S1						ht - app					490		kg
	e variatio	n *			± 10%	5				tor iner		10.				1.2532		kgm²
	ency varia				± 5%					d inerti					Cust	omer to Pro	vide	NB111
•	ned varia				10%					ration le						2.2		mm/s
Design					N							er distar	nce fron	n motor	)	63		dB(A)
	factor				1.0						ts hot/c				/	2/3/4		00(71)
	ion class				F					rting me		0.07 290	any opi	cuu		DOL		
	nt tempe				-20 to +	40		°C		•						Direct		
	rature ri		esistanc	e)	80 [ Class	5 B ]		К		Type of coupling LR withstand time (hot/cold)						15/30		s
	e above	• •		- /	1000			meter		Direction of rotation					В	Bi-directional		
Hazard	lous area	a classif	ication		NA				Sta	Standard rotation					Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pair	Paint shade						RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper		lass		NA					Acc	cessory -	- 1				PTC 150°C		
Rotor				Al	uminum D	)ie cast					cessory					-		
Bearin	/ .			ŀ	Anti-frictio	n ball					essory					-		
	0 11 -										- /							

6313 C3 / 6213 C3 DE / NDE bearing Regreasable Lubrication method CHEVRON SRI-2 or Equivalent Type of grease

Paint shade	RAL 5014
Accessories	
Accessory - 1	PTC 150°C
Accessory - 2	-
Accessory - 3	-
Terminal box position	RHS
Maximum cable size/conduit size	1R x 3C x 50mm²/2 x M40 x 1.5
Auxiliary terminal box	NA

 $I_A/I_N$  - Locked Rotor Current / Rated Current  $T_{\text{A}}/T_{\text{N}}$  - Locked Rotor Torque / Rated Torque  $T_{\rm K}/T_{\rm N}$  - Breakdown 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	ta are subject to chang	ge. There may be slight v	variations between calculated	l values in this datash	eet and the motor nam	eplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2	- 2004	IEC 60034-30-1

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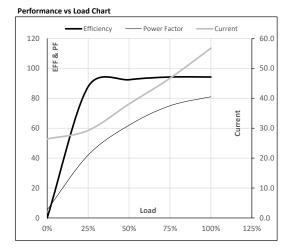


Model No. QCA0303A1133GAA001

<b>1 1</b>													$\Delta / I$	0	Enclosure
[kg]	[kg-m <sup>2</sup> ]	[m]		[°C]	Class	[Nm]	[kgm]	[RPM]	[A]	[hp]	[kW]	[Hz]	Conn	(∨)	
460	1.2532	1000	S1	40	IE4	287.95	29.36	989	56.7	40	30	50	Δ	400	TEFC
	1.2532	1000	S1	40	IE4	287.95	29.36	989	56.7	40	30	50	Δ	400	TEFC

#### Motor Load Data

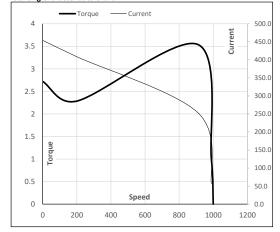
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	26.4	29.2	38.1	46.7	56.7	
Torque	Nm	0.0	71.4	143.2	215.4	287.9	
Speed	r/min	1000	997	995	992	989	
Efficiency	%	0.0	87.7	92.4	94.2	94.2	
Power Factor	%	5.4	42.0	62.0	75.0	81.0	



#### Motor Speed Torque Data

motor opec	a lordae ba						
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	910	989	1000	
Current	А	454.0	408.6	253.5	56.7	26.4	
Torque	pu	2.7	2.3	3.5	1	0	

Starting Characteristics Chart



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

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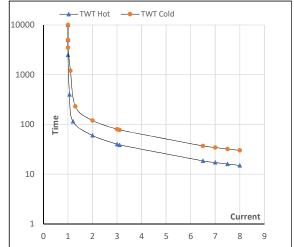
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Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	30	40	56.7	989	29.36	287.95	IE4	40	S1	1000	1.2532	460

#### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	I <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	60	40	30	25	20	15
TWT Cold	s	10000	120	80	60	45	40	30
Current	ри	1	2	3	4	5	5.5	8

#### Thermal Characteristics Chart



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

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