## **PRODUCT INFORMATION PACKET**

Model No: QCAP753A1113GAA001 Catalog No: QCAP753A1113GAA001 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 90S Frame, TEFC



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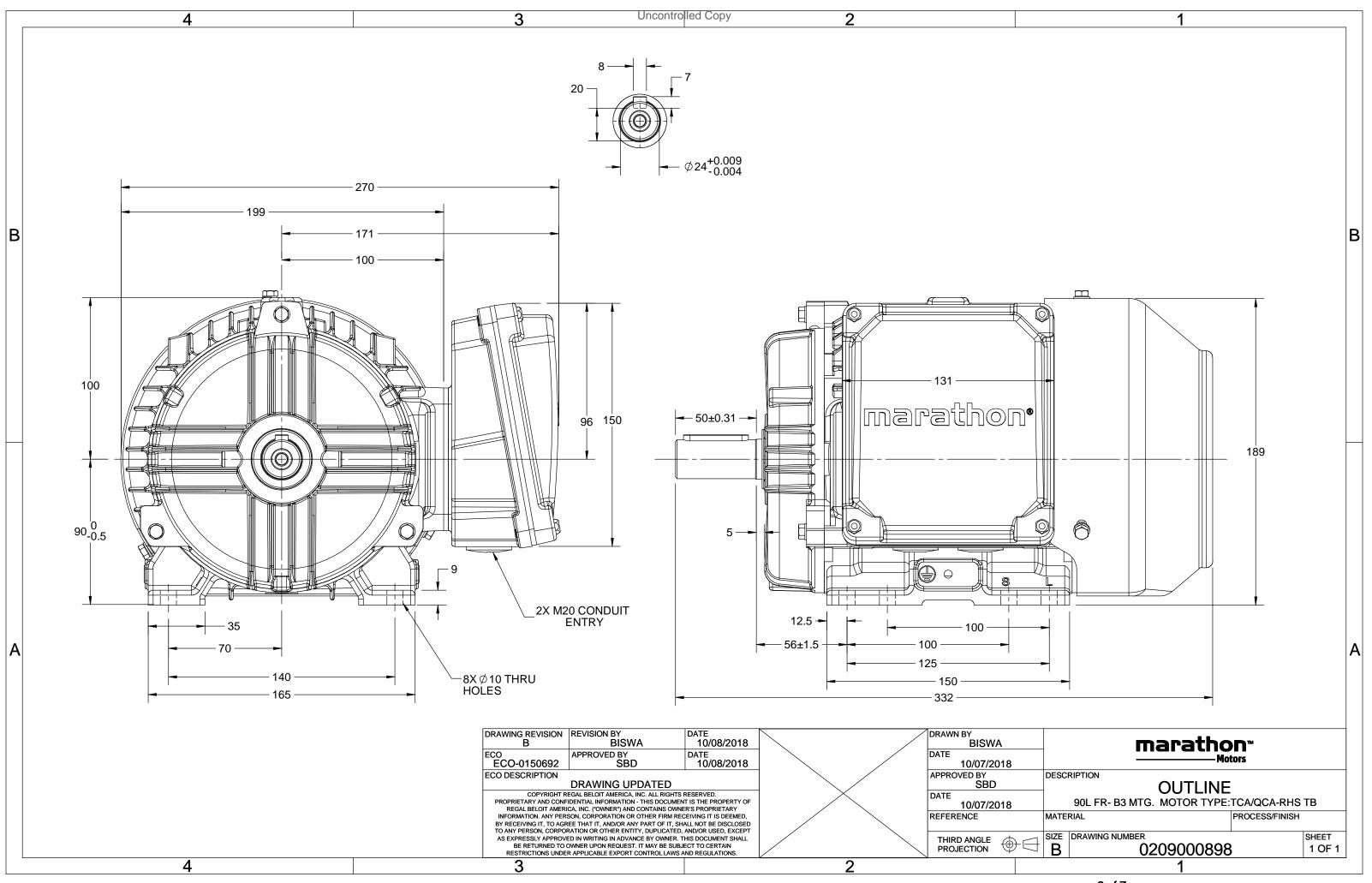
## Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 V
Current	1.9 A	Speed	949 rpm
Service Factor	1	Phase	3
Efficiency	82.7 %	Power Factor	0.69
Duty	S1	Insulation Class	F
Frame	90S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE4

## **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	332 mm	Frame Length	153 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0209000898	Connection Drawing	8442000085

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# **TerraMAX**<sup>®</sup>

### Model No. QCAP753A1113GAA001

U	$\Delta / Y$	f	Р	Р	I	n	т	IE		% EFF	at loa	d	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	0.75	1.0	1.9	949	7.53	IE4	-	82.7	82.7	78.8	0.69	0.58	0.44	5.3	3.0	3.2
Motor	type				QCA				Der	tree of	protectio	n				IP 55		
Enclosi	<i>/</i> ·				TEFC					unting		511				IM B3		
	Material				Cast In	•				oling me						IC 411		
Frame					905					•		orox.				29.0		k
Duty	0.20				S1				Motor weight - approx. Gross weight - approx.						30.0			
,	e variatio	n *			± 10%	6			Motor inertia						0.0052			
	ncy varia				± 5%	D			Load inertia						Custo	omer to Provi	de	kgm
Combii	, ned varia	tion *			10%				Vibration level							1.6		mm/
Design					Ν				Noise level ( 1meter distance from mo				motor)		51		dB(A	
Service	factor				1.0				No	. of star	ts hot/co	old/Equal	ly sprea	d		2/3/4		
nsulat	ion class				F				Sta	rting m	ethod					DOL		
Ambiei	nt tempe	rature			-20 to +	-40		°C	Тур	Type of coupling					Direct			
Tempe	rature ri	se (by r	esistanc	e)	80 [ Clas	s B ]		К	LR	LR withstand time (hot/cold)					15/30			
Altitud	e above	sea lev	el		1000	)		meter	Dir	Direction of rotation					<b>Bi-directional</b>			
Hazard	ous area	classif	ication		NA				Sta	Standard rotation					Clockwise form DE			
	Zone cla	assifica	tion		NA				Pai	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	S							
	Temper	ature o	lass		NA					Ace	cessory -	1				PTC 150°C		
Rotor t	уре			Alu	iminum l	Die cast				Ace	cessory -	2				-		
Bearing	ing type Anti-friction ball					Accessory - 3					-							
DE / NI	DE bearii	ng			05-2Z / 6				Ter	minal b	ox positi	ion				RHS		
Lubrica	tion me	thod		G	reased for	or life						e/condui	t size	1F	x 3C x 1	L0mm²/2 x M	20 x 1.5	
Туре о	f grease				NA				Aux	kiliary te	erminal b	хох				NA		

 $I_{A}/I_{N}$  - Locked Rotor Current / Rated Current  $T_{A}/T_{N}$  - Locked Rotor Torque / Rated Torque

T<sub>K</sub>/T<sub>N</sub> - 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 dat	ta are subject to chang	e. There may be slight	variations between calculated	d values in this datasheet a	nd the motor name	eplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2004	-	IEC:60034-30-1

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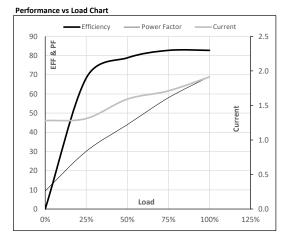


Model No. QCAP753A1113GAA001

Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Y	50	0.75	1.0	1.9	949	0.77	7.53	IE4	40	S1	1000	0.0052	29.0

#### Motor Load Data

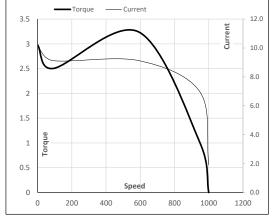
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.3	1.3	1.6	1.7	1.9	
Torque	Nm	0.0	1.8	3.7	5.5	7.5	
Speed	r/min	1000	987	976	963	949	
Efficiency	%	0.0	68.3	78.8	82.7	82.7	
Power Factor	%	9.4	30.1	44.0	58.0	69.0	
Power Factor	%	9.4	30.1	44.0	58.0	69.0	



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	591	949	1000	
Current	А	10.1	9.1	7.0	1.9	1.3	
Torque	pu	3.0	2.5	3.2	1	0	

Starting Characteristics Chart



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

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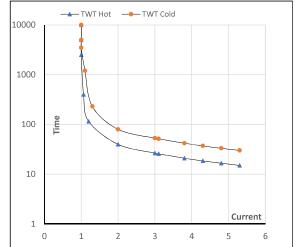
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Enclosure	U	$\Delta / Y$	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	0.75	1.0	1.9	949	0.77	7.53	IE4	40	S1	1000	0.0052	29.0

### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	١ <sub>3</sub>	$I_4$	l <sub>5</sub>	LR
TWT Hot	s	10000	40	27	19	17	16	15
TWT Cold	s	10000	80	53	39	35	34	30
Current	pu	1	2	3	4	4.5	5	5.3

### Thermal Characteristics Chart



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

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