### **PRODUCT INFORMATION PACKET**

Model No: QCAP751A1113GAA001 Catalog No: QCAP751A1113GAA001 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 80M Frame, TEFC



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Motors

Product Information Packet: Model No: QCAP751A1113GAA001, Catalog No:QCAP751A1113GAA001 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 80M Frame, TEFC

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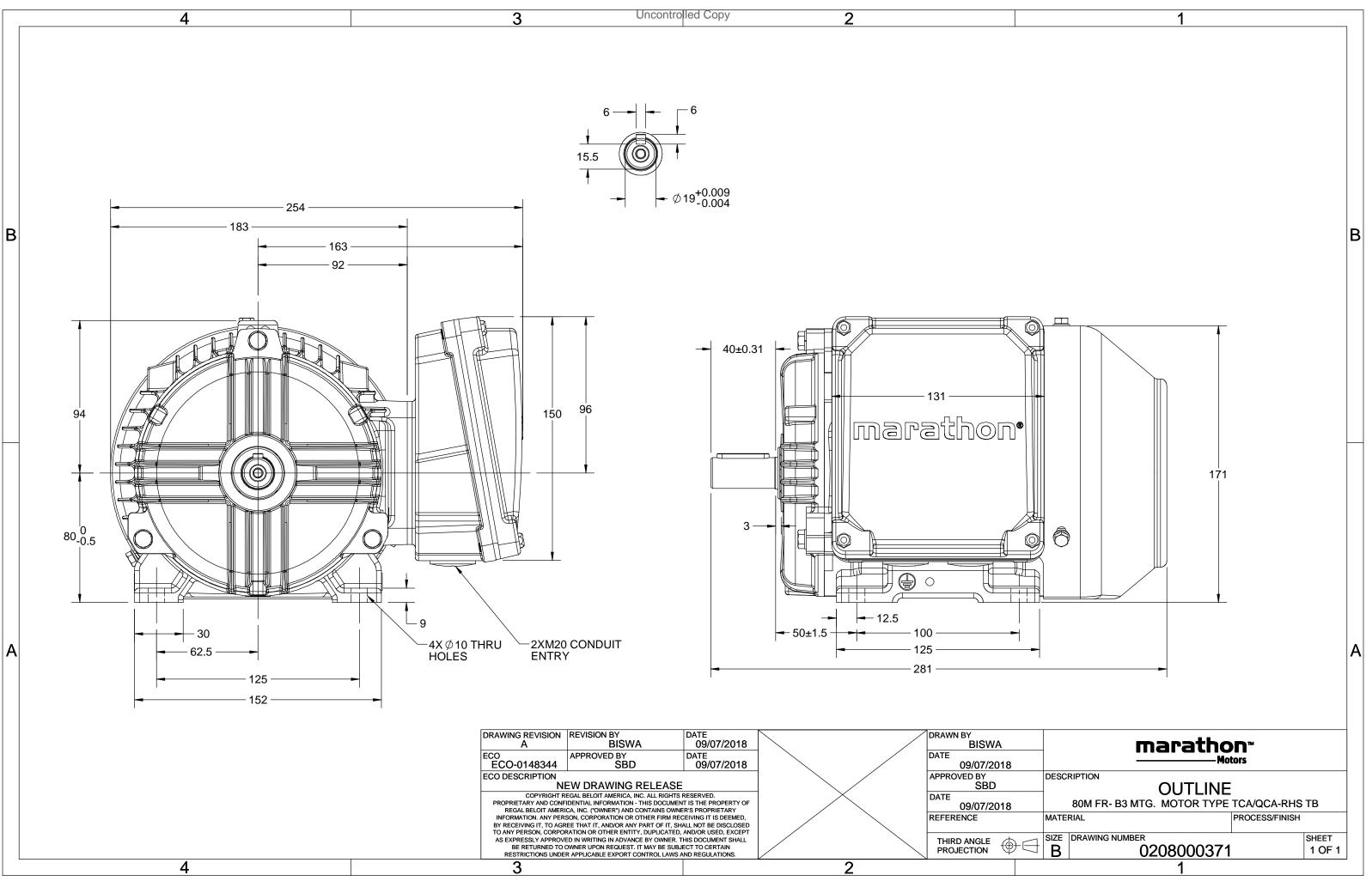
### Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 V
Current	1.6 A	Speed	2885 rpm
Service Factor	1	Phase	3
Efficiency	83.5 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	80M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6204	Ambient Temperature Opp Drive End Bearing Size	40 °C 6204
		· · ·	
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204

### **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	281 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0208000371

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### Model No. QCAP751A1113GAA001

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE		% EFF	at loa	d	PF	at lo	bad	$I_A/I_N$		$T_{\rm K}/T_{\rm N}$
(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	1.5	2885	2.47	IE4	-	83.5	83.5	80.6	0.84	0.78	0.66	7.2	3.5	3.9
Motor	type				OCA				De	gree of	protectio	an				IP 55		
Enclosi	/1				-					ounting	•					IM B3		
	Materia					-				oling me						IC 411		
Frame										•		rox				20.5		kg
Duty	5120			TEFC Model   Cast Iron Condition   80M Model   S1 Grad   ± 10% Model   ± 5% Load   10% Vib   N No   1.0 No   F State   -20 to +40 °C						•						21.5		kg
,	e variatio	on *			± 10%	6		Motor weight - approx. Gross weight - approx. Motor inertia Load inertia Vibration level Noise level ( 1meter distance from motor								0.0016		kgm²
0	ncy varia				± 5%	,			Motor inertia Load inertia						Cust	omer to Prov	vide	
	ned varia				10%											1.6		mm/s
Design					N				No	ise leve	l ( 1mete	er distanc	e from	motor)		56		dB(A)
Service	factor				1.0				No	. of star	ts hot/co	old/Equa	lly sprea	d		2/3/4		
Insulat	ion class				F				Sta	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	+40		°C	Тур	be of co	upling				Direct			
Tempe	rature ri	se (by i	resistand	ce)	80 [ Clas	sB]		К	LR	withsta	nd time	(hot/cold	)			15/30		5
Altitud	e above	sea lev	el		1000	)		meter	Dir	ection o	of rotatio	n			В	i-directional		
Hazard	lous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	kwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	S							
	Temper	ature o	lass		NA					Ace	cessory -	1				PTC 150°C		
Rotor t	ype			Alı	ıminum l	Die cast				Ace	cessory -	2				-		
Bearing	g type				nti-frictio					Ace	cessory -	3				-		
DE / NI	DE beari	ng			04-2Z / E				Ter	minal b	ox positi	ion				RHS		
Lubrica	ation me	thod		G	reased f				Ma	iximum	cable siz	e/condu	it size	1F	R x 3C x 2	L0mm²/2 x N	120 x 1.5	
Type o	f grease				NA				Au	xiliary 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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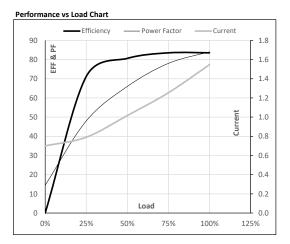


Model No. QCAP751A1113GAA001

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	1.5	2885	0.25	2.47	IE4	40	S1	1000	0.0016	20.5

#### Motor Load Data

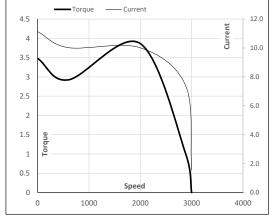
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	0.7	0.8	1.0	1.3	1.5	
Torque	Nm	0.0	0.6	1.2	1.8	2.5	
Speed	r/min	3000	2970	2944	2916	2885	
Efficiency	%	0.0	71.2	80.6	83.5	83.5	
Power Factor	%	14.5	48.0	66.0	78.0	84.0	



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	1993	2885	3000	
Current	А	11.1	10.0	7.4	1.5	0.7	
Torque	pu	3.5	2.9	3.9	1	0	

Starting Characteristics Chart



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

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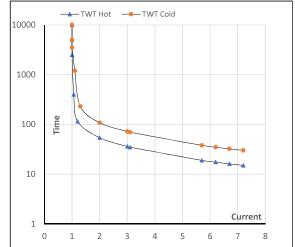
#### Model No. QCAP751A1113GAA001

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	Y	50	0.75	1.0	1.5	2885	0.25	2.47	IE4	40	S1	1000	0.0016	20.5

#### Motor Speed Torque Data

Load		FL	$I_1$	$I_2$	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	54	36	30	25	19	15
TWT Cold	s	10000	108	72	60	50	39	30
Current	pu	1	2	3	4	5	5.5	7.2

#### Thermal Characteristics Chart



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

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