PRODUCT INFORMATION PACKET

Model No: QCAP751AF171GAA001 Catalog No: QCAP751AF171GAA001 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 380 V, 3000 RPM, 80M Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E





Product Information Packet: Model No: QCAP751AF171GAA001, Catalog No:QCAP751AF171GAA001 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 380 V, 3000 RPM, 80M Frame, TEFC

marathon®

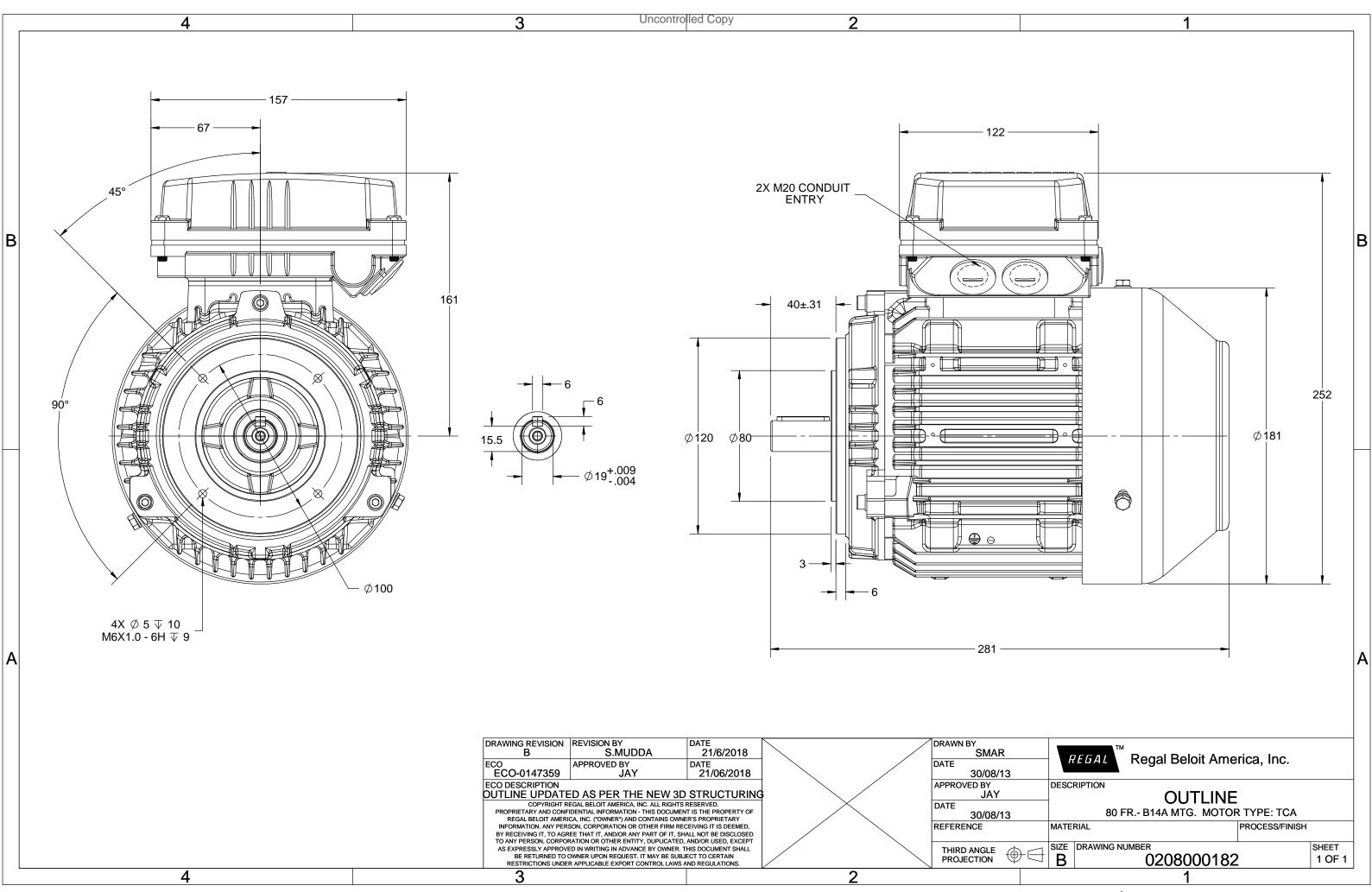
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	380 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
Frame Thermal Protection	80M 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 6204	Ambient Temperature Opp Drive End Bearing Size	40 °C 6204

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B14A	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	Тор		
Outline Drawing	0208000182	Connection Drawing	8442000085

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/01/2022



3 of 7





TerraMAX[®]

Model No. QCAP751AF171GAA001

U	Δ / Y	f	Р	Р	1	n	т	IE		% EFF a	t load	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]	
380	Y	50	0.75	1.0	1.6	2885	2.47	IE4	-	83.5	83.5	80.6	0.84	0.78	0.66	7.2	3.5	3.9	
Motor	type				QCA				Der	aree of	protecti	on				IP 55			
Enclos					TEFC					unting		on			IM B14A				
	Materia				Cast Ir	on				oling me						IC 411			
Frame					80N					0		prox.				20.7		kg	
Duty					S1			Motor weight - approx. Gross weight - approx. Motor inertia Load inertia Vibration level Noise level (1meter distance from I							21.7		kg		
	e variatio	on *			± 10%	6		Gross weight - approx. Motor inertia Load inertia Vibration level Noise level (1meter distance from me No. of starts hot/cold/Equally spread							0.0016		kgm ²		
Freque	ncy varia	ation *			± 5%	D			Load inertia Vibration level Noise level (1meter distance from m						Cust	omer to Provi	ide	0	
	, ned varia									Vibration level					1.6		mm/s		
Design					N							n motor)	56		dB(A)			
Service	factor				1.0				No	. of star	ts hot/c	old/Equ	ally spre	ead		2/3/4			
Insulat	ion class				F				Sta	rting m	ethod					DOL			
Ambier	nt tempe	erature			-20 to +	-40		°C	Тур	be of co	upling					Direct			
Tempe	rature ri	se (by i	resistand	ce)	80 [Clas	s B]		к	LR	withsta	nd time	(hot/co	ld)			15/30		S	
Altitud	e above	sea lev	el		1000)		meter	Dir	ection o	of rotatio	on			B	Bi-directional			
Hazard	ous area	classif	ication		NA				Sta	Standard rotation					Clockwise form DE				
	Zone cla	assifica	tion		NA				Pai	Paint shade					RAL 5014				
	Gas gro	up			NA				Acc	cessorie	S								
	Temper	ature o	class		NA					Ace	cessory -	- 1				-			
Rotor t	уре			Alı	ıminum l	Die cast				Ace	cessory -	- 2				-			
Bearing	g type			A	nti-frictio	on ball				Ace	cessory -	- 3				-			
DE / NI	DE beari	ng			04-2Z / E				Ter	minal b	ox posit	ion				TOP			
Lubrica	tion me	thod		G	ireased f	or life			Ma	ximum	cable siz	ze/cond	uit size	16	x 3C x 3	10mm²/2 x M	20 x 1.5		
Type o	f grease				NA				Aux	kiliary te	erminal l	box				NA			
I _A /I _N - L	ocked R	otor Cu	ırrent / F	Rated Cu	rrent				Т _к /	T _N - Bre	akdown	Torque	/ Rateo	l Torque	2				

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 da	Technical data are subject to change. There may be discrepancies between calculated and name plate values.											
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC						
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30						

REGAL

marathon®

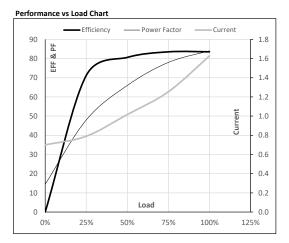


Model No. QCAP751AF171GAA001

Enclosure	U	Δ / 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 ²]	[kg]
TEFC	380	Y	50	0.75	1.0	1.6	2885	0.25	2.47	IE4	40	S1	1000	0.0016	20.7

Motor Load Data

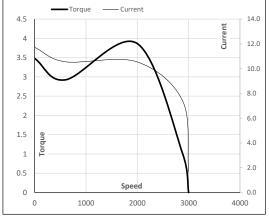
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	0.7	0.8	1.0	1.3	1.6	
Nm	0.0	0.6	1.2	1.8	2.5	
/min	3000	2970	2944	2916	2885	
%	0.0	71.2	80.6	83.5	83.5	
%	14.5	48.0	66.0	78.0	84.0	
	Nm /min %	Nm 0.0 /min 3000 % 0.0	Nm 0.0 0.6 /min 3000 2970 % 0.0 71.2	Nm 0.0 0.6 1.2 /min 3000 2970 2944 % 0.0 71.2 80.6	Nm 0.0 0.6 1.2 1.8 /min 3000 2970 2944 2916 % 0.0 71.2 80.6 83.5	Nm 0.0 0.6 1.2 1.8 2.5 /min 3000 2970 2944 2916 2885 % 0.0 71.2 80.6 83.5 83.5



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	1993	2885	3000	
Current	А	11.7	10.5	7.4	1.6	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

Issued By Issued Date

REGAL





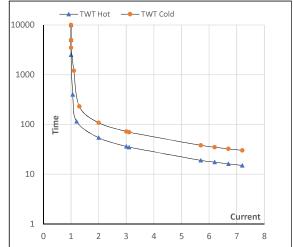
Model No. QCAP751AF171GAA001

Enclosure	U	Δ / 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 ²]	[kg]
TEFC	380	Y	50	0.75	1.0	1.6	2885	0.25	2.47	IE4	40	S1	1000	0.0016	20.7

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	I ₅	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

Issued By Issued Date

REGAL