PRODUCT INFORMATION PACKET

Model No: QCAP751A1133GAA001 Catalog No: QCAP751A1133GAA001 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 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 (Figal Rexnord)



marathon[®]

Product Information Packet: Model No: QCAP751A1133GAA001, Catalog No:QCAP751A1133GAA001 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 80M Frame, TEFC

marathon®

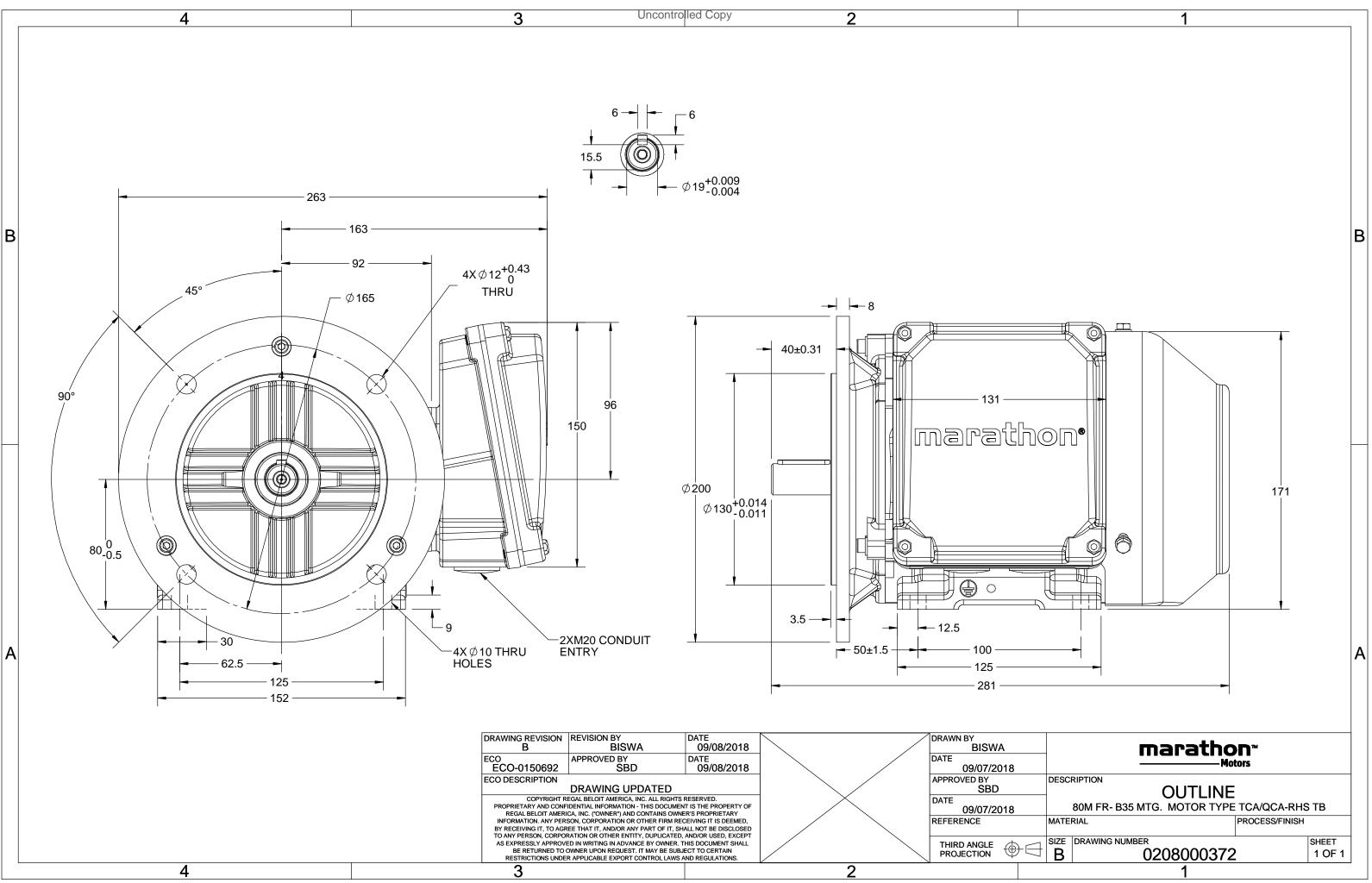
Nameplate Specifications

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	B35	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		
Outline Drawing	0208000372	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. QCAP751A1133GAA001

	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF a	t load	t	PF	at lo	ad	I _A /I _N	T_A/T_N	Τ _κ /Τ _Ν
(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 t	ype				QCA				Deg	gree of J	orotecti	on				IP 55		
Enclosu	re				TEFC	2			Мо	unting	type					IM B35		
rame I	Material				Cast In	on			Coc	ling me	ethod					IC 411		
rame s	size				80M				Mo	tor wei	ght - app	prox.				21.7		k
Duty					S1				Gro	ss weig	ht - app	rox.				22.7		k
/oltage	variatio	n *			± 10%	6			Mo	tor iner	tia				0.0016			kgm
reque	ncy varia	ation *			± 5% Load inertia									Custo	omer to Prov	ide		
Combin	ed varia	ition *			10%			Load inertia Vibration level							1.6		mm/s	
Design					N				Noi	se level	(1mete	er distar	ice from	motor)	56		dB(A
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spre	ead		2/3/4		
nsulati	on class				F				Sta	rting me	ethod					DOL		
Ambien	t tempe	rature			-20 to +	-40		°C	Тур	e of co	upling				Direct			
Temper	ature ri	se (by r	esistand	ce)	80 [Clas	s B]		К	LR v	R withstand time (hot/cold)				15/30			:	
Altitude	above	sea lev	el		1000)		meter	Dire	ection o	of rotatio	on			В	i-directional		
Hazardo	ous area	classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form [DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Acc	essory -	- 1				PTC 150°C		
Rotor ty	/pe			Alu	iminum I	Die cast				Acc	essory -	- 2				-		
Bearing	type			A	nti-frictio	on ball				Acc	essory -	- 3				-		
DE / NC	E bearir	ng		62	04-2Z/6	204-2Z			Ter	minal b	ox posit	ion				RHS		
ubrica	tion met	thod		G	reased fo	or life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 2	10mm²/2 x N	120 x 1.5	
Type of	grease				NA				Aux	iliary te	erminal l	box				NA		

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

T_K/T_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 dat	a are subject to change	e. There may be slight v	variations between calculated	values in this datashe	eet and the motor name	eplate 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

REGAL

marathon®

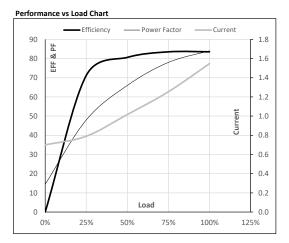


Model No. QCAP751A1133GAA001

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	400	Y	50	0.75	1.0	1.5	2885	0.25	2.47	IE4	40	S1	1000	0.0016	21.7

Motor Load Data

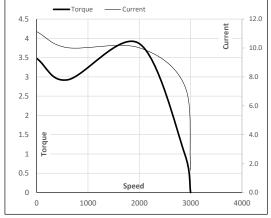
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	0.7	0.8	1.0	1.3	1.5	
Torque	Nm	0.0	0.6	1.2	1.8	2.5	
Speed	r/min	3000	2970	2944	2916	2885	
Efficiency	%	0.0	71.2	80.6	83.5	83.5	
Power Factor	%	14.5	48.0	66.0	78.0	84.0	
Power Factor	%	14.5	48.0	66.0	78.0	84.0	



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

Issued By Issued Date

REGAL





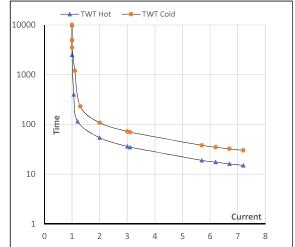
Model No. QCAP751A1133GAA001

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	400	Y	50	0.75	1.0	1.5	2885	0.25	2.47	IE4	40	S1	1000	0.0016	21.7

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