PRODUCT INFORMATION PACKET

Model No: QCA0373A1121GAA001 Catalog No: QCA0373A1121GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 250M 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



marathon[®]

Motors

fra Regal Rexnord

Product Information Packet: Model No: QCA0373A1121GAA001, Catalog No:QCA0373A1121GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 250M Frame, TEFC

marathon®

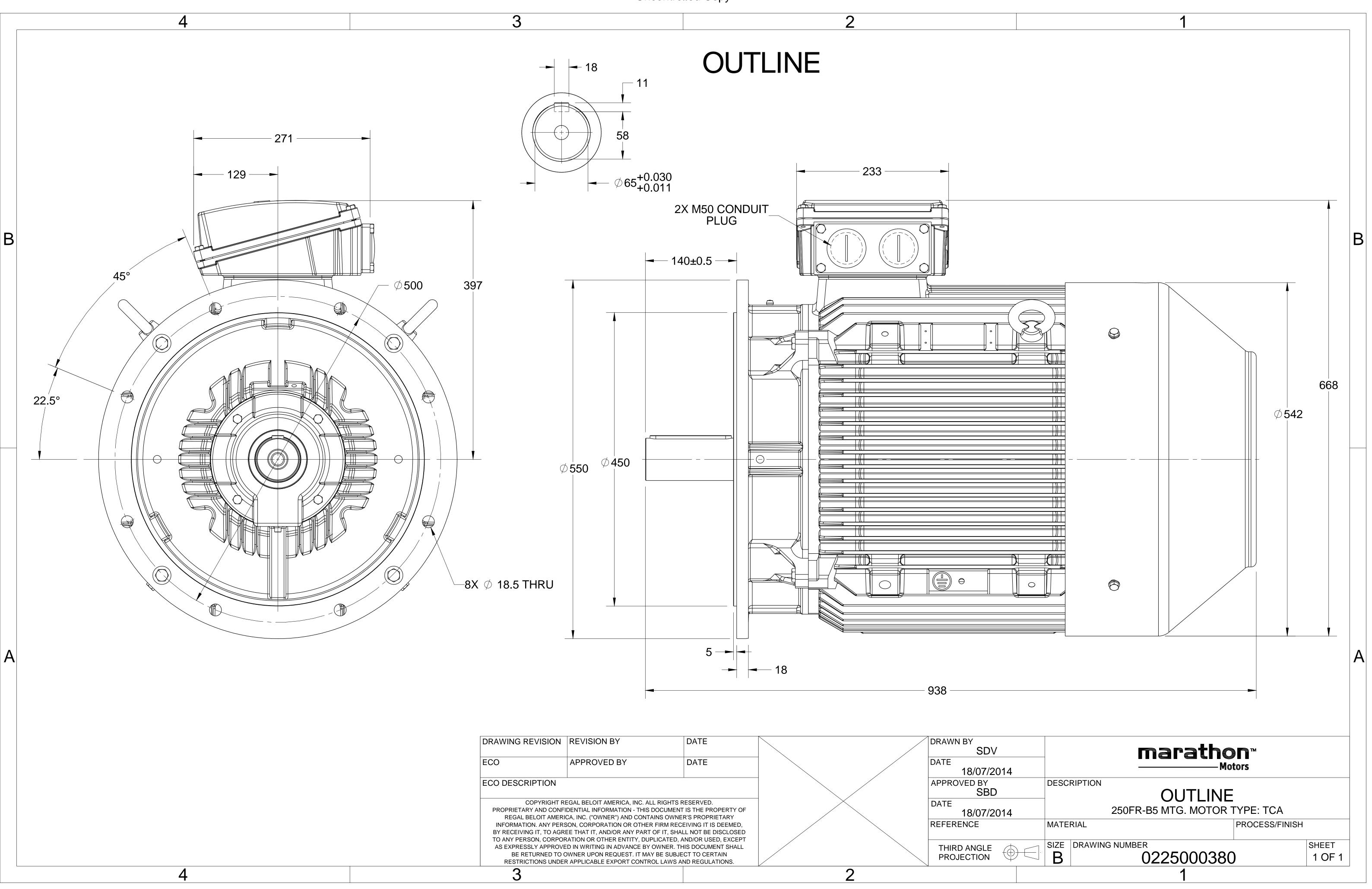
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	400 V
Current	70.3 A	Speed	988 rpm
Service Factor	1	Phase	3
Efficiency	94.5 %	Power Factor	0.81
Duty	S1	Insulation Class	F
F	05014	En als avera	
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	250M No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6314	Ambient Temperature Opp Drive End Bearing Size	40 °C 6314

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	938 mm	Frame Length	460 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0225000380	Connection Drawing	8442000085

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



Uncontrolled Copy





TerraMAX[®]

Model No. QCA0373A1121GAA001

U	Δ / Y	f	Р	Р	I	n	т	IE		% EFF a	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	Δ	50	37	50	70.3	988	360.30	IE4	-	94.5	94.5	93.4	0.81	0.75	0.62	7.3	2.7	3.2
Motor	type				QCA				Deg	gree of	protectio	on				IP 55		
Enclosu	ure				TEFC				Mo	unting	type					IM B5		
Frame	Material	l			Cast Iro				Cod	oling me	ethod					IC 411		
Frame	size				250N	1			Mo	tor wei	ght - app	orox.				527		kg
Duty					S1				Gro	oss weig	ht - app	rox.				562		kg
Voltage	e variatio	on *			± 10%	5			Mo	tor iner	tia					1.9403		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	d inerti	а				Cust	omer to Provi	de	
Combir	ned varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					N				No	ise level	(1mete	r distanc	e from	motor)		65		dB(A)
Service	factor				1.0				No	of star	ts hot/co	old/Equa	lly sprea	ad		2/3/4		
Insulati	ion class				F				Sta	rting m	ethod				DOL			
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	se (by r	esistanc	e)	80 [Clas	5 B]		К	LR	LR withstand time (hot/cold)					15/30			S
Altitud	e above	sea lev	el		1000			meter	Dir	ection c	of rotatio	n			B	Bi-directional		
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form D	E	
	Zone cla	assifica	tion		NA				Pai	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature c	lass		NA					Acc	cessory -	1				PTC 150°C		
Rotor t	ype			Alı	uminum D)ie cast				Acc	essory -	2				-		
Bearing	g type			A	nti-frictio	n ball				Acc	essory -	3				-		
DE / NI	DE bearii	ng		63	14 C3 / 6	314 C3			Ter	minal b	ox positi	on				TOP		
Lubrica	ition me	thod			Regrease	able			Ma	ximum	cable siz	e/condu	it size	1F	x 3C x 9	95mm²/2 x M	50 x 1.5	
Type of	f grease			CHEVRC	N SRI-2 c	r Equival	ent		Aux	kiliary te	erminal b	юх				NA		

 $I_{\text{A}}/I_{\text{N}}$ - 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	ta are subject to chang	ge. There may be slight	variations between calculate	d values in this datasheet an	d the motor nan	neplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2004	-	IEC 60034-30-1

REGAL

marathon®

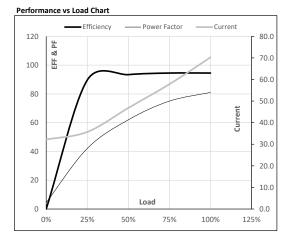


Model No. QCA0373A1121GAA001

Enclosure	U	Δ / Y	f	Р	Р	I	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	400	Δ	50	37	50	70.3	988	36.74	360.30	IE4	40	S1	1000	1.9403	527

Motor Load Data

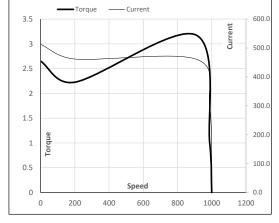
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	32.2	35.7	46.9	57.8	70.3	
Torque	Nm	0.0	89.3	179.1	269.4	360.3	
Speed	r/min	1000	997	994	991	988	
Efficiency	%	0.0	89.6	93.4	94.5	94.5	
Power Factor	%	4.5	42.1	62.0	75.0	81.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	200	907	988	1000	
Current	А	513.0	461.7	301.1	70.3	32.2	
Torque	pu	2.7	2.2	3.2	1	0	

Starting Characteristics Chart



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

Issued By Issued Date

REGAL





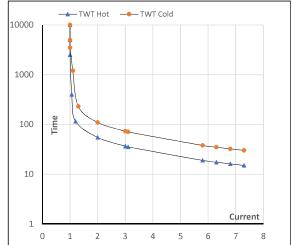
Model No. QCA0373A1121GAA001

Enclosure	U	Δ / Y	f	Р	Р	Т	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	Δ	50	37	50	70.3	988	36.74	360.30	IE4	40	S1	1000	1.9403	527

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	55	37	30	25	20	15
TWT Cold	s	10000	110	73	60	45	40	30
Current	pu	1	2	3	4	5	5.5	7.3

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL