PRODUCT INFORMATION PACKET

Model No: QCA0373AF111GAA001 Catalog No: QCA0373AF111GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380 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





1 of 7

Product Information Packet: Model No: QCA0373AF111GAA001, Catalog No:QCA0373AF111GAA001 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 250M Frame, TEFC

marathon®

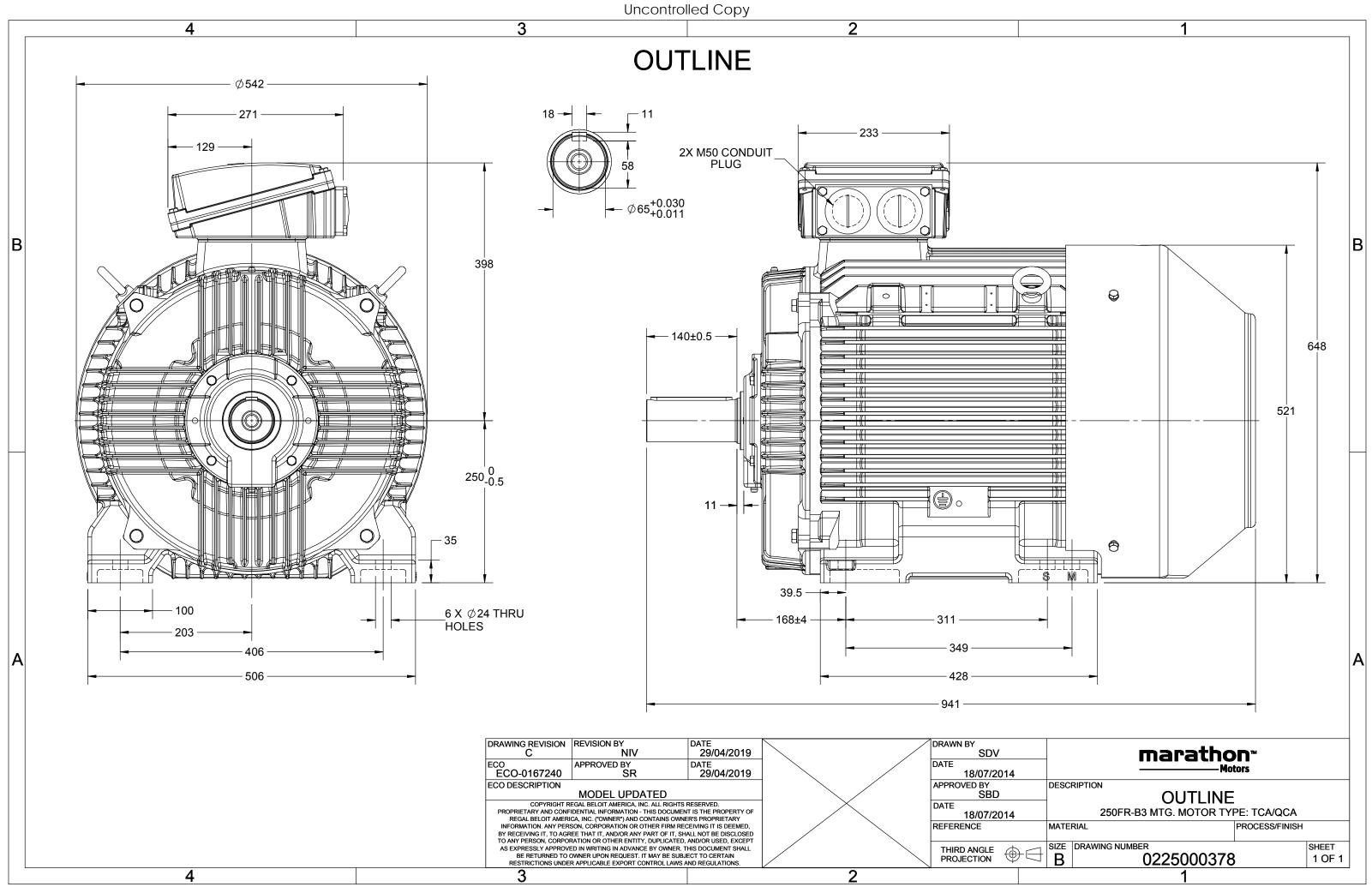
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	380 V
Current	74.0 A	Speed	988 rpm
Service Factor	1	Phase	3
Efficiency	94.5 %	Power Factor	0.81
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	250M 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 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	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	941 mm	Frame Length	460 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0225000378

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. QCA0373AF111GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load	ł	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	Δ	50	37	50	73.4	988	360.30	IE4	-	94.5	94.5	93.4	0.81	0.75	0.62	7.3	2.7	3.2
Motor t	type				QCA				Deg	gree of	orotecti	on				IP 55		
Enclosu	ire				TEFC				Mo	unting	type					IM B3		
Frame I	Material				Cast Iro	on			Coo	oling me	ethod					IC 411		
Frame s	size				250N				Mo	tor wei	ght - ap	orox.				519		kg
Duty					S1				Gro	oss weig	ht - app	rox.				554		kg kgm²
Voltage	variatio	on *			± 10%				Mo	tor iner	tia				1.9403			
Freque	ncy varia	ation *		± 5% Load iner						ıd inerti	а				Custo	omer to Provi	de	
Combir	ned varia	ation *	on * 10%				Vib	Vibration level						2.2		mm/s		
Design					Ν				No	Noise level (1meter distance from motor						tor) 65		
Service	factor				1.0				No	No. of starts hot/cold/Equally spread						2/3/4		
Insulati	on class				F				Sta	Starting method						DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	Type of coupling						Direct		
Temper	rature ri	se (by r	esistance	e)	80 [Class	5 B]		К	LR	LR withstand time (hot/cold)						15/30		
Altitude	e above	sea lev	el		1000			meter	Dir	ection c	f rotatio	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form D	E	
	Zone cla	assifica	tion		NA				Pai	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temperature class NA					Aco	essory -	1			PTC 150°C							
Rotor ty	ype	pe Aluminum Die cast					Accessory - 2					-						
Bearing	g type			Anti-friction ball					Accessory - 3						-			
DE / NC	E bearir	ng		63	14 C3 / 6	314 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod			Regreasa	ble			Ma	ximum	cable si	ze/cond	uit size	1F	x 3C x 9	95mm²/2 x M	50 x 1.5	
Type of	grease		(CHEVRC	ON SRI-2 o	r Equival	ent		Au	kiliary te	erminal	ьох				NA		

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - 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 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[®] Motors

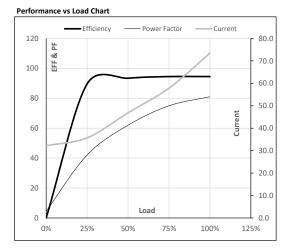


Model No. QCA0373AF111GAA001

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	380	Δ	50	37	50	73.4	988	36.74	360.30	IE4	40	S1	1000	1.9403	519
	500	-	50	5,	50	7511	500	56.71	500.50			01	1000	210 100	51

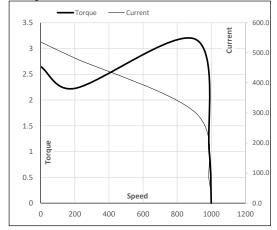
Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	32.2	35.7	46.9	57.8	73.4	
Nm	0.0	89.3	179.1	269.4	360.3	
r/min	1000	997	994	991	988	
%	0.0	89.6	93.4	94.5	94.5	
%	4.5	42.1	62.0	75.0	81.0	
	Nm r/min %	Nm 0.0 r/min 1000 % 0.0	Nm 0.0 89.3 r/min 1000 997 % 0.0 89.6	Nm 0.0 89.3 179.1 r/min 1000 997 994 % 0.0 89.6 93.4	Nm 0.0 89.3 179.1 269.4 '/min 1000 997 994 991 % 0.0 89.6 93.4 94.5	Nm 0.0 89.3 179.1 269.4 360.3 '/min 1000 997 994 991 988 % 0.0 89.6 93.4 94.5 94.5



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	200	907	988	1000					
Current	А	536.1	482.5	301.1	73.4	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





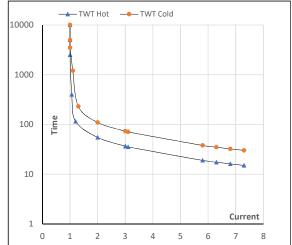
Model No. QCA0373AF111GAA001

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	Δ	50	37	50	73.4	988	36.74	360.30	IE4	40	S1	1000	1.9403	519

Motor Speed Torque Data

Load		FL	I_1	l 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	ри	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