PRODUCT INFORMATION PACKET

Model No: QCA0551AF111GAA001 Catalog No: QCA0551AF111GAA001 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 380 V, 3000 RPM, 250M Frame, TEFC



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Product Information Packet: Model No: QCA0551AF111GAA001, Catalog No:QCA0551AF111GAA001 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 380 V, 3000 RPM, 250M Frame, TEFC

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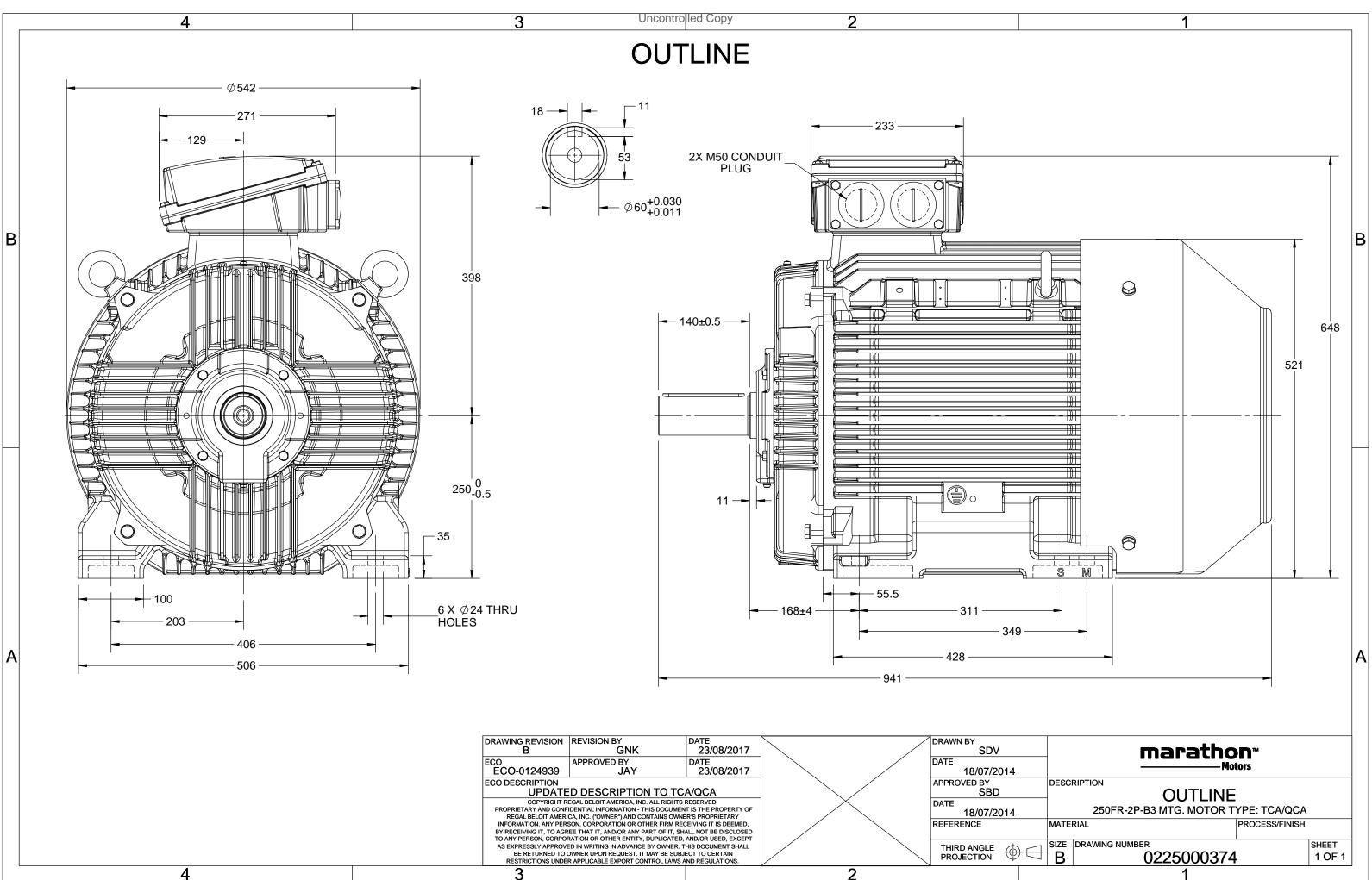
Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	380 V
Current	98.9 A	Speed	2981 rpm
Service Factor	1	Phase	3
Efficiency	95.3 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	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	2	Rotation	Bi-Directional	
Mounting	B3	Motor Orientation	Horizontal	
Drive End Bearing	C3	Opp Drive End Bearing	СЗ	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	941 mm	Frame Length	460 mm	
Shaft Diameter	60 mm	Shaft Extension	140 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0225000374	Connection Drawing	8442000085	

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. ,		[Hz] 50	[kW] 55	[hp] 75	[A]	[RPM]	[Nm]											
	Δ	50	55	75		[]	[INITI]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
Motor type					98.5	2981	179.17	IE4	-	95.3	95.3	93.8	0.89	0.86	0.77	7.9	2.3	3.9
Motor type																		
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	e				QCA						protection	on				IP 55		
Enclosure					TEFC				Мо	unting t	уре					IM B3		
Frame Mat	terial				Cast Iro	n			Coc	oling me	thod					IC 411		
Frame size	2				250M				Mo	tor wei	ght - app	orox.				564		kg
Duty					S1				Gro	oss weig	ht - app	rox.				599		kg
Voltage var	riation	*			± 10%				Мо	tor iner	tia					0.7846		kgm ²
Frequency	ency variation * ± 5%							Loa	d inerti	а				Custo	omer to Provid	е		
Combined	ed variation * 10%						Vib	ration le	evel					2.2		mm/s		
Design			Ν						Noi	se level	(1mete	er distar	nce fron	n motor)	75		dB(A)
Service fact	tor						No. of starts hot/cold/Equally spread						2/3/4					
Insulation of	class				F				Sta	Starting method						DOL		
Ambient te	empera	ature			-20 to +	40		°C	Тур	Type of coupling						Direct		
Temperatu	ure rise	(by re	esistance	e)	80 [Class	B]		К	LR	withstar	nd time	(hot/co	ld)		15/30			
Altitude ab	oove se	a leve	el		1000			meter	Dire	ection o	f rotatio	on			В	i-directional		
Hazardous	area c	lassifi	cation		NA				Sta	ndard ro	otation				Cloc	ckwise form DB		
Zon	ne class	sificat	ion		NA				Pai	nt shade	5				RAL 5014			
Gas	s group	C			NA				Acc	essorie	S							
Ten	Temperature class NA						Acc	essory -	1			PTC 150°C						
Rotor type							Accessory - 2						-					
Bearing typ	pe			A	nti-frictio	n ball				Acc	essory -	3				-		
DE / NDE b	pearing			63	814 C3 / 63	314 C3			Ter	minal b	ox posit	ion				TOP		
Lubrication	n meth	od			Regreasa	ble			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 9	95mm²/2 x M5	0 x 1.5	
Type of gre	ease		(CHEVRO	ON SRI-2 o	r Equival	ent		Aux	diliary te	erminal l	box				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						

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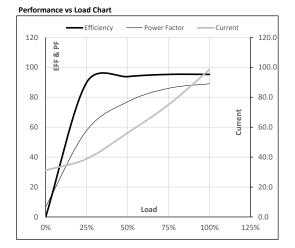


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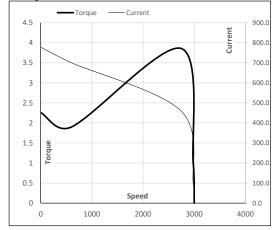
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	55	75	98.5	2981	18.27	179.17	IE4	40	S1	1000	0.7846	564

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	31.2	38.8	56.2	75.0	98.5	
Torque	Nm	0.0	44.6	89.3	134.2	179.2	
Speed	r/min	3000	2995	2991	2986	2981	
Efficiency	%	0.0	89.9	93.8	95.3	95.3	
Power Factor	%	6.8	57.8	77.0	86.0	89.0	



Starting Characteristics Chart



Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	600	2743	2981	3000
Current	А	778.3	700.5	460.3	98.5	31.2
Torque	pu	2.3	1.9	3.9	1	0

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

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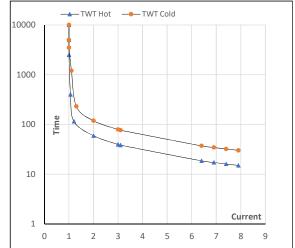
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Enclosure	U	Δ / Y	f	Р	Р	Ι	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	55	75	98.5	2981	18.27	179.17	IE4	40	S1	1000	0.7846	564

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	59	40	30	25	20	15
TWT Cold	s	10000	119	79	65	50	45	30
Current	ри	1	2	3	4	5	5.5	7.9

Thermal Characteristics Chart



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

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