PRODUCT INFORMATION PACKET

marathon°

Model No: TCA0552A1121GAC010 Catalog No: TCA0552A1121GAC010 TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 250M Frame, TEFC



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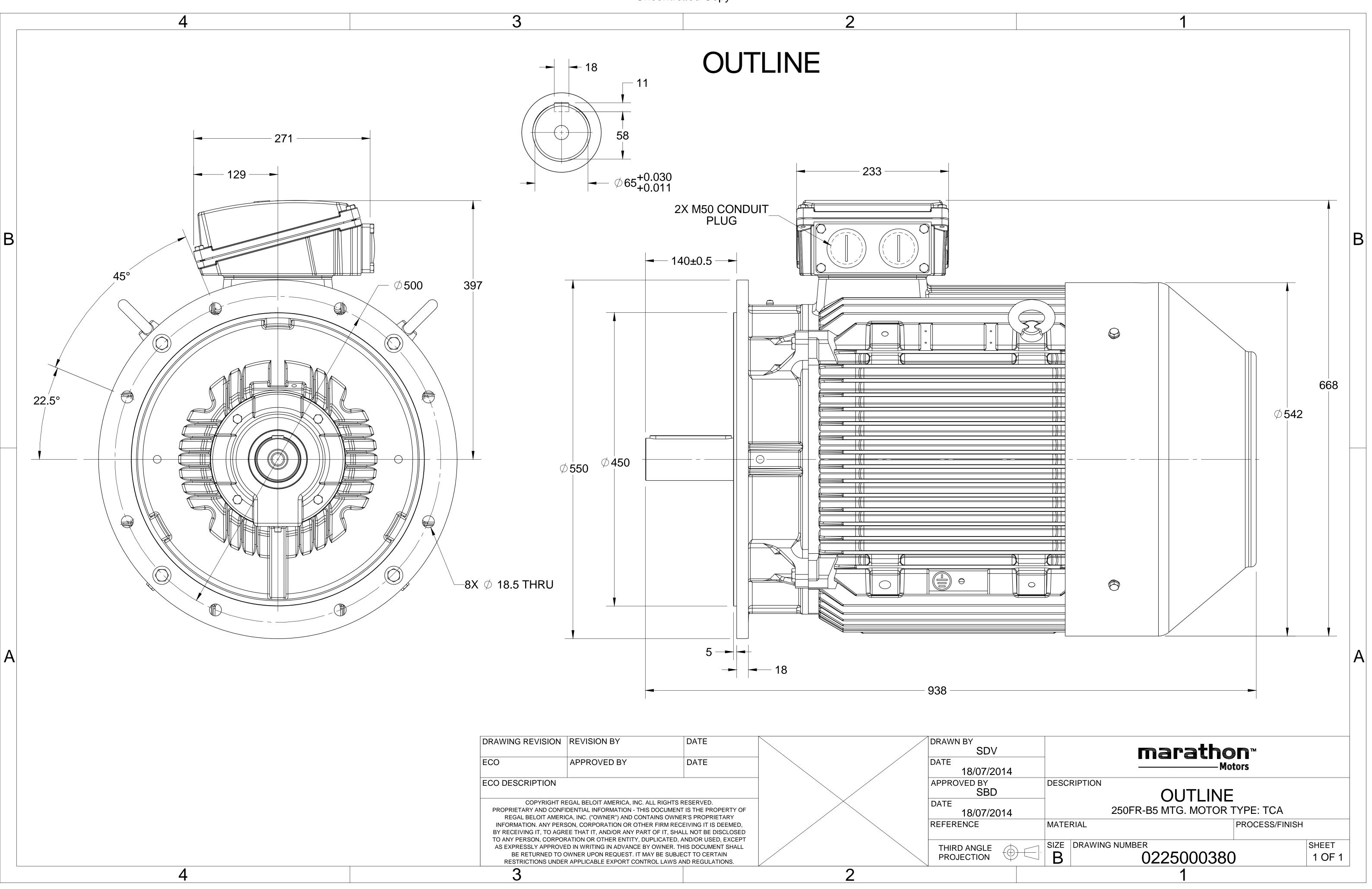
Nameplate Specifications

Phase	3	Output HP	75 Hp
Output KW	55.0 kW	Voltage	400 V
Speed	1487 r/min	Service Factor	1
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.6 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	97.6 A	Power Factor	0.86
Duty	S1	Insulation Class	F
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	No	CSA	No
CE	Yes	IP Code	55
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
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

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TerraMAX[®]

Model No. TCA0552A1121GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load	I	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	55	75	97.6	1487	359.08	IE3	-	94.6	94.6	94	0.86	0.81	0.71	7.2	2.2	3.4
Motor t	type				TCA				Deg	gree of	orotecti	on				IP 55		
Enclosu	ire				TEFC				Mc	ounting	type					IM B5		
Frame I	Materia	I			Cast Irc	on			Cod	oling me	thod					IC 411		
Frame s	size				250N	I			Mc	tor wei	ght - app	orox.				542		kg
Duty S1						Gro	oss weig	ht - app	rox.		577		kg					
Voltage	Voltage variation * ± 10%						Mc	Motor inertia						1.3974				
Freque	Frequency variation * ± 5%					Loa	id inerti	а				Customer to Provide						
Combin	Combined variation * 10%						Vib	ration l	evel					2.2		mm/s		
Design	esign N					No	ise level	(1mete	er dista	nce fror	n motoi	r)) 68					
Service	factor				1.0				No. of starts hot/cold/Equally spread						2/3/4			
Insulati	on class				F				Sta	rting m	ethod					DOL		
Ambien	nt tempe	erature			-20 to +	40	°C Type of co				oupling					Direct		
Temper	rature ri	se (by i	resistance	e)	80 [Class	5 B]		К	LR withstand time (hot/cold)						15/30			S
Altitude	e above	sea lev	el		1000			meter	Dir	ection c	f rotatio	on			B	i-directiona	al	
Hazardo	ous area	a classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temperature class NA						Acc	essory -	1				PTC 150°C					
Rotor ty	Rotor type Aluminum Die cast						Accessory - 2					-						
Bearing	type			A	nti-frictio	n ball				Acc	essory -	3				-		
DE / NC)E beari	ng		631	4 C3/6	314 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod			Regrease	able			Ma	ximum	cable siz	e/cond	uit size	1F	x 3C x 9	95mm²/2 x	M50 x 1.5	
Type of	grease		C	HEVRO	N SRI-2 o	r Equival	ent		Aux	kiliary te	erminal l	хос				NA		

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

 $\rm T_A/\rm T_N$ - Locked Rotor 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 data are subject to change. There may be discrepancies between calculated and name plate values. Aus/Nz Brazil India Global IEC Efficiency Europe China GB 18613-2012 Grade 2 -IEC: 60034-30 Standards --_

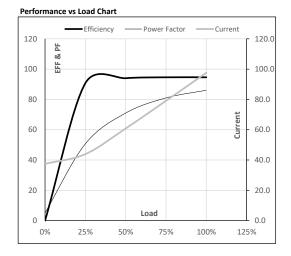




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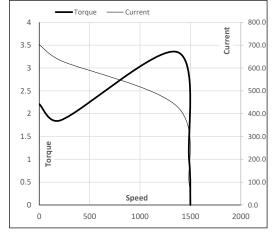
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	55	75.0	97.6	1487	36.62	359.08	IE3	40	S1	1000	1.3974	542

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	37.5	43.9	60.8	79.1	97.6	
Torque	Nm	0.0	89.2	178.8	268.7	359.1	
Speed	r/min	1500	1497	1494	1491	1487	
Efficiency	%	0.0	90.7	94.0	94.6	94.6	
Power Factor	%	5.1	50.7	71.0	81.0	86.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	214	1368	1487	1500					
Current	А	702.6	632.3	431.6	97.6	37.5					
Torque	nu	22	1.9	34	1	0					

Starting Characteristics Chart



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

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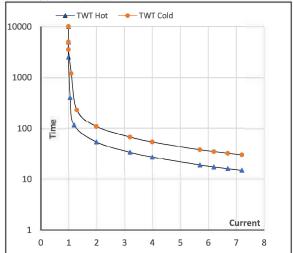
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1	Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
	TEFC	400	Δ	50	55	75.0	97.6	1487	36.62	359.08	IE3	40	S1	1000	1.3974	542

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	I ₄	l ₅	LR
TWT Hot	s	10000	54	37	27	24	20	15
TWT Cold	s	10000	108	72	54	50	41	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

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