PRODUCT INFORMATION PACKET

Model No: TCA2004A1121GAC010 Catalog No: TCA2004A1121GAC010 TerraMAX® Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 355L Frame, TEFC



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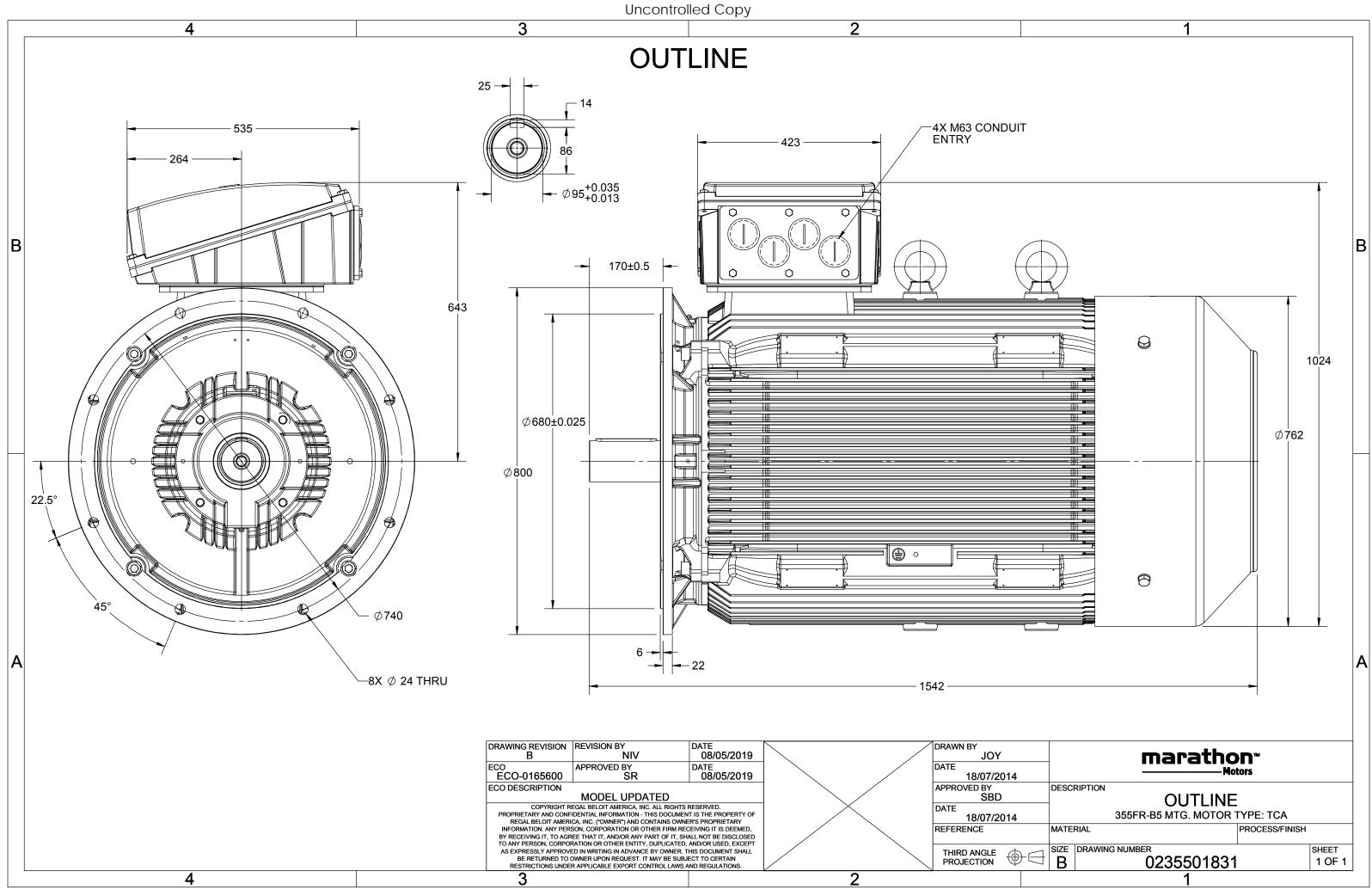
Nameplate Specifications

Output HP	270 Hp	Output KW	200.0 kW
Frequency	50 Hz	Voltage	400 V
Current	367.7 A	Speed	742 rpm
Service Factor	1	Phase	3
Efficiency	94.6 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	355L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
UL	No	CSA	Νο
CE	Yes	IP Code	55
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0235501831

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t load	ł	PF	at lo	oad	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	200	270	367.7	742	2590.6	IE3	-	94.6	94.6	95	0.83	0.8	0.71	6.3	1.7	2.5
					TCA				De							IP 55		
Motor t					TEFC						protecti	on				IP 55 IM B5		
Enclosu										ounting								
Frame I		I			Cast Iro 355L					oling me						IC 411 1998		
Frame s	size										ght - apı					kg		
Duty		<u>ب</u>			S1						ht - app	rox.					kg	
Voltage				± 10% Motor inertia								C 1	13.1902		kgm ²			
•	•						inerti	-				Custo	omer to Pr	ovide	,			
Combin	ed varia	ation *			10%					ration l			-			2.8		mm/s
Design					N						(1mete				r)	65		dB(A)
Service					1.0						ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation					F					rting m						DOL		
Ambien					-20 to +			°C		be of co						Direct		
		• •	resistanc	e)	80 [Class	-		K			nd time	· ·	ld)			15/30		S
Altitude					1000			meter			of rotatio	on				i-direction		
Hazardo					NA					ndard r					Clo	ckwise forn	n DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	S							
	Temperature class NA						Aco	essory -	1				PTC 150°C					
Rotor ty	/pe			Alı	uminum d	ie cast				Aco	essory -	2				-		
Bearing	type			A	nti-frictio	n ball				Aco	essory -	3				-		
DE / ND	E beari	ng		632	22 C3/6	322 C3			Ter	minal b	ox posit	ion				TOP		
Lubricat	tion me	thod			Regrease	able			Ma	iximum	cable siz	e/cond	luit size	1R	x 3C x 3	00mm²/4 >	x M63 x 1.5	
Type of	grease		(CHEVRC	DN SRI-2 o	r Equiva	lent		Au	xiliary te	erminal	оох				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 --_

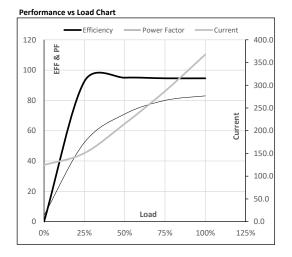




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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	200	270.0	367.7	742	264.17	2590.61	IE3	40	S1	1000	13.1902	1998

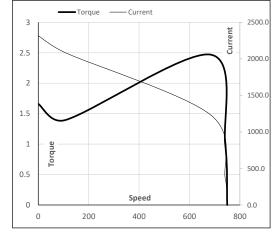
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	124.6	150.6	215.3	286.8	367.7	
Torque	Nm	0.0	642.7	1288.5	1937.6	2590.6	
Speed	r/min	750	748	746	745	742	
Efficiency	%	0.0	92.5	95.0	94.6	94.6	
Power Factor	%	4.2	52.2	71.0	80.0	83.0	



Motor Speed Torque Data

motor opec	a loigae Ba					
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	107	683	742	750
Current	А	2316.2	2084.6	1237.2	367.7	124.6
Torque	pu	1.7	1.4	2.5	1	0

Starting Characteristics Chart



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

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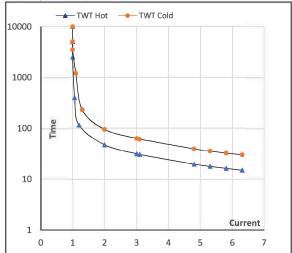
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
-	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	200	270.0	367.7	742	264.17	2590.61	IE3	40	S1	1000	13.1902	1998

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	I ₄	۱ ₅	LR
TWT Hot	s	10000	47	32	25	18	16	15
TWT Cold	s	10000	95	63	48	37	33	30
Current	pu	1	2	3	4	5	5.5	6.3

Thermal Characteristics Chart



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

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