PRODUCT INFORMATION PACKET

Model No: TCA1504AF113GAC010 Catalog No: TCA1504AF113GAC010 TerraMAX® Cast Iron Motor, 200 HP, 3 Ph, 50 Hz, 380 V, 750 RPM, 355M Frame, TEFC



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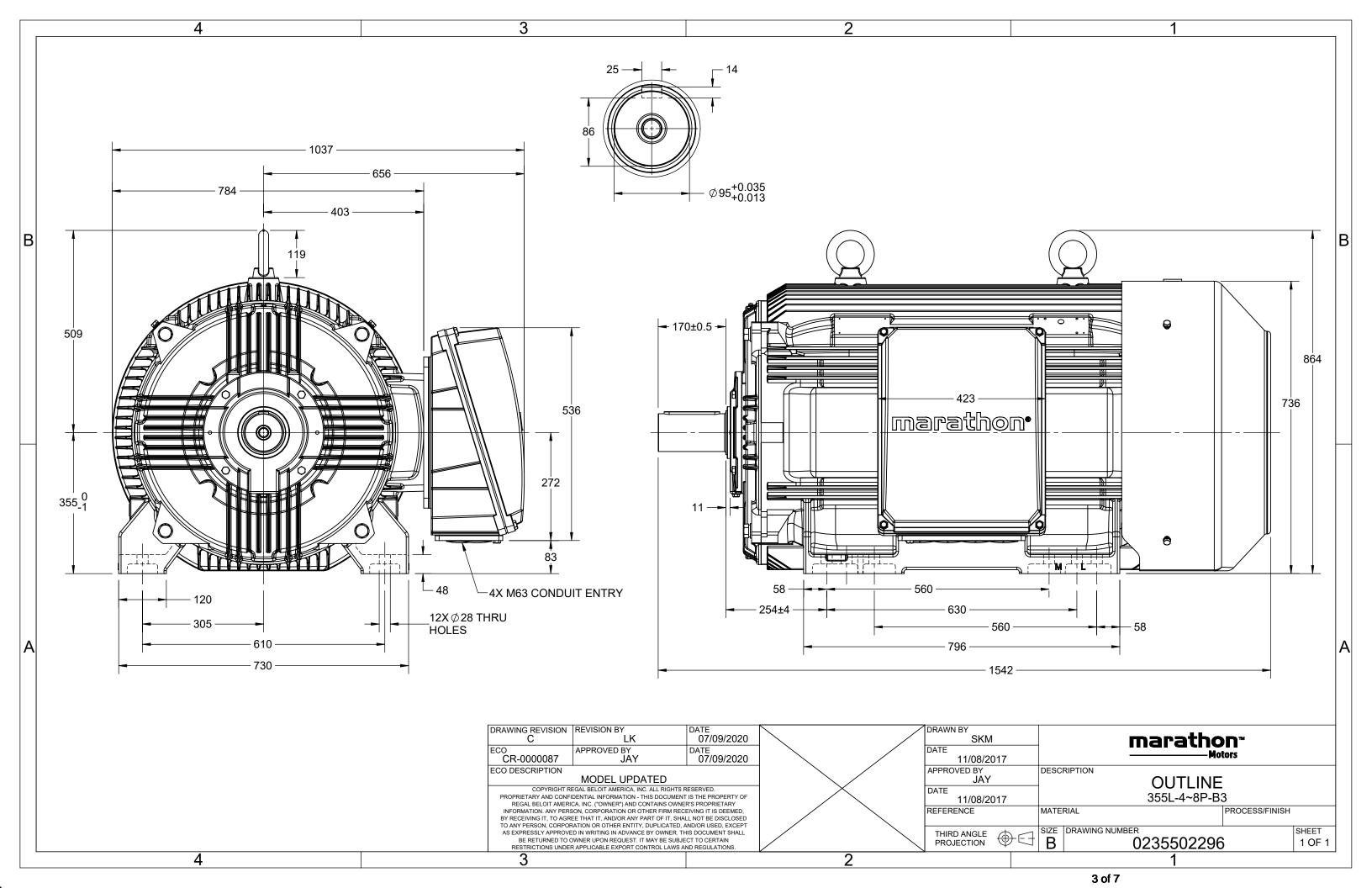
Nameplate Specifications

Output HP	200 Нр	Output KW	150.0 kW		
Frequency	50 Hz	Voltage	380 V		
Current	295.0 A	Speed	742 rpm		
Service Factor	1	Phase	3		
Efficiency	94.2 %	Power Factor	0.82		
Duty	S1	Insulation Class	F		
Fromo	05514	Faclasura	Totally Facility of Face Or alloyd		
Frame	355M	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 6322	Ambient Temperature Opp Drive End Bearing Size	40 °C 6322		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
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	R Side		
Outline Drawing	0235502296	Connection Drawing	8442000085

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Model No. TCA1504AF113GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t loa	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	150	200	295.04	742	1919.8	IE3	-	94.2	94.2	94.7	0.82	0.79	0.7	6	1.5	2.4
Motor	type				TCA				Der	aree of	protecti	on				IP 55		
Enclosu	<i>/</i> ·				TEFC					ounting		011				IM B3		
	Materia	1			Cast Iro	n				oling me						IC 411		
	ame size 355M							•	ght - ap	arox				1731		kg		
Duty									sht - app					1776		kg		
,	age variation * ± 10%						tor iner		107.			9.9098			kgm ²			
					± 5%		Load in									tomer to Provide		
•	quency variation * ± 5% hbined variation * 10%					Vibration level							2.8					
Design					N					Noise level (1meter distance from motor)					-)	65		mm/s dB(A)
Service	factor				1.0					No. of starts hot/cold/Equally spread					,	2/3/4		
	ion class				F					Starting method						DOL		
Ambier	nt tempe	erature			-20 to +4	40		°C		be of co					Direct			
			resistance	e)	80 [Class	B]		К	LR	LR withstand time (hot/cold)						15/30		S
Altitud	e above	sea lev	el		1000			meter	Dir	Direction of rotation						Bi-directional		
Hazard	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	cessorie	S							
	Temper	ature o	class		NA					Aco	cessory -	1				PTC 150°C		
Rotor t	or type Aluminum die cast					Accessory - 2						-						
Bearing	g type			A	Anti-frictio	n ball				Aco	cessory -	3				-		
DE / NC	DE bearii	ng		63	22 C3/63	22 C3			Ter	minal b	ox posit	ion				RHS		
Lubrica	rication method Regreasable			Ma	Maximum cable size/conduit size 1R >					IR x 3C x 300mm²/4 x M63 x 1.5								
Type of	fgrease		C	CHEVRO	ON SRI-2 o	r Equival	ent		Aux	xiliary te	erminal	box				NA		

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current $\rm T_A/\rm T_N$ - 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 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 --_

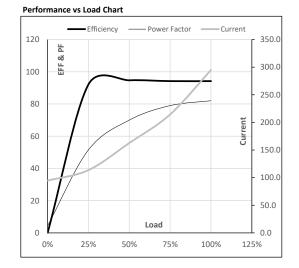
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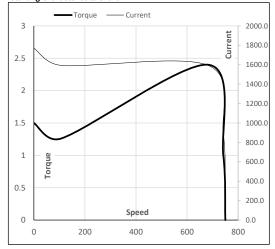
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	150	200.0	295.0	742	195.76	1919.75	IE3	40	S1	1000	9.9098	1731

Motor Load Data													
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL						
Current	А	94.6	113.6	162.7	214.4	295.0							
Torque	Nm	0.0	476.2	954.6	1435.7	1919.7							
Speed	r/min	750	748	746	744	742							
Efficiency	%	0.0	92.1	94.7	94.2	94.2							
Power Factor	%	4.4	51.5	70.0	79.0	82.0							



Starting	Characteristics	Chart



Motor Speed	Motor Speed Torque Data													
Load Point		LR	P-Up	BD	Rated	NL								
Speed	r/min	0	107	683	742	750								
Current	А	1770.2	1593.2	887.6	295.0	94.6								
Torque	pu	1.5	1.3	2.4	1	0								

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

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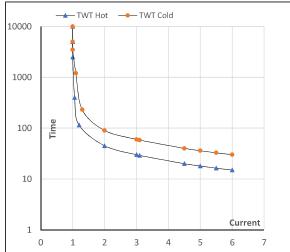
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	150	200.0	295.0	742	195.76	1919.75	IE3	40	S1	1000	9.9098	1731

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	ا ₅	LR
TWT Hot	s	10000	45	30	25	18	16	15
TWT Cold	s	10000	90	60	48	36	33	30
Current	pu	1	2	3	4	5	5.5	6

Thermal Characteristics Chart



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

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