PRODUCT INFORMATION PACKET

Model No: TCN2001A1113GAC010 Catalog No: TCN2001A1113GAC010 TerraMAX® Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 315L Frame, TEFC



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Motors

Product Information Packet: Model No: TCN2001A1113GAC010, Catalog No:TCN2001A1113GAC010 TerraMAX® Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 315L Frame, TEFC

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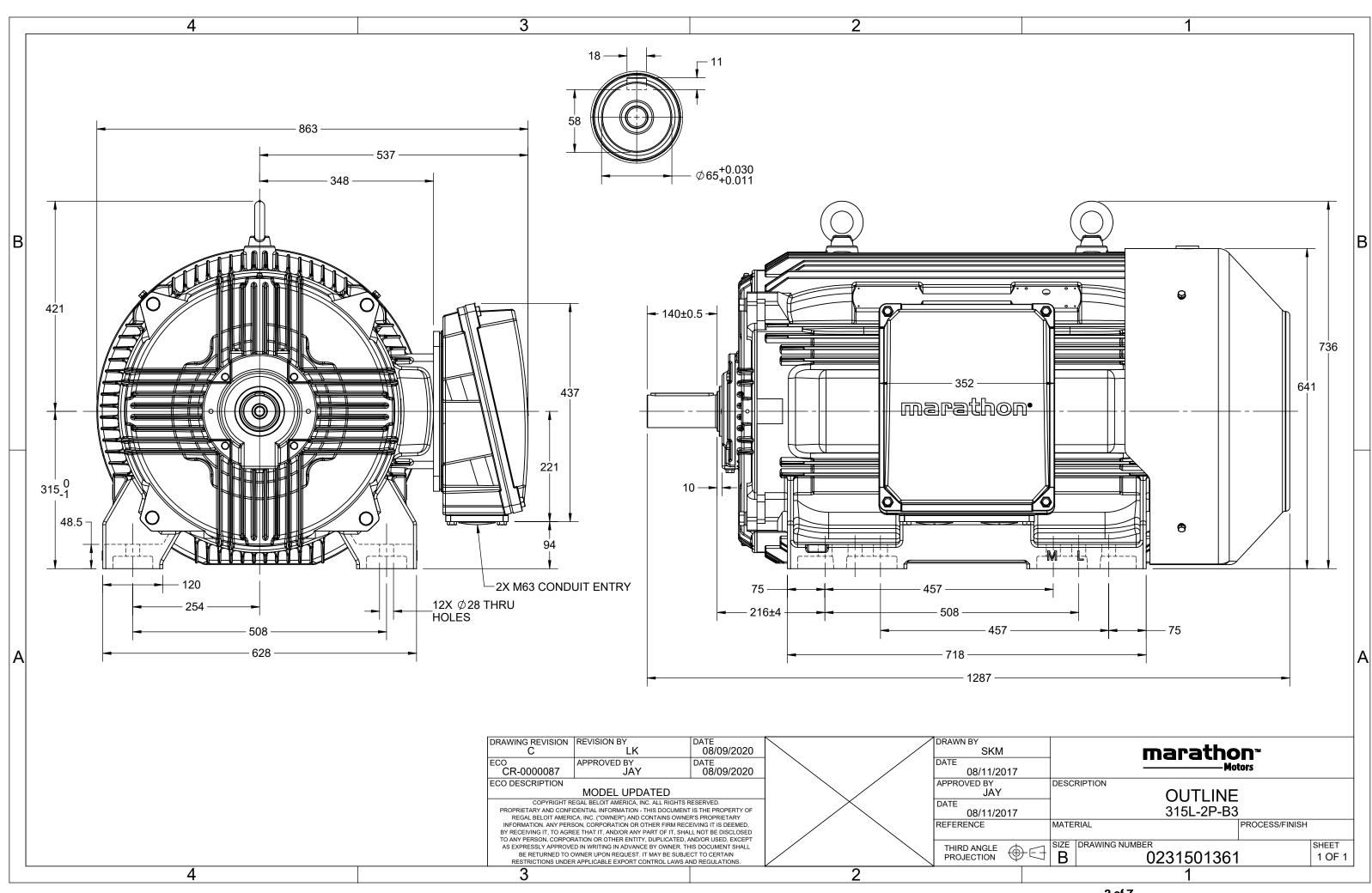
Nameplate Specifications

Output HP	270 Нр	Output KW	200.0 kW
Frequency	50 Hz	Voltage	400 V
Current	338.6 A	Speed	2984 rpm
Service Factor	1	Phase	3
Efficiency	95.8 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	315L 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 6316	Ambient Temperature Opp Drive End Bearing Size	40 °C 6316

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	1287 mm	Frame Length	840 mm	
Shaft Diameter	65 mm	Shaft Extension	140 mm	
Assembly/Box Mounting	R Side			
Outline Drawing	0231501361	Connection Drawing	8442000085	

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U	Δ / Y	f	Р	Р	I.	n	т	IE		% EFF a	t loa	d	PF	at lo	bad	I_A/I_N	T_A/T_N	T _K /T _N
(∨)	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	338.6	2984	644.39	IE3	-	95.8	95.8	94.6	0.89	0.87	0.8	7.3	2.3	3.6
Matar	t ura a				TCN				De		avataat:					IP 55		
Motor Enclosi	/1				TEFC					0	protecti	on				IM B3		
	ure Material	1			Cast Ire					ounting						IC 411		
Frame					315L					oling me	ght - ap	nrov				1230		ka
Duty	SIZE				S1						ght - ap (ht - app					1230		kg kg
	e variatio	·n *			± 10%					otor iner		ITOX.				3.0911		kgm ²
	e variatio				± 5%					ad inerti					Cust	omer to Prov	ide	Kgill
	ncy varia				10%					ration l	-				Cust	2.8	iue	mm/s
Design					N							er distar	co fron	motor	١	83		dB(A)
•	factor				1.0						•	old/Equ)	2/3/4		UD(A)
	ion class				F					rting m		olu/Lqu	any spr	eau		DOL		
	nt tempe				-20 to +	40		°C		be of co						Direct		
	rature ri		ocistano	<u>ام</u>	80 [Class			к				(hot/co	Id)			15/30		9
	e above	• •			1000			meter			of rotation	· ·	iu)		В	Bi-directional		-
	ous area				Ex nA			meter			otation	511			-	ckwise form [)F	
1102010	Zone cla				Zone					nt shad					0.00	RAL 5014	-	
	Gas gro		lion		IIC	-				cessorie								
	Temper	•	lass		Т3				7100		cessory	- 1				PTC 150°C		
Rotor t		ata e		Al	uminum D	ie cast					cessory					-		
Bearin				A	Anti-frictio	n ball					cessory					-		
	DE bearir	ng		63	16 C3/6	316 C3			Ter		ox posit					RHS		
	ation met	•			Regreasa	ble						ze/cond	uit size	1R	x 3C x 2	.40mm²/2 x N	/163 x 1.5	
	f grease			CHEVRO	DN SRI-2 c		ent				erminal					NA		

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

 T_K/T_N - Breakdown Torque / Rated Torque

NOTE

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-15

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

* Voltage, Frequency and combined variation are as per IEC60034-1

Technical da	ta are subject to chan	ge. There may be slight	variations between calculated va	lues in this datasheet	and the motor name	plate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	GEMS 2019	-	IEC:60034-30-1

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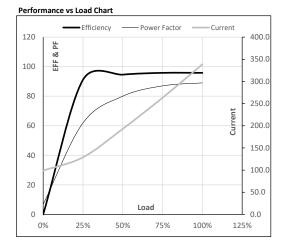




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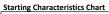
Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	200	270	338.6	2984	65.71	644.39	IE3	40	S1	1000	3.0911	1230

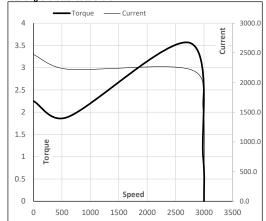
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	98.9	128.9	193.1	263.2	338.6	
Torque	Nm	0.0	160.4	321.3	482.6	644.4	
Speed	r/min	3000	2996	2992	2988	2984	
Efficiency	%	0.0	91.1	94.6	95.8	95.8	
Power Factor	%	6.8	61.9	80.0	87.0	89.0	



Motor Speed Torque Data Load Point LR P-Up BD Rated NL

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2745	2984	3000	
Current	А	2471.6	2224.4	1541.9	338.6	98.9	
Torque	pu	2.3	1.9	3.6	1	0	





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

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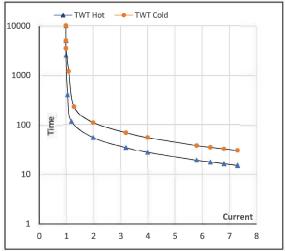
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Enclosure	U	Δ/Υ	f	Р	Р	I.	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	200	270.0	338.6	2984	65.71	644.39	IE3	40	S1	1000	3.0911	1230
			1												

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	55	39	28	24	22	15
TWT Cold	s	10000	110	80	55	50	40	30
Current	pu	1	2	3	4	5	5.5	7.3

Thermal Characteristics Chart



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

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