## **PRODUCT INFORMATION PACKET**

Model No: TCN1101A1111GAC010 Catalog No: TCN1101A1111GAC010 TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 315S Frame, TEFC



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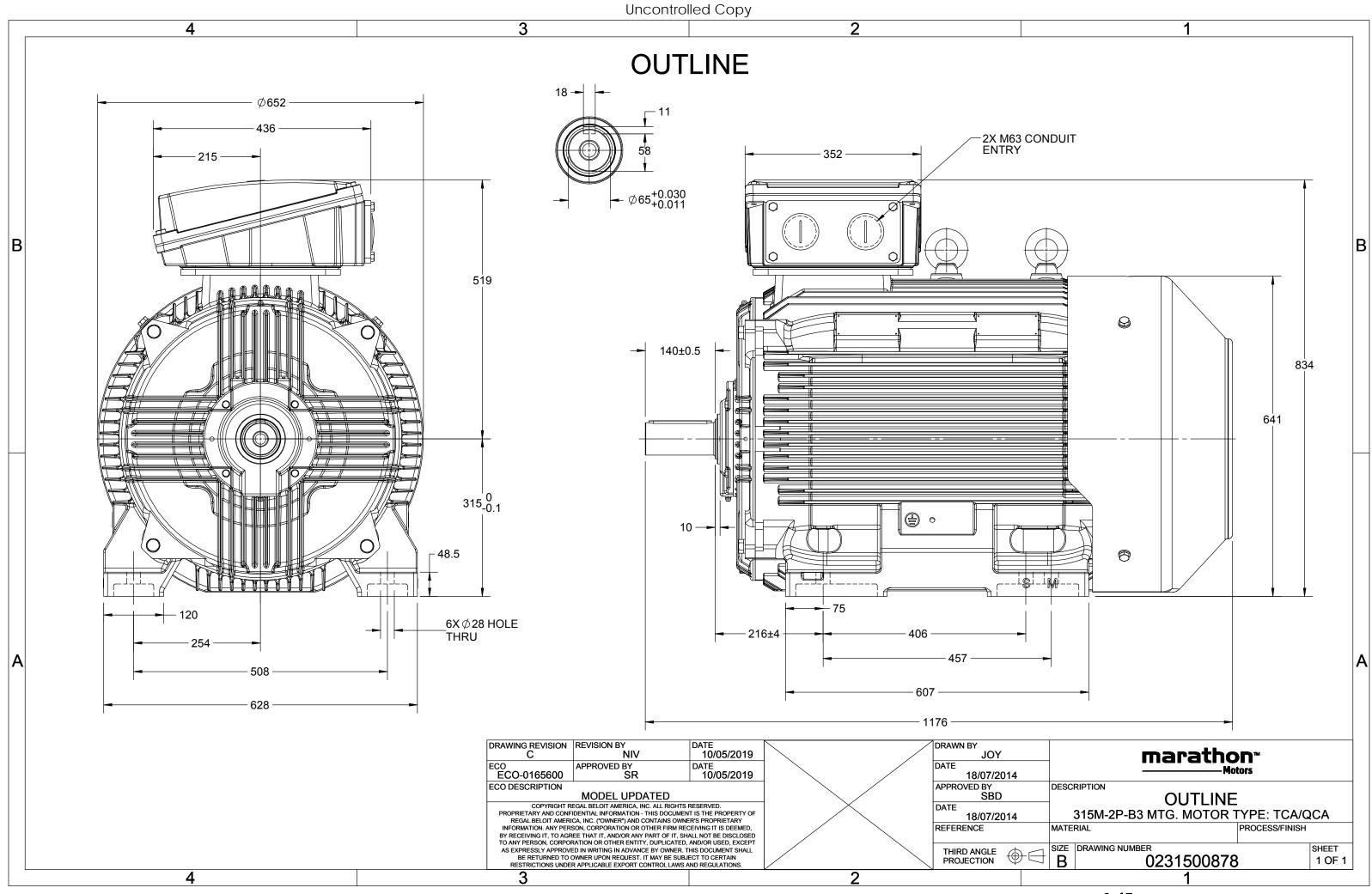
### Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	400 V
Current	189.5 A	Speed	2983 rpm
Service Factor	1	Phase	3
Efficiency	95.2 %	Power Factor	0.88
Duty	S1	Insulation Class	F
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6316
UL	No	CSA	No
UL CE	No Yes	CSA IP Code	No 55

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1176 mm	Frame Length	729 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500878	Connection Drawing	8442000085

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# **TerraMAX**<sup>®</sup>

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U	$\Delta / Y$	f	Р	Р	I	n	Т	IE		% EFF a	t load	ł	PF	at_lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(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	110	150	189.5	2983	358.07	IE3	-	95.2	95.2	92.7	0.88	0.85	0.78	7.2	2.0	3.6
•••					TCN				-							IP 55		
Motor					TEFC						protecti	on				IP 55 IM B3		
Enclos										unting								
	Material				Cast Irc	n				oling me						IC 411 974		
										ght - apı					1020		kg	
Duty										ht - app 	rox.				2.2274		kg	
U								tor iner					2.2274 k Customer to Provide			kgm <sup>2</sup>		
								id inerti					Custo		vide			
		ation *			10%					ration l			,			2.8		mm/s
Design					N						•			n motor	)	83		dB(A)
Service					1.0						ts hot/c	old/Equ	ally spr	ead		2/3/4		
	ion class				F	40			Starting method						DOL			
	nt tempe				-20 to +			°C		e of co					Direct			
	rature ri	• • •		e)	80 [ Class	B ]		K			nd time	· ·	ld)		15/30 s			
	e above				1000			meter		Direction of rotation						i-directiona		
Hazard	lous area				Ex nA					ndard r					Clockwise form DE			
	Zone cla		tion		Zone	2				nt shad						RAL 5014		
	Gas gro	•			IIC				Acc	essorie								
	Temper	ature o	lass		Т3						cessory -				PTC 150°C			
	otor type Aluminum Die cast						Accessory - 2						-					
Bearin					nti-frictio						cessory ·					-		
-	DE beariı	•		63	16 C3/6						ox posit					TOP		
	ation me	thod			Regrease						cable si		uit size	1R	x 3C x 2	40mm²/2 x	M63 x 1.5	
Туре о	f grease			CHEVRO	DN SRI-2 o	r Equival	ent		Aux	kiliary te	erminal	box				NA		

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

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

 $T_A/T_N$  - Locked Rotor 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 calculate	d values in this datash	eet and the motor na	ameplate 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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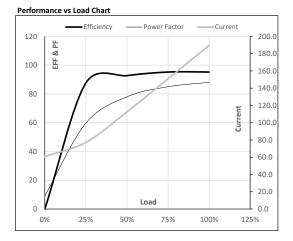


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Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	110	150	189.5	2983	36.51	358.07	IE3	40	S1	1000	2.2274	974

#### Motor Load Data

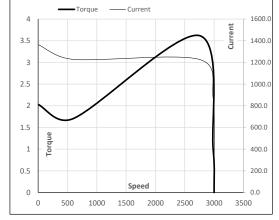
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	60.7	77.2	112.5	150.9	189.5	
Torque	Nm	0.0	89.1	178.5	268.2	358.1	
Speed	r/min	3000	2996	2992	2987	2983	
Efficiency	%	0.0	87.6	92.7	95.2	95.2	
Power Factor	%	9.1	59.7	78.0	85.0	88.0	



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2744	2983	3000	
Current	А	1364.5	1228.1	869.8	189.5	60.7	
Torque	pu	2.0	1.7	3.6	1	0	

### Starting Characteristics Chart



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

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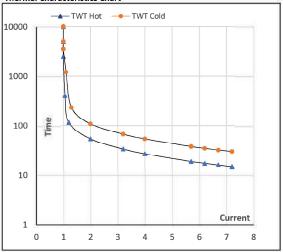
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	110	150.0	189.5	2983	36.51	358.07	IE3	40	S1	1000	2.2274	974

### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	4	l <sub>5</sub>	LR
TWT Hot	s	10000	54	39	27	24	22	15
TWT Cold	S	10000	108	80	54	50	40	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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