## **PRODUCT INFORMATION PACKET**

Model No: TCN2001A1133GAC010 Catalog No: TCN2001A1133GAC010 TerraMAX® Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 315L Frame, TEFC



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marathon<sup>®</sup>

Motors

Product Information Packet: Model No: TCN2001A1133GAC010, Catalog No:TCN2001A1133GAC010 TerraMAX® Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 315L Frame, TEFC

# marathon®

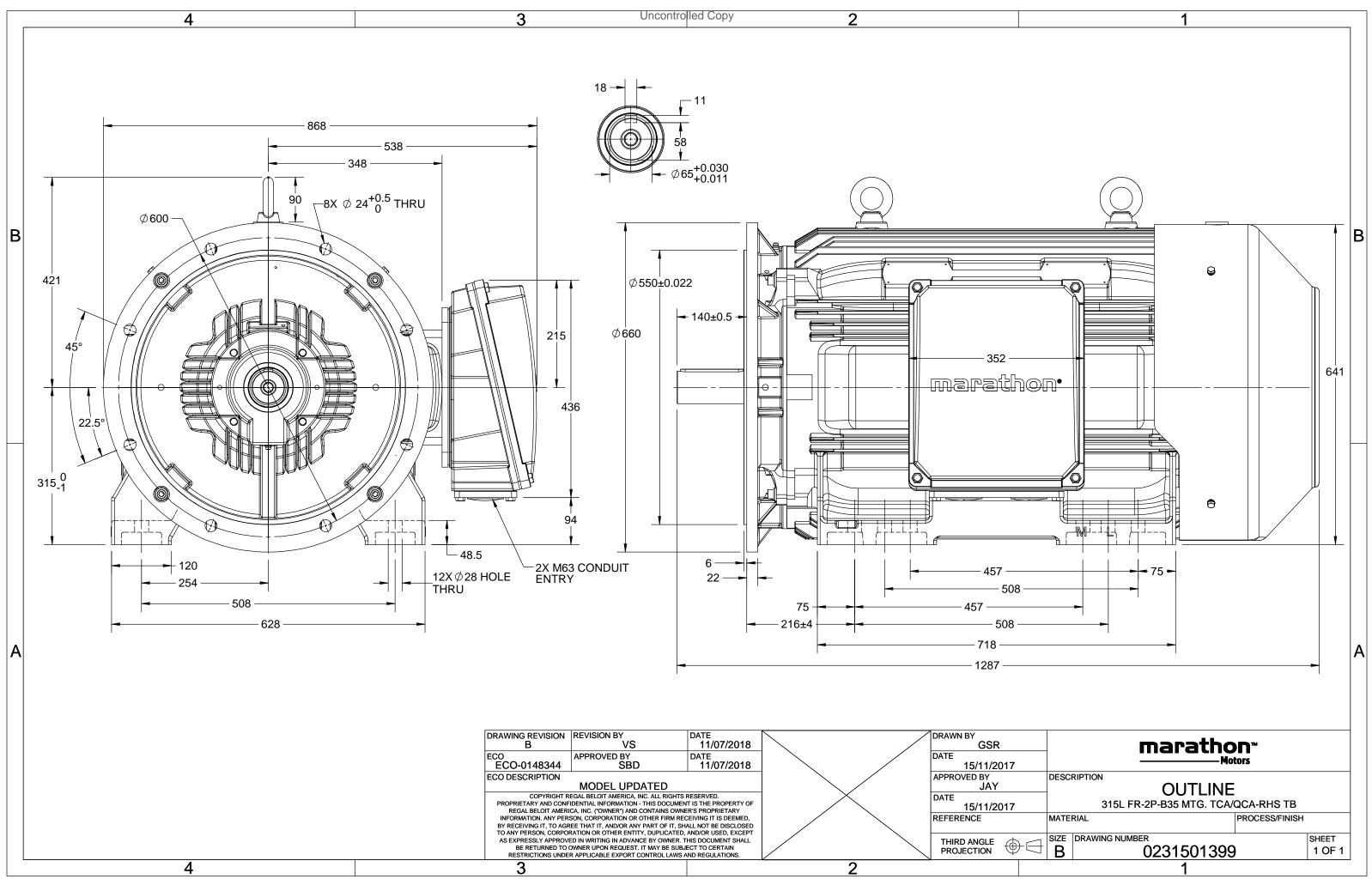
## Nameplate Specifications

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
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	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	C3
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		
Connection Drawing	8442000085	Outline Drawing	0231501399

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# **TerraMAX**<sup>®</sup>

### Model No. TCN2001A1133GAC010

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Image: Application of the state of	-					-		-		5/4FI									
Motor type   TCN   Degree of protection   IP 55     Enclosure   TEFC   Mounting type   IM 835     Frame Material   Cast Iron   Cooling method   IC 411     Frame size   315L   Motor weight - approx.   1254   kg     Outy   S1   Gross weight - approx.   1299   kg     Voltage variation *   ± 10%   Motor inertia   3.0911   kgm     Combined variation *   ± 0%   Vibration level   2.8   mm/s     Design   N   Noise level (1meter distance from motor)   83   dB(A)     Service factor   1.0   No. of starts hot/cold/Equally spread   2/3/4     Insulation class   F   Starting method   DOL     Ambient temperature   -20 to +40   °C   Type of coupling   Direct     Hazardous area classification   Zone 2   Direct   Standard rotation   Clockwise form DE     Zone classification   Zone 2   Gas group   IIC   Accessory - 1   PTC 150°C     Rotor type   Aluminum Die cast   Accessory - 2   -   Accessory - 3   -     Bearin	. ,						. ,			-					,				
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	DE / N	DE beari	ng		63	16 C3/6	316 C3			Ter	minal b	ox positi	on				RHS		
Type of grease CHEVRON SBI-2 or Equivalent Auxiliary terminal box NA	Lubrica	ation me	thod			Regrease	able			Ma	ximum	cable siz	e/conduit	size	1R	x 3C x 2	40mm²/2 x N	163 x 1.5	
	Туре о	of grease			CHEVRO	ON SRI-2 c	or Equival	ent		Au	xiliary te	erminal b	юх				NA		

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

 $T_A/T_N$  - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$  - 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	change. There may be slight vari	ations between calculated	d values in this datashee	t and the motor namepl	ate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC

Standards	IEC:60034-30-1	-	-	GEMS 2019	-	IEC:60034-30-1



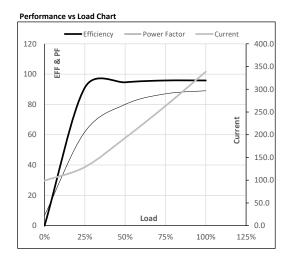




Model No. TCN2001A1133GAC010

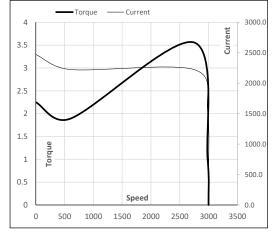
Enclosure	U	$\Delta / Y$	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	200	270	338.6	2984	65.71	644.39	IE3	40	S1	1000	3.0911	1254

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 Da	ta				
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

### Starting Characteristics Chart



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

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# **TerraMAX**<sup>®</sup>

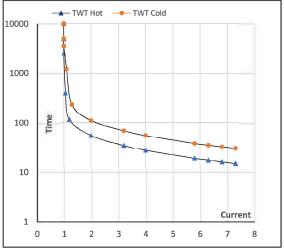
### Model No. TCN2001A1133GAC010

Enclosure	U	Δ/Υ	f	Р	Р	1	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	200	270.0	338.6	2984	65.71	644.39	IE3	40	S1	1000	3.0911	1254

### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	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



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

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