## **PRODUCT INFORMATION PACKET**

Model No: TCA18P3A1133GAC010 Catalog No: TCA18P3A1133GAC010 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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# marathon®

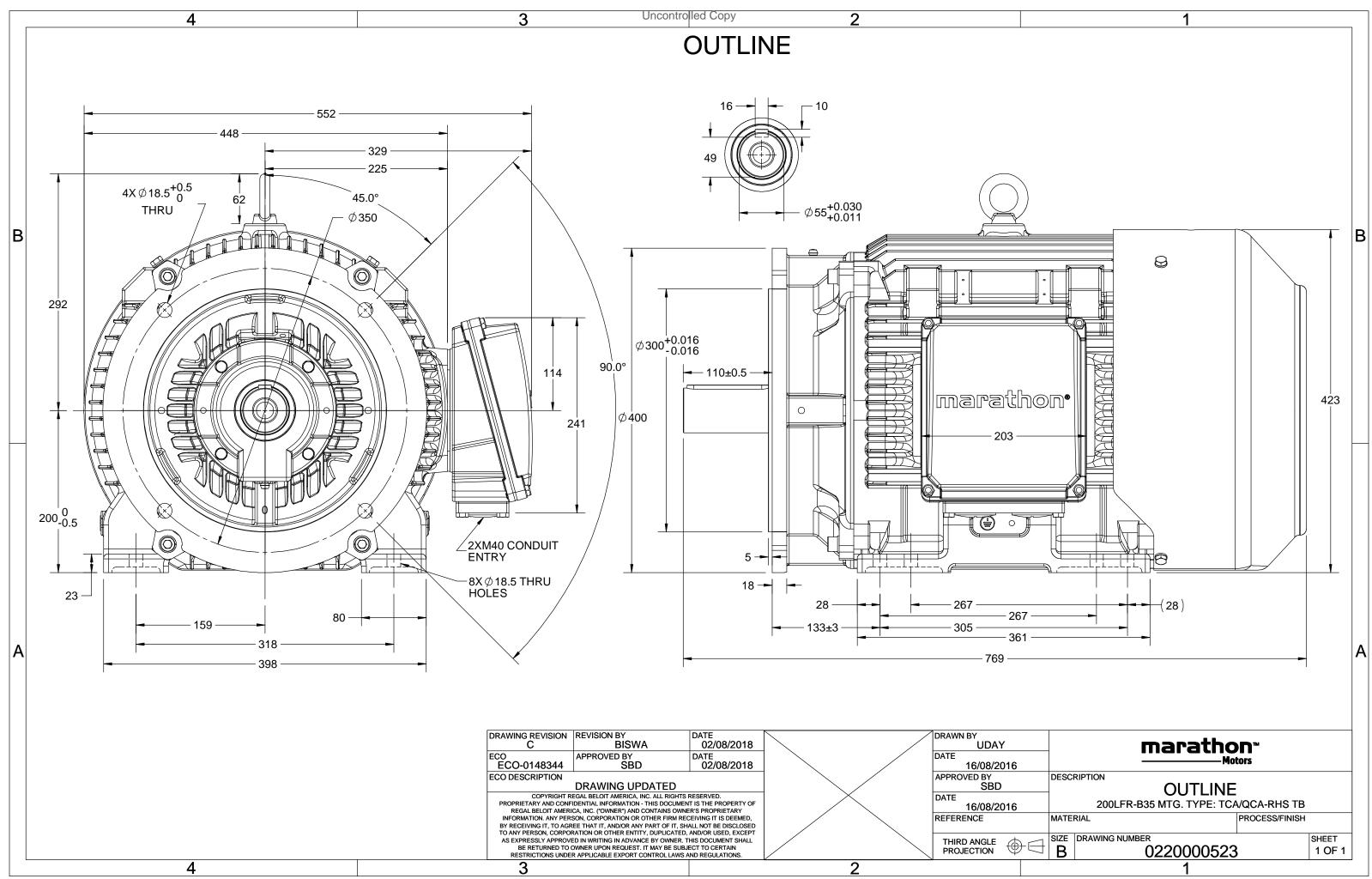
### Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW		
Frequency	50 Hz	Voltage	400 V		
Current	36.4 A	Speed	984 rpm		
Service Factor	1	Phase	3		
Efficiency	91.7 %	Power Factor	0.8		
Duty	S1	Insulation Class	F		
Frame	200L	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212		
UL	No	CSA	Νο		
CE	Yes	IP Code	55		

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0220000523	Connection Drawing	8442000085

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# **TerraMAX**<sup>®</sup>

#### Model No. TCA18P3A1133GAC010

$U  \Delta / Y  f$	P F	р I	n	Т	IE		% EFF a	t load	ł	PF	at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(V) Conn [Hz] [k	W] [h	p] [A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 Δ 50 18	3.5 2	5 36.4	984	181.04	IE3	-	91.7	91.7	91.6	0.8	0.74	0.62	5.8	2.0	2.4
		TOA											10.55		
Motor type		TCA						protecti	on				IP 55		
Enclosure		TEFC					unting						IM B35		
Frame Material		Cast Irc	n				oling me						IC 411		
Frame size		200L						ght - ap					266		kg
Duty		S1				Gro	oss weig	ht - app	rox.				296		kg
Voltage variation *		± 10%				Mo	tor iner	tia					0.5179		kgm <sup>2</sup>
Frequency variation *		± 5%				Loa	d inerti	а				Custo	omer to Prov	ide	
Combined variation *		10%				Vib	ration l	evel					2.2		mm/s
Design		N				Noi	ise level	(1mete	er dista	nce fror	n motor	.)	62		dB(A)
Service factor		1.0				No	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation class		F				Sta	rting m	ethod					DOL		
Ambient temperature		-20 to +	40		°C	Тур	e of co	upling					Direct		
Temperature rise (by resis	stance)	80 [ Class	в]		К	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitude above sea level		1000			meter	Dir	ection c	of rotatio	on			В	i-directional		
Hazardous area classificat	ion	NA				Sta	ndard r	otation				Cloc	kwise form D	DE	
Zone classification		NA				Pai	nt shad	e					RAL 5014		
Gas group		NA				Acc	essorie	S							
Temperature class		NA					Acc	essory -	1				PTC 150°C		
Rotor type		Aluminum D	ie cast				Acc	cessory -	2				-		
Bearing type		Anti-frictio	n ball				Acc	cessory -	3				-		
DE / NDE bearing		6312 C3/62	212 C3			Ter	minal b	ox posit	ion				RHS		
Lubrication method		Regreasa	ble					cable si		luit size	1R	x 3C x 5	50mm²/2 x M	40 x 1.5	
Type of grease	CHE	VRON SRI-2 o	r Equival	ent				erminal					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 --\_



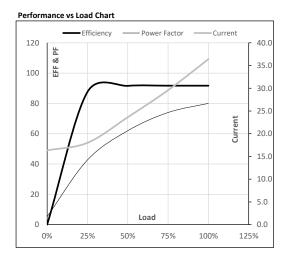


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Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	18.5	25.0	36.4	984	18.46	181.04	IE3	40	S1	1000	0.5179	266

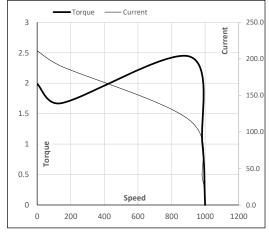
### Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	16.3	18.0	23.6	29.6	36.4	
Torque	Nm	0.0	44.7	89.7	135.2	181.0	
Speed	r/min	1000	996	992	988	984	
Efficiency	%	0.0	87.6	91.6	91.7	91.7	
Power Factor	%	5.3	42.7	62.0	74.0	80.0	



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	143	905	984	1000					
Current	А	211.1	190.0	116.5	36.4	16.3					
Torque	pu	2.0	1.7	2.4	1	0					





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

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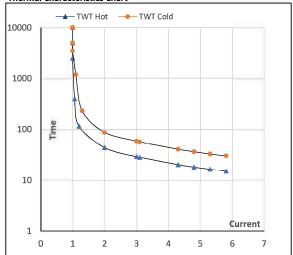
Model No. TCA18P3A1133GAC010

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 <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	18.5	25.0	36.4	984	18.46	181.04	IE3	40	S1	1000	0.5179	266

#### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	LR
TWT Hot	S	10000	44	29	22	17	16	15
TWT Cold	S	10000	87	58	43	38	31	30
Current	pu	1	2	3	4	5	5.5	5.8

Thermal Characteristics Chart



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

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