## **PRODUCT INFORMATION PACKET**

Model No: TCA18P3A1141GAC010 Catalog No: TCA18P3A1141GAC010 TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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## marathon®

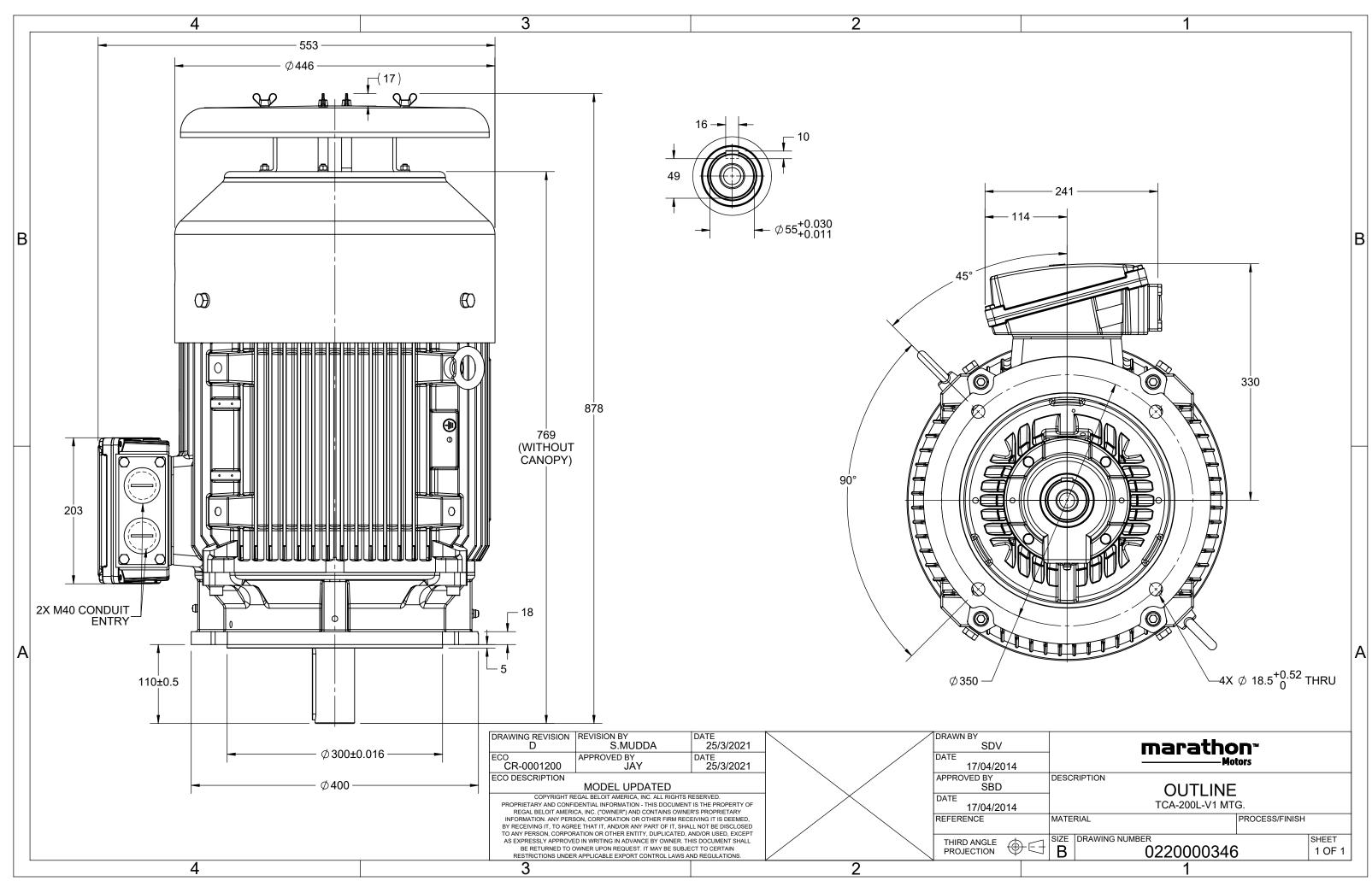
## Nameplate Specifications

Output HP	25 Нр	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	Νο	CSA	No		
CE	Yes	IP Code	55		
Efficiency Class	IE3				

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	876 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0220000346

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3 of 7





# **TerraMAX**<sup>®</sup>

#### Model No. TCA18P3A1141GAC010

U Δ/Y f 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\	<i>N</i> ] [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	.5 25	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
Motor type		TCA				Do	troo of	protecti	on				IP 55		
Enclosure		TEFC					unting		011				IM V1		
Frame Material		Cast Irc					oling me						IC 411		
Frame size		200L					•	ght - ap	nrov				268		kg
Duty		200L S1						-					298		∧g kg
Voltage variation * ± 10%							Gross weight - approx. Motor inertia						0.5179		
Frequency variation * ±5%							d inerti					Customer to Provide			kgm <sup>2</sup>
Combined variation *		10%					ration l					2.2			mm/s
Design		N							er dista	nce fror	n motor				dB(A)
Service factor		1.0					No. of starts hot/cold/Equally spread					2/3/4			a.b.(, , ,
Insulation class		F					rting m			uny spi	cuu		DOL		
Ambient temperature		-20 to +	40		°C		e of co						Direct		
Temperature rise (by resis	tance)	80 [ Class	5 B 1		К			nd time	(hot/co	ld)			15/30		S
Altitude above sea level	uncey	1000	-		meter			of rotatio	• •	10)		В	i-directional		5
Hazardous area classificati	on	NA			ineter		ndard r					Cloc	ckwise form D	DE	
Zone classification		NA					nt shad						RAL 5014		
Gas group		NA					essorie								
Temperature class		NA					Acc	cessory -	- 1				PTC 150°C		
Rotor type		Aluminum D	ie cast					essory -					-		
Bearing type		Anti-frictio	n ball					, essory -					-		
DE / NDE bearing		6312 C3/6	212 C3			Ter		ox posit					ТОР		
Lubrication method		Regreasa	ble					cable siz		luit size	1R	x 3C x 5	50mm²/2 x M	40 x 1.5	
Type of grease	CHE	VRON SRI-2 o	r Equiva	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 --\_



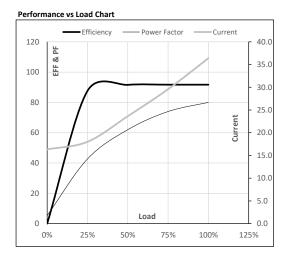


## Model No. TCA18P3A1141GAC010

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	268

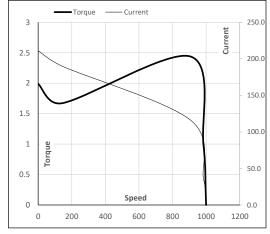
## Motor Load Data

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	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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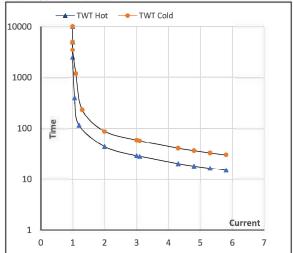
Model No. TCA18P3A1141GAC010

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	268

### Motor Speed Torque Data

Load	-	FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	۱ <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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