## **PRODUCT INFORMATION PACKET**

Model No: TCA0371A1141GAC010 Catalog No: TCA0371A1141GAC010 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 200L Frame, TEFC



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Product Information Packet: Model No: TCA0371A1141GAC010, Catalog No:TCA0371A1141GAC010 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 200L Frame, TEFC

# marathon®

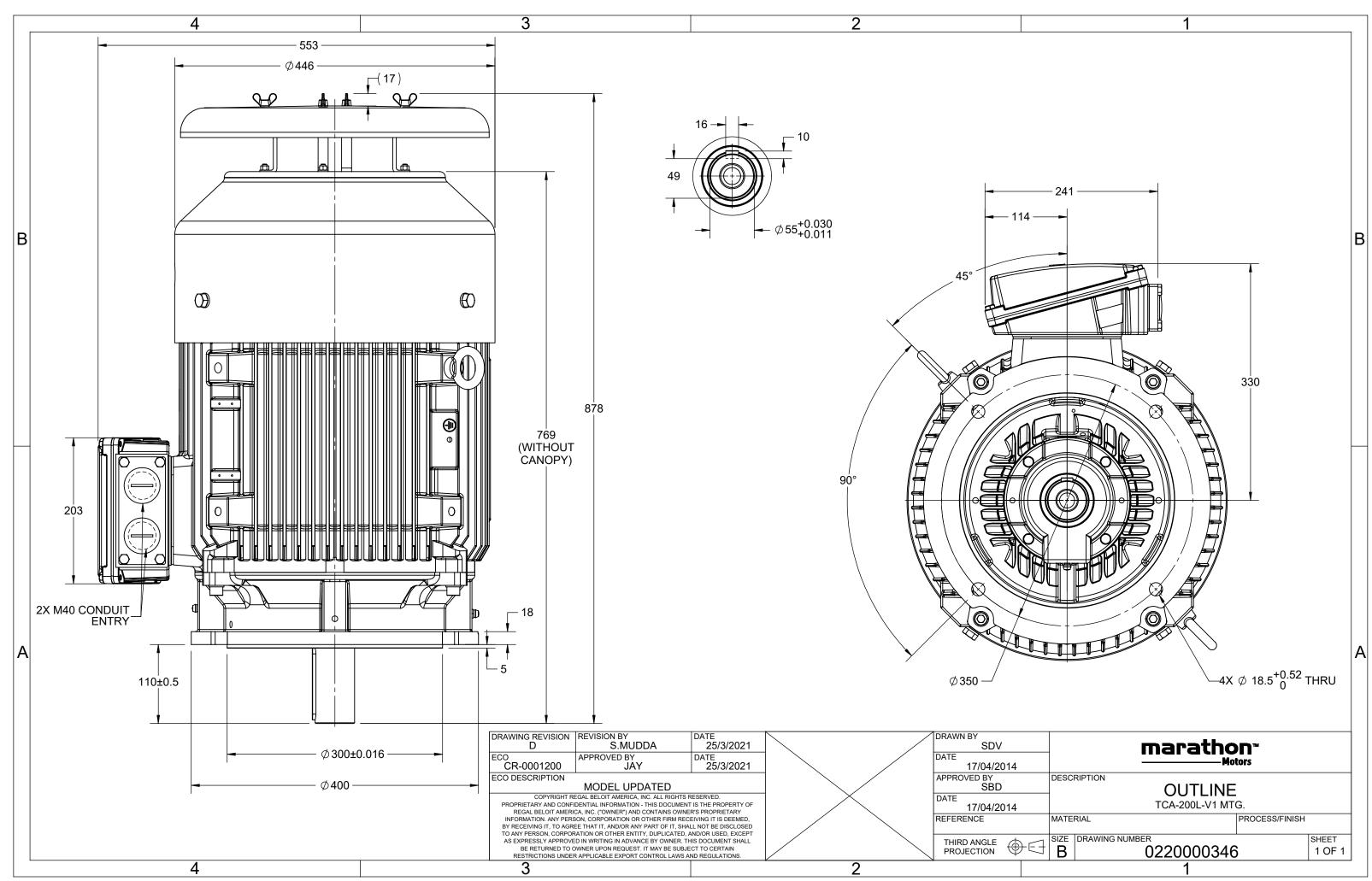
## Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	400 V
Current	66.3 A	Speed	2974 rpm
Service Factor	1	Phase	3
Efficiency	93.7 %	Power Factor	0.86
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
Efficiency Class	IE3		

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Shaftdown
Drive End Bearing	С3	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		
Outline Drawing	0220000346	Connection Drawing	8442000085

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3 of 7





# **TerraMAX**<sup>®</sup>

#### Model No. TCA0371A1141GAC010

υ Δ	\ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t loa	ł	PF	at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(V) C	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	37	50	66.3	2974	119.73	IE3	-	93.7	93.7	92.5	0.86	0.82	0.72	7.8	2.4	3.8
Motor typ	<b>n</b> 0				TCA				Do	aroo of	protecti	<b>~</b>				IP 55		
Enclosure					TEFC					ounting		011				IM V1		
Frame Ma		1			Cast Irc					-						IC 411		
Frame size		-			200L	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				oling me	ght - ap	nrov				309		ka
Duty	e				200L S1						ght - ap					339		kg
Voltage va	ariatio	n *			± 10%					otor iner		iox.				0.2934		kg kgm <sup>2</sup>
Frequency					± 5%	,				ad inerti					Cust	omer to Pro	vido	Kgill
Combined	•				10%					oration l					Cusi	2.2	viue	
	u varia	ition .			10%							or dista	ana fran	n na atau	.)	73		mm/s
Design Service fa					1.0						•			n motor	)	2/3/4		dB(A)
					1.0 F						ts hot/c	ola/Equ	ally spr	ead		DOL		
Insulation					-20 to +	40		00		irting m						Direct		
Ambient t					80 [ Class			°C		be of co		11						
Temperat		• •		2)	1000	ЪЪ]		K			nd time	• •	ia)			15/30 i-directiona	1	S
Altitude a			-		NA			meter			of rotation	on			-	ckwise form	•	
Hazardou					NA					indard r					CIOC	RAL 5014	DE	
		assifica	tion		NA					nt shad						KAL 5014		
	as gro	•			NA				AC	cessorie		4				PTC 150°C		
		ature o	lass	۸.۱.	uminum D	via cast					cessory					PTC 150 C		
Rotor type					nti-frictio						cessory -					-		
Bearing ty					L2 C3 / 6				т		cessory -					TOP		
DE / NDE		•		05.	Regreasa						ox posit		uit eir -	1 D	v 3C v 1	50mm²/2 x I	M40 v 1 5	
Lubricatio		moa	6		N SRI-2 o		ont				cable si		uit size	TU	A JUX :	NA	VI-10 X 1.5	
Type of gr	rease		, c	LIEVRU	IN SRI-2 0	i Equival	ent		Au	xillary te	erminal	XOQ				NA		

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

 $T_{\rm K}/T_{\rm N}$  - Breakdown 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.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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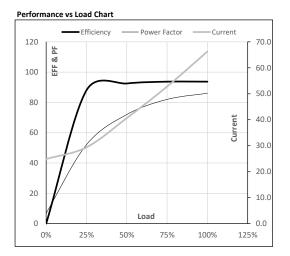
## **TerraMAX**<sup>®</sup>

### Model No. TCA0371A1141GAC010

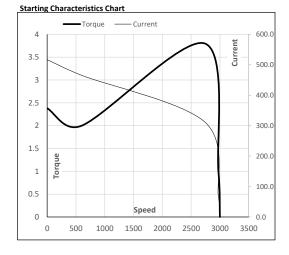
Enclosure	U	$\Delta / Y$	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	37	50.0	66.3	2974	12.21	119.73	IE3	40	S1	1000	0.2934	309

#### Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	24.9	29.4	40.6	52.8	66.3	
Torque	Nm	0.0	29.7	59.6	89.6	119.7	
Speed	r/min	3000	2993	2987	2981	2974	
Efficiency	%	0.0	88.0	92.5	93.7	93.7	
Power Factor	%	6.9	52.1	72.0	82.0	86.0	



Motor Speed	Torque Dat	a					Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL													
Speed	r/min	0	600	2736	2974	3000													
Current	А	516.9	465.2	312.3	66.3	24.9													
Torque	pu	2.4	2.0	3.8	1	0													



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

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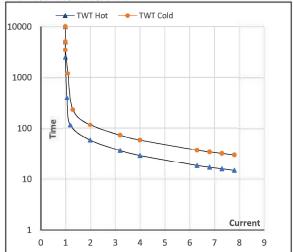
Model No. TCA0371A1141GAC010

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	37	50.0	66.3	2974	12.21	119.73	IE3	40	S1	1000	0.2934	309

#### Motor Speed Torque Data

Load		FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	1 <sub>5</sub>	LR
TWT Hot	s	10000	59	40	30	25	22	15
TWT Cold	s	10000	117	80	59	45	40	30
Current	pu	1	2	3	4	5	5.5	7.8

Thermal Characteristics Chart



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

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