PRODUCT INFORMATION PACKET

Model No: TCA0373A1113GAC010 Catalog No: TCA0373A1113GAC010 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 250M Frame, TEFC



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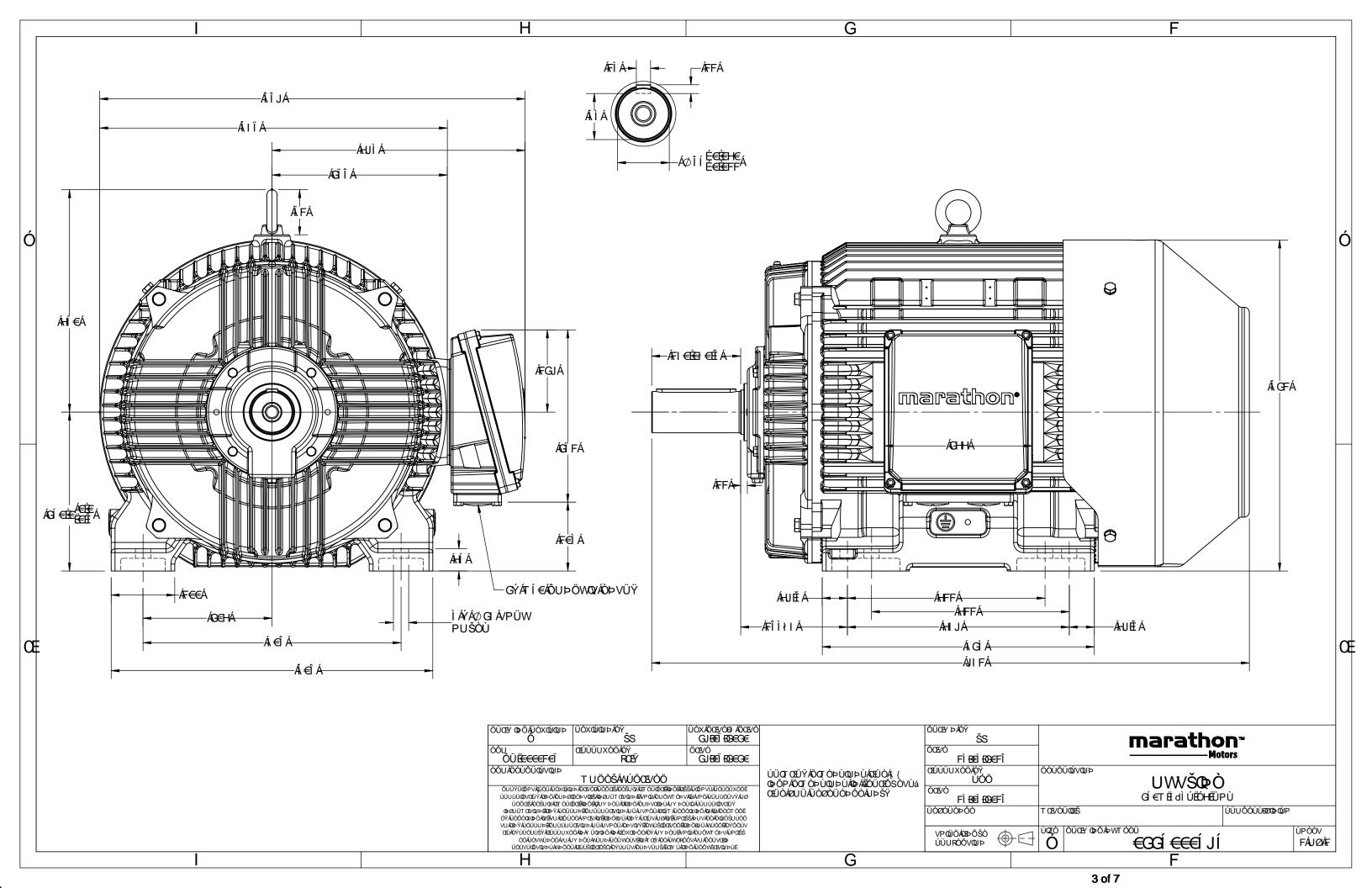
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	400 V
Current	69.8 A	Speed	987 rpm
Service Factor	1	Phase	3
Efficiency	93.3 %	Power Factor	0.82
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	No	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	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	941 mm	Frame Length	460 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0225000595	Connection Drawing	8442000085

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TerraMAX[®]

Model No. TCA0373A1113GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t_load	ł	PF	at lo	ad	I _A /I _N	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	37	50	69.8	987	360.77	IE3	-	93.3	93.3	92.8	0.82	0.76	0.64	6.8	2.4	2.9
<u> </u>																		
					TCA				-									
Motor t					TCA						orotecti	on				IP 55		
Enclosu					TEFC					ounting t						IM B3		
	Material	I			Cast Irc					oling me						IC 411 488		
Frame s	size				250M						ght - apı						kg	
Duty					S1									523		kg		
	e variatio				± 10%)				Motor inertia Load inertia						1.6082		kgm ²
•	ency variation * ± 5%										Custo	omer to Provi	de					
	ned variation * 10%					ration l						2.2		mm/s				
Design		N				No	Noise level (1meter distance from motor))	65		dB(A)				
Service							No. of starts hot/cold/Equally spread					2/3/4						
Insulati	on class				F					Starting method						DOL		
Ambien	nt tempe	erature			-20 to +			°C		e of co	upling					Direct		
Temper	rature ri	se (by i	resistance	e)	80 [Class	5 B]		K	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitude	e above	sea lev	el		1000			meter	Dir	ection c	f rotatio	on			-	i-directional		
Hazardo	ous area	a classif	fication		NA				Sta	ndard r	otation				Cloc	kwise form D	Ε	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	S							
	Temperature class NA					Accessory - 1						PTC 150°C						
Rotor ty	type Aluminum Die cast					Accessory - 2						-						
Bearing	g type			A	nti-frictio	n ball				Acc	essory -	3				-		
DE / NC	DE bearii	ng		631	14 C3/63	314 C3			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod			Regreasa	ble			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 9	95mm²/2 x M	50 x 1.5	
Type of	fgrease		C	HEVRO	ON SRI-2 o	r Equival	ent		Aux	kiliary te	erminal	box				NA		

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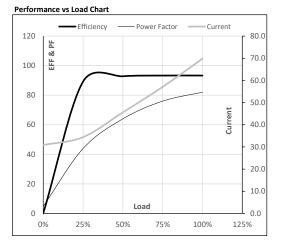




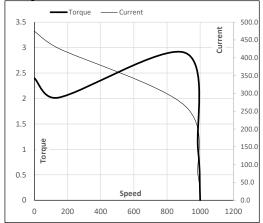
Model No. TCA0373A1113GAC010

Enclosure	U	Δ / 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 ²]	[kg]
TEFC	400	Δ	50	37	50.0	69.8	987	36.79	360.77	IE3	40	S1	1000	1.6082	488
	400	Δ	50	57	50.0	05.8	507	50.75	500.77	ILJ	40	51	1000	1.0082	-

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	30.9	34.4	45.6	57.1	69.8	
Torque	Nm	0.0	89.3	179.2	269.6	360.8	
Speed	r/min	1000	997	994	991	987	
Efficiency	%	0.0	89.2	92.8	93.3	93.3	
Power Factor	%	4.8	43.9	64.0	76.0	82.0	



Starting Characteristics Chart



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

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Motor Speed Torque Data

r/min

А

pu

LR

0

474.7

2.4

P-Up

143

427.2

2.0

BD

908

265.4

2.9

Rated

987

69.8

1

NL

1000

30.9

0

Load Point

Speed

Current

Torque

REGAL





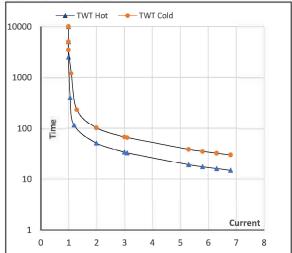
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	37	50.0	69.8	987	36.79	360.77	IE3	40	S1	1000	1.6082	488

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	1 ₅	LR
TWT Hot	s	10000	51	34	30	23	18	15
TWT Cold	s	10000	102	68	60	41	36	30
Current	pu	1	2	3	4	5	5.5	6.8

Thermal Characteristics Chart



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

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