PRODUCT INFORMATION PACKET

Model No: TCA0372A1113GAC010 Catalog No: TCA0372A1113GAC010 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 225S Frame, TEFC



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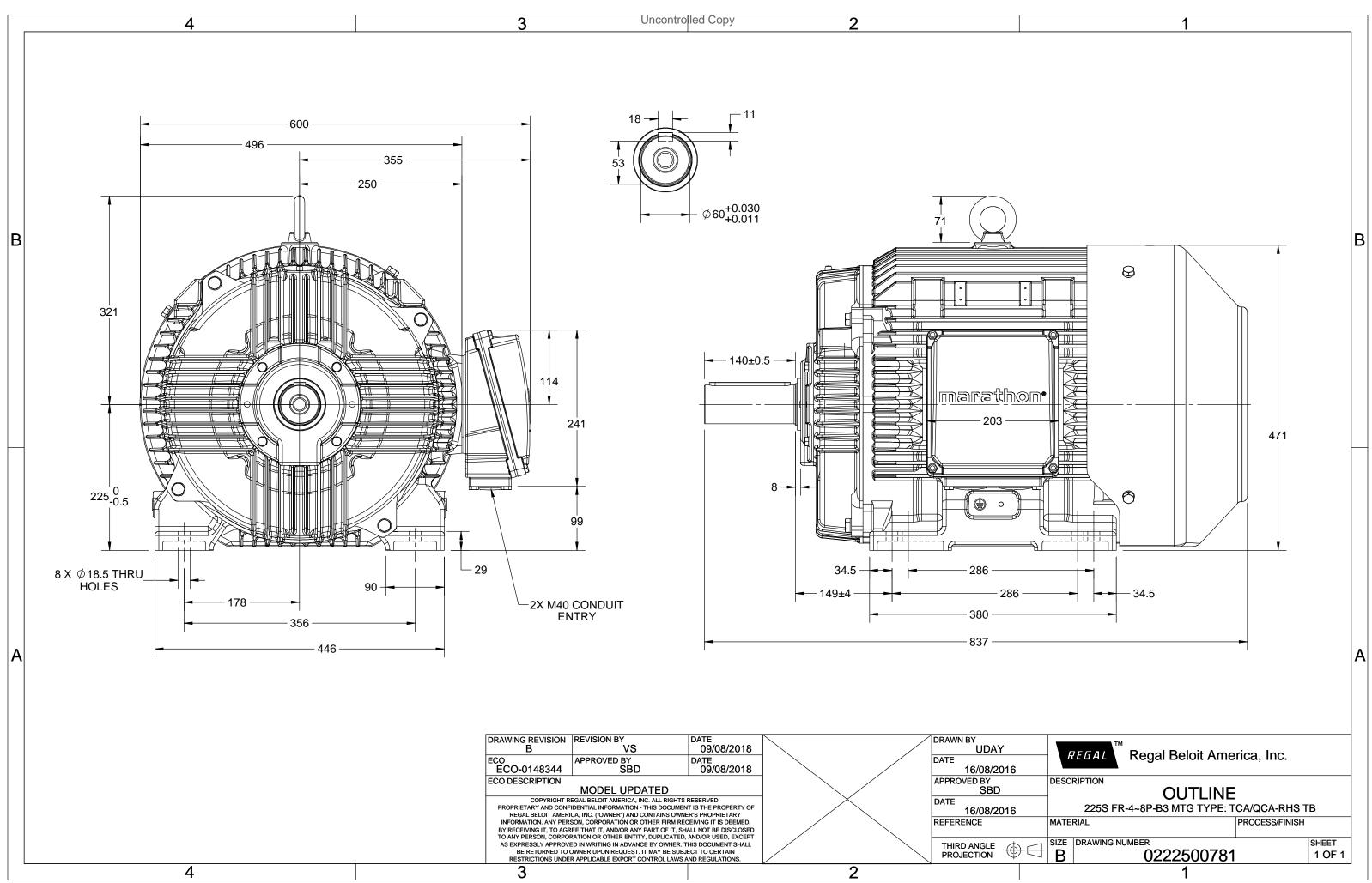
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	400 V
Current	66.9 A	Speed	1484 rpm
Service Factor	1	Phase	3
Efficiency	93.9 %	Power Factor	0.85
Duty	S1	Insulation Class	F
Frame	2258	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213
UL	No	CSA	Νο
CE	Yes	IP Code	55
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	837 mm	Frame Length	400 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0222500781	Connection Drawing	8442000085

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TerraMAX[®]

Model No. TCA0372A1113GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load	I	PF	at lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	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	66.9	1484	239.99	IE3	-	93.9	93.9	94	0.85	0.81	0.71	7.3	2.4	3.1
Motor t	type				TCA				De	gree of	orotecti	on				IP 55		
Enclosu					TEFC					ounting						IM B3		
Frame I	Materia	I			Cast Irc	on				oling me						IC 411		
Frame s	size				2255						ght - app	orox.				381		kg
Duty					S1				Gro	oss weig	ht - app	rox.				401		kg
Voltage	variatio	on *			± 10%	5			Mc	tor iner	tia					0.6683		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	ad inerti	а				Cust	omer to Pro	vide	
Combin	ed varia	ation *			10%				Vib	ration l	evel					2.2		mm/s
Design					Ν				No	ise level	(1mete	er dista	nce fror	n motor	r)	65		dB(A)
Service	factor				1.0				No	. of star	ts hot/co	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F				Sta	rting m	ethod					DOL		
Ambien	nt tempe	erature			-20 to +	40		°C	Тур	be of co	upling					Direct		
Temper	rature ri	se (by i	resistance	e)	80 [Class	5 B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		s
Altitude	e above	sea lev	el		1000			meter	Dir	ection c	f rotatio	n			В	i-directiona	I	
Hazardo	ous area	a classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	е					RAL 5014		
	Gas gro	up			NA				Aco	cessorie	S							
	Temper	ature o	class		NA					Acc	essory -	1				PTC 150°C		
Rotor ty	ype			Alu	iminum D)ie cast				Acc	essory -	2				-		
Bearing	type			A	nti-frictio	n ball				Acc	essory -	3				-		
DE / NC	DE beari	ng		631	.3 C3/6	213 C3			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod			Regreasa	able			Ma	iximum	cable siz	e/cond	uit size	1R	x 3C x !	50mm²/2 x l	M40 x 1.5	
Type of	grease		C	HEVRO	N SRI-2 o	r Equiva	ent		Au	xiliary te	erminal l	хос				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 --_

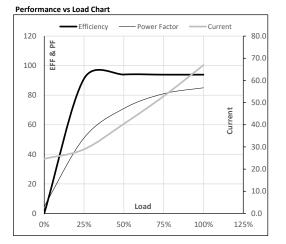




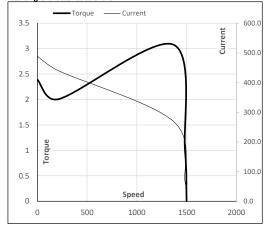
Model No. TCA0372A1113GAC010

Enclosure l	0 /	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 ²]	[kg]
TEFC 40	100	Δ	50	37	50.0	66.9	1484	24.47	239.99	IE3	40	S1	1000	0.6683	381

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	24.6	28.9	40.4	52.9	66.9	
Torque	Nm	0.0	59.5	119.3	179.5	240.0	
Speed	r/min	1500	1496	1492	1488	1484	
Efficiency	%	0.0	91.2	94.0	93.9	93.9	
Power Factor	%	4.8	51.1	71.0	81.0	85.0	



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

488.4

2.4

P-Up

214

439.6

2.0

BD

1365

270.1

3.1

Rated

1484

66.9

1

NL

1500

24.6

0

Load Point

Speed

Current Torque

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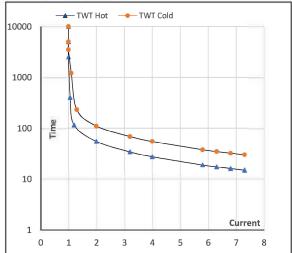
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	37	50.0	66.9	1484	24.47	239.99	IE3	40	S1	1000	0.6683	381

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	1 ₅	LR
TWT Hot	s	10000	55	37	27	24	20	15
TWT Cold	s	10000	110	72	55	52	41	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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