PRODUCT INFORMATION PACKET

Model No: TCA0372AF133GAC010 Catalog No: TCA0372AF133GAC010 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 225S Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E







Product Information Packet: Model No: TCA0372AF133GAC010, Catalog No:TCA0372AF133GAC010 TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 225S Frame, TEFC

marathon®

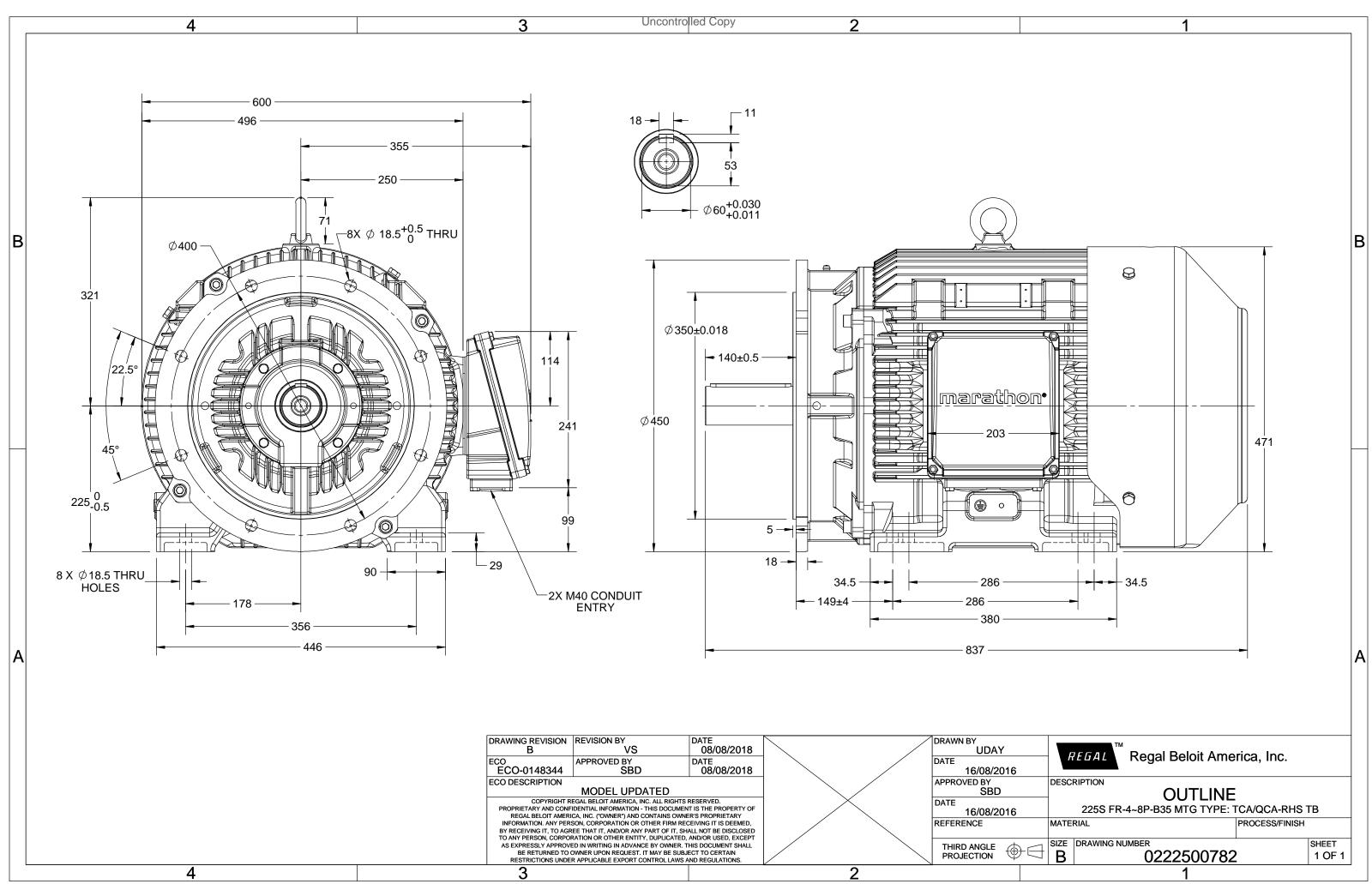
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	50 Hz	Voltage	380 V
Current	70.4 A	Speed	1484 rpm
Service Factor	1	Phase	3
Efficiency	93.9 %	Power Factor	0.85
Duty	S1	Insulation Class	F
Frame	225S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	225S No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6313	Ambient Temperature Opp Drive End Bearing Size	40 °C 6213

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
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	0222500782	Connection Drawing	8442000085

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/01/2022



3 of 7





TerraMAX[®]

Model No. TCA0372AF133GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	% EFF at	t_load	ł	PF	at lo	bad	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]
380	Δ	50	37	50	70.43	1484	239.99	IE3	-	93.9	93.9	94	0.85	0.81	0.71	7.3	2.4	3.1
Matari	huno				TCA				Dec	maa of .	eretesti					IP 55		
Motor 1					TEFC					-	orotectio	on				IP 55		
Enclosu		1			Cast Irc					unting						IC 411		
	Materia	I			2255	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				oling me						394		
Frame s	size				2255 S1						ght - app							kg kg
Duty		*			± 10%					0	ht - app	rox.				424		
U	e variatio				± 10%	•				tor iner					0.6683 Customer to Provide			kgm ²
	ncy varia				± 5%					d inerti					Cusio	2.2		
	ned varia	ation *								ration le					`			mm/s
Design					N 1.0						•			n motor	-)	65		dB(A)
Service					1.0						ts hot/co	old/Equ	ally spr	ead		2/3/4		
	on class				F	40				rting me						DOL		
	nt tempe				-20 to +			°C	. 71	e of cou	1 0					Direct		
		• •	resistance	e)	80 [Class	БΙ		K			nd time		ld)			15/30		S
	e above		•••		1000			meter			f rotatio	on			-	li-directional		
	ous area				NA					ndard r					Cloc	ckwise form D	DE	
	Zone cla		tion		NA					nt shade						RAL 5014		
	Gas gro	•			NA				Acc	essorie								
	Temperature class NA							essory -					PTC 150°C					
	tor type Aluminum Die cast					Accessory - 2						-						
Bearing	g type							Accessory - 3						-				
DE / ND	DE beari	ng		631	13 C3/62						ox posit					RHS		
Lubrica	tion me	thod			Regreasa				Ma	ximum	cable siz	e/cond	luit size	1R	x 3C x 5	50mm²/2 x M	40 x 1.5	
Type of	grease		C	CHEVRC	ON SRI-2 o	r Equival	ent		Aux	kiliary te	erminal l	оох				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 -_



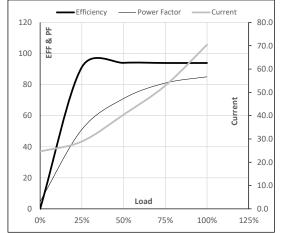


Model No. TCA0372AF133GAC010

Enclosure	U	Δ / Y	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	380	Δ	50	37	50	70.4	1484	24.47	239.99	IE3	40	S1	1000	0.6683	394

Motor Load Data												
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL						
А	24.6	28.9	40.4	52.9	70.4							
Nm	0.0	59.5	119.3	179.5	240.0							
r/min	1500	1496	1492	1488	1484							
%	0.0	91.2	94.0	93.9	93.9							
%	4.8	51.1	71.0	81.0	85.0							
	A Nm r/min %	NL A 24.6 Nm 0.0 r/min 1500 % 0.0	NL 1/4FL A 24.6 28.9 Nm 0.0 59.5 r/min 1500 1496 % 0.0 91.2	NL 1/4FL 1/2FL A 24.6 28.9 40.4 Nm 0.0 59.5 119.3 r/min 1500 1496 1492 % 0.0 91.2 94.0	NL 1/4FL 1/2FL 3/4FL A 24.6 28.9 40.4 52.9 Nm 0.0 59.5 119.3 179.5 r/min 1500 1496 1492 1488 % 0.0 91.2 94.0 93.9	NL 1/4FL 1/2FL 3/4FL FL A 24.6 28.9 40.4 52.9 70.4 Nm 0.0 59.5 119.3 179.5 240.0 r/min 1500 1496 1492 1488 1484 % 0.0 91.2 94.0 93.9 93.9						

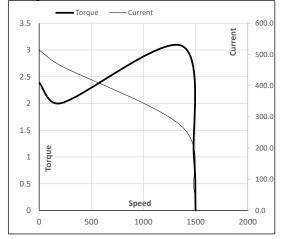
Performance vs Load Chart



Motor Speed Torque Data

Motor Spee	d Torque Dat	а				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	214	1365	1484	1500
Current	А	514.2	462.7	270.1	70.4	24.6
Torque	pu	2.4	2.0	3.1	1	0

Starting Characteristics Chart



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

Issued By

Issued Date

REGAL





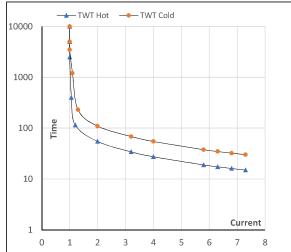
Model No. TCA0372AF133GAC010

Enclosure	U	Δ / Y	f	Р	Р	Ι	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	380	Δ	50	37	50.0	70.4	1484	24.47	239.99	IE3	40	S1	1000	0.6683	394

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I ₄	l 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

Issued By Issued Date

REGAL