PRODUCT INFORMATION PACKET

Model No: TCA5P52AF113GAC010 Catalog No: TCA5P52AF113GAC010 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 132S 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



marathon[®]

Motors

Fregal Rexnord



Product Information Packet: Model No: TCA5P52AF113GAC010, Catalog No:TCA5P52AF113GAC010 TerraMAX® Cast Iron Motor, 7.50 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 132S Frame, TEFC

marathon®

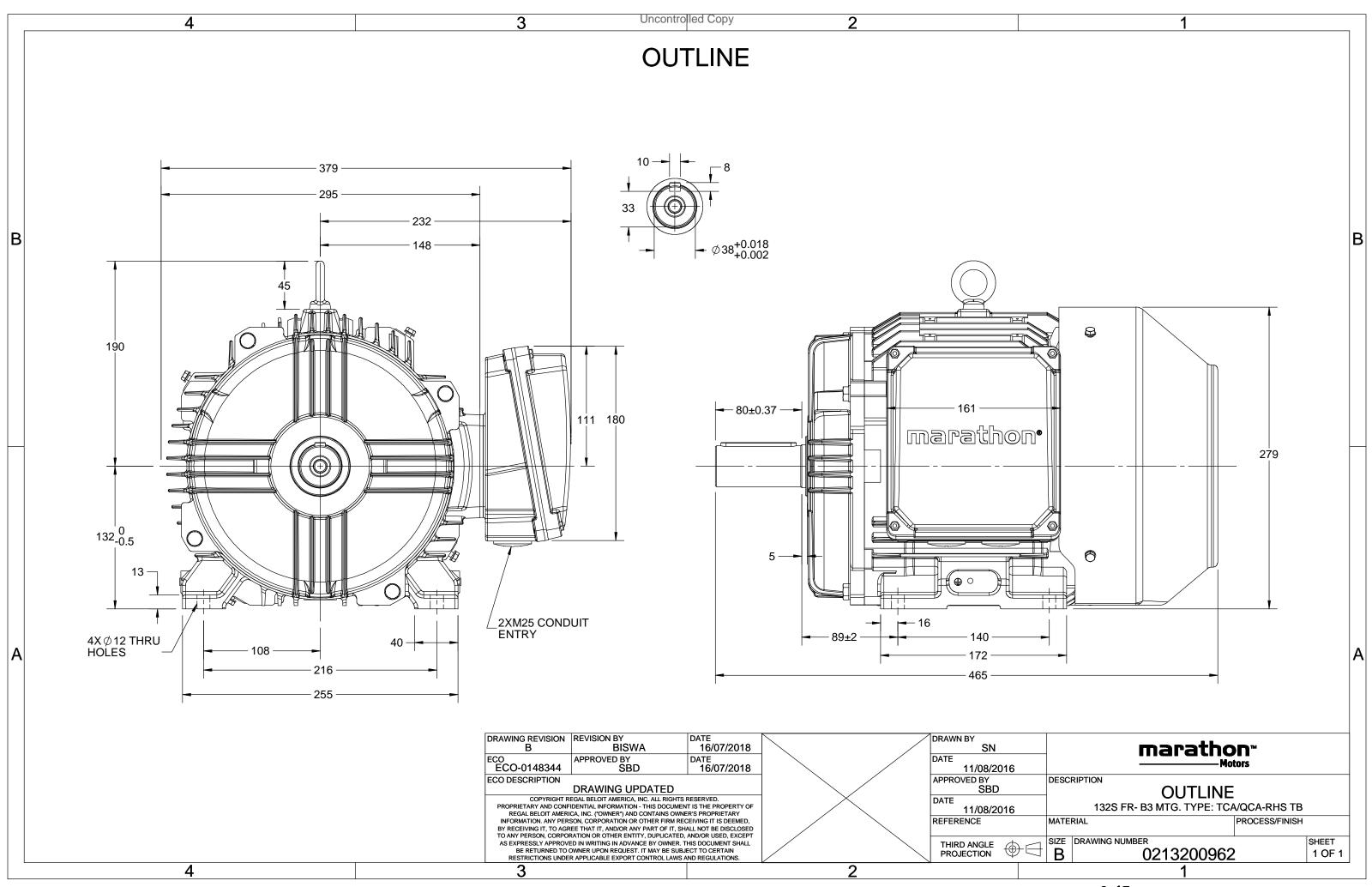
Nameplate Specifications

Output HP	7.50 Нр	Output KW	5.5 kW		
Frequency	50 Hz	Voltage	380 V		
Current	11.1 A	Speed	1468 rpm		
Service Factor	1	Phase	3		
Efficiency	89.6 %	Power Factor	0.84		
Duty	S1	Insulation Class	F		
Frame	132S	Enclosure	Totally Enclosed Fan Cooled		
	1020	Enclocato	Totally Enclosed Fall Cooled		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
Thermal Protection Drive End Bearing Size	No Protection 6308	Ambient Temperature Opp Drive End Bearing Size	40 °C 6208		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	4	Rotation	Bi-Directional	
Mounting	B3	Motor Orientation	Horizontal	
Drive End Bearing	2Z-C3	Opp Drive End Bearing	2Z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	465 mm	Frame Length	202 mm	
Shaft Diameter	38 mm	Shaft Extension	80 mm	
Assembly/Box Mounting	R Side			
Connection Drawing	8442000085	Outline Drawing	0213200962	

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. TCA5P52AF113GAC010

U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t load	t	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	5.5	7.5	11.1	1468	36.4	IE3	-	89.6	89.6	89.7	0.84	0.79	0.67	6.7	2.3	2.7
Motor	1000				TCA				Dec	aroo of	protecti	~				IP 55		
Enclosu	<i>·</i> ·				TEFC					ounting		011				IM B3		
	Materia	I			Cast Irc					oling me						IC 411		
Frame		1			1325					•	ght - ap	nrov				83		kg
Duty	3120				1525 S1						0 1					kg		
,	e variatio	n *			± 10%	Ś			Gross weight - approx. Motor inertia							86 0.0446		kgm²
	ncy varia				± 5%				Motor inertia Load inertia					Custo	omer to Provid	e	Kgill	
•	ned varia				10%					Load inertia Vibration level					ouse	1.6	•	mm/s
Design					N							er distai	nce fror	n motor	·)	61		
Service	factor				1.0						ts hot/c				,	2/3/4		dB(A)
	ion class				F					rting m		010/290	any op.			DOL		
	nt tempe				-20 to +	40		°C		be of co						Direct		
			resistanc	e)	80 [Class	5 B]		K			nd time	(hot/co	ld)			10/20		S
Altitude	e above	sea lev	el	,	1000			meter	Dir	ection c	of rotation	on ,	,		В	i-directional		
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form DE		
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temper	ature o	class		NA					Acc	cessory -	- 1				PTC 150°C		
Rotor t	уре			Alu	uminum D	Die cast				Acc	cessory -	- 2				-		
Bearing	g type			A	nti-frictio	n ball				Acc	cessory -	- 3				-		
DE / NE	DE bearii	ng		630	08-2Z / 6	5208-2Z			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	ireased fo	or life			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 1	16mm²/2 x M2	5 x 1.5	
Type of	fgrease				NA				Aux	kiliary te	erminal	box				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 Efficiency Europe China

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

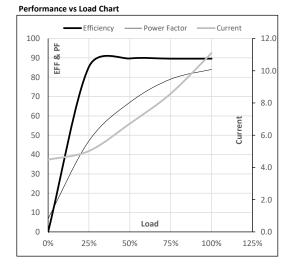
marathon®



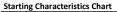
Model No. TCA5P52AF113GAC010

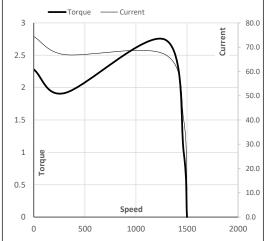
														1	
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Δ	50	5.5	7.5	11.1	1468	3.71	36.40	IE3	40	S1	1000	0.0446	83

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.5	5.0	6.7	8.6	11.1	
Torque	Nm	0.0	8.9	18.0	27.1	36.4	
Speed	r/min	1500	1492	1485	1477	1468	
Efficiency	%	0.0	85.4	89.7	89.6	89.6	
Power Factor	%	6.9	47.1	67.0	79.0	84.0	



Motor Speed	Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	300	1287	1468	1500							
Current	А	74.4	66.9	39.9	11.1	4.5							
Torque	pu	2.3	1.9	2.7	1	0							





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

Issued By Issued Date

REGAL





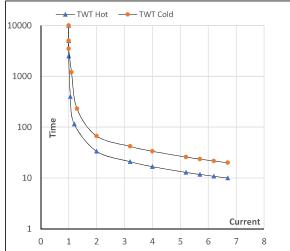
Model No. TCA5P52AF113GAC010

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	5.5	7.5	11.1	1468	3.71	36.40	IE3	40	S1	1000	0.0446	83

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	34	24	17	14	13	10
TWT Cold	s	10000	67	45	34	28	24	20
Current	pu	1	2	3	4	5	5.5	6.7

Thermal Characteristics Chart



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

Issued By Issued Date

REGAL