PRODUCT INFORMATION PACKET

Model No: TCA2P23AF113GAC010 Catalog No: TCA2P23AF113GAC010 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 112M Frame, TEFC



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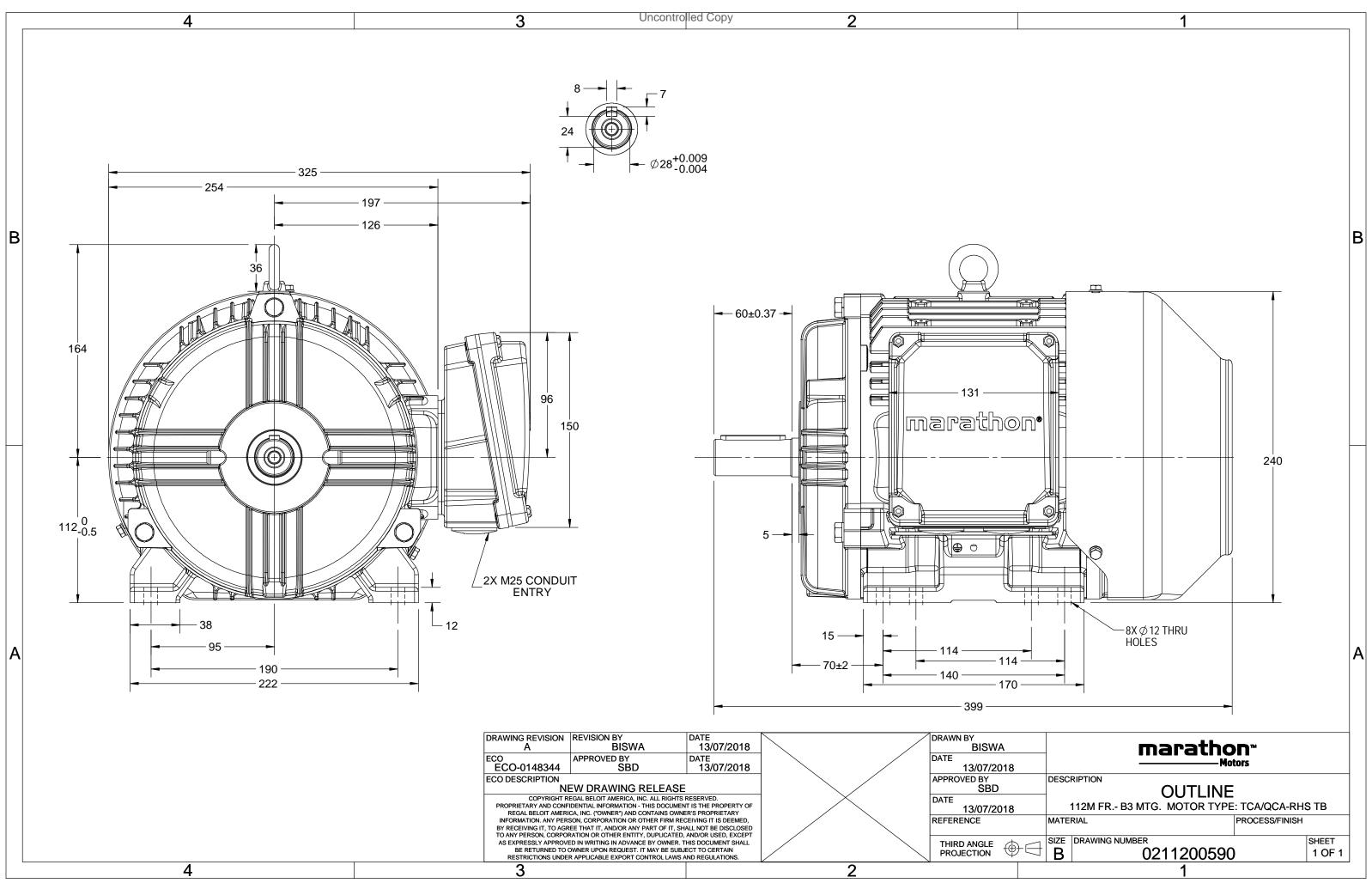
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW
Frequency	50 Hz	Voltage	380 V
Current	5.4 A	Speed	958 rpm
Service Factor	1	Phase	3
Efficiency	84.3 %	Power Factor	0.73
Duty	S1	Insulation Class	F
Frame	112M	Enclosure	Totally England Fan Cooled
Fidille		Eliciosule	Totally Enclosed Fan 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 6306	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	399 mm	Frame Length	174 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0211200590	Connection Drawing	8442000085

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Model No. TCA2P23AF113GAC010

U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t loa	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	Y	50	2.2	3	5.43	958	22.34	IE3	-	84.3	84.3	82.4	0.73	0.65	0.5	5.9	2.5	2.8
Motor	tyno				TCA				Der	aree of	protecti	on				IP 55		
Enclosu	<i>/</i> 1				TEFC					ounting		011				IM B3		
	Materia	I			Cast Irc											IC 411		
Frame					1121					Cooling method Motor weight - approx. Gross weight - approx						47		kg
Duty					S1					Gross weight - approx.						50		kg
,	e variatio	on *			± 10%	Ś				Motor inertia						0.0158		kgm ²
	ncy varia				± 5%					Load inertia					Cust	omer to Provid	е	
•	ned varia				10%				Vib	Vibration level						1.6		mm/s
Design					N				Noi	ise level	(1met	er distai	nce fror	n motor	-)	58		dB(A)
Service	factor				1.0				No.	. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		. ,
Insulati	on class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	be of co	upling					Direct		
Tempe	rature ri	se (by i	resistanc	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	of rotation	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Clo	kwise form DE		
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature o	lass		NA					Acc	essory -	- 1				PTC 150°C		
Rotor t	уре			Alı	uminum D)ie cast				Acc	essory	- 2				-		
Bearing	g type			A	nti-frictio	n ball				Acc	essory	- 3				-		
DE / NE	DE beari	ng		630	06-2Z / 6	5206-2Z			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	Greased fo	or life			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 3	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.

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

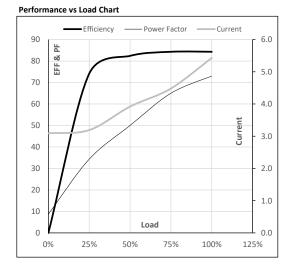
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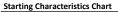
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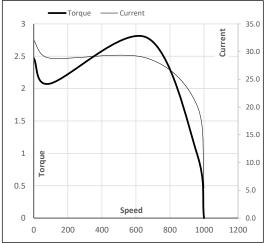
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	2.2	3.0	5.4	958	2.28	22.34	IE3	40	S1	1000	0.0158	47

Motor Load Data													
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL						
Current	А	3.1	3.2	3.9	4.5	5.4							
Torque	Nm	0.0	5.4	10.9	16.6	22.3							
Speed	r/min	1000	990	981	970	958							
Efficiency	%	0.0	74.1	82.4	84.3	84.3							
Power Factor	%	8.7	34.3	50.0	65.0	73.0							



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	91	663	958	1000						
Current	А	32.0	28.8	20.4	5.4	3.1						
Torque	pu	2.5	2.1	2.8	1	0						





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

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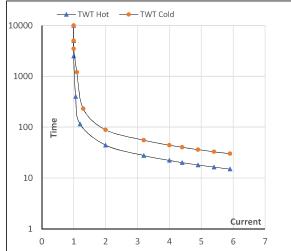
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	2.2	3.0	5.4	958	2.28	22.34	IE3	40	S1	1000	0.0158	47

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	44	30	22	17	16	15
TWT Cold	s	10000	89	59	44	34	31	30
Current	pu	1	2	3	4	5	5.5	5.9

Thermal Characteristics Chart



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

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