PRODUCT INFORMATION PACKET

Model No: TCA2P23A1171GAC010 Catalog No: TCA2P23A1171GAC010 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 112M Frame, TEFC



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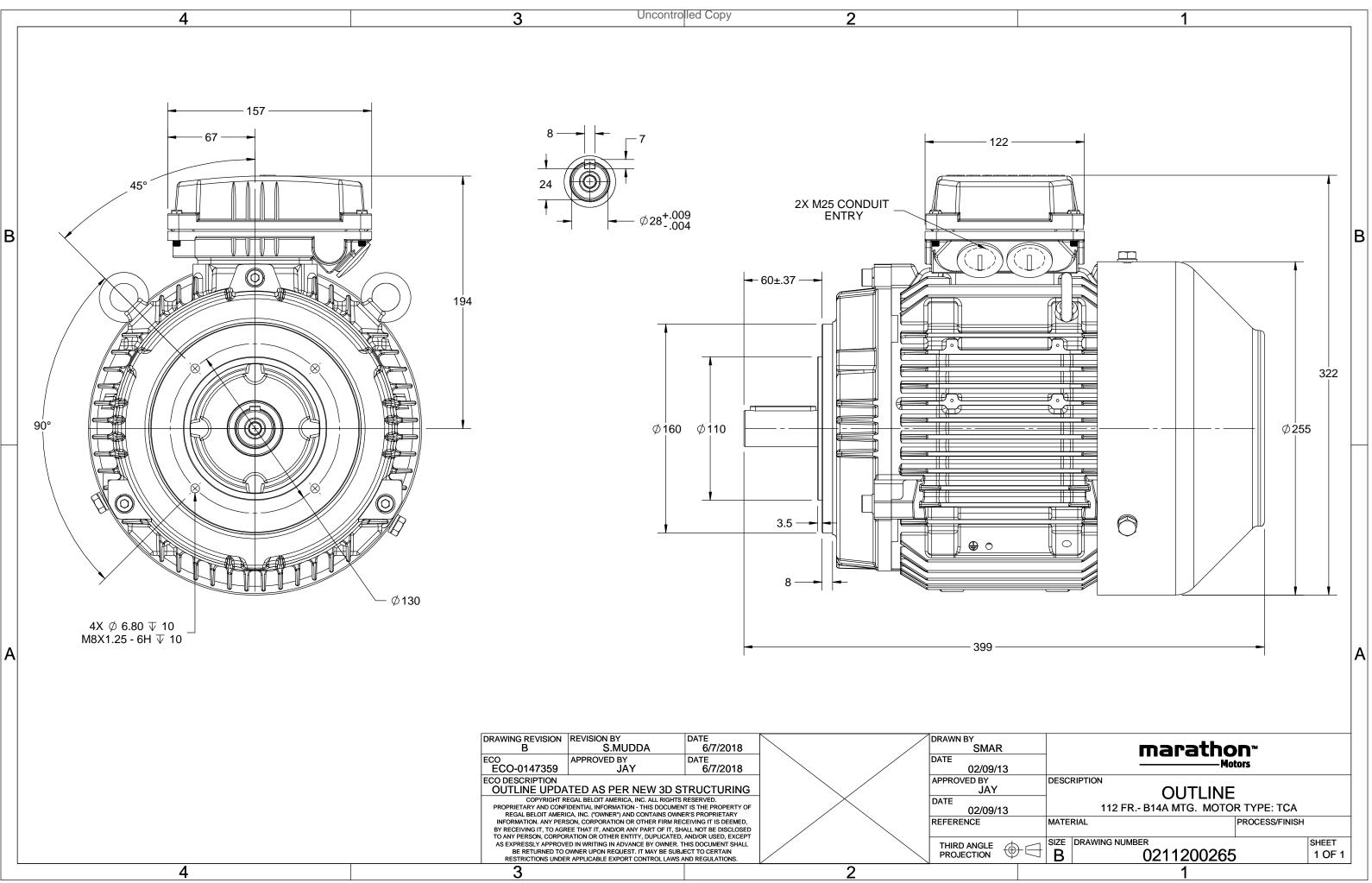
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW
Frequency	50 Hz	Voltage	400 V
Current	5.2 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 Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206
UL	No	CSA	Νο
CE	Yes	IP Code	55
Number of Speeds	4	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B14A	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	Тор		
Outline Drawing	0211200265	Connection Drawing	8442000085

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3 of 7





TerraMAX[®]

Model No. TCA2P23A1171GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	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]
400	Y	50	2.2	3	5.2	958	22.34	IE3	-	84.3	84.3	82.4	0.73	0.65	0.5	5.9	2.5	2.8
Motor					TCA				Day	area of	arataati					IP 55		
Motor Enclosu					TEFC						protecti	on				IF 55		
		1			Cast Irc					ounting						IC 411		
Frame	Materia	I			112N					oling me						47		ka
	size				51						ght - ap					50		kg
Duty		*			± 10%					oss weig tor iner	ht - app	rox.				0.0158		kg
	e variatio				± 10%										Cust	omer to Provid		kgm ²
	ncy varia				± 5%					id inerti					Cusi	1.6	le	
	ned varia	ation *			10% N					ration l					1	58		mm/s
Design	<i>c</i> .										•			n motor)			dB(A)
Service					1.0 F						ts hot/c	old/Equ	ally spr	ead		2/3/4 DOL		
	ion class				-	10				rting m								
	nt tempe				-20 to +			°C	71	be of co						Direct		
•		• •	resistanc	e)	80 [Class	-		K			nd time		ld)			15/30		S
	e above				1000			meter			of rotation	on				i-directional		
	ous area				NA					ndard r					Cloc	ckwise form DE		
	Zone cla	assifica	tion		NA					nt shad						RAL 5014		
	Gas gro	•			NA				Acc	essorie	S							
	Temper	ature o	class		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				TOP		
Lubrica	tion me	thod		e	Greased for	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	f grease				NA				Au	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. India Aus/Nz Brazil Efficie Chi E

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



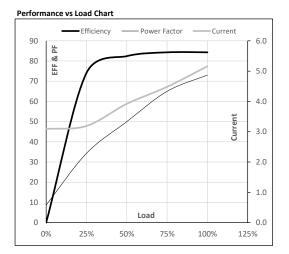


Model No. TCA2P23A1171GAC010

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	Y	50	2.2	3.0	5.2	958	2.28	22.34	IE3	40	S1	1000	0.0158	47

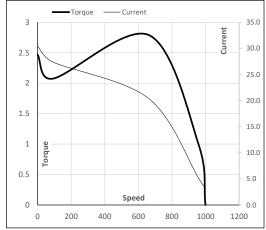
Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.1	3.2	3.9	4.5	5.2	
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	l Torque Dat	а					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	663	958	1000	
Current	А	30.4	27.4	20.4	5.2	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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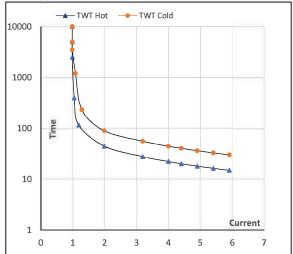
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	2.2	3.0	5.2	958	2.28	22.34	IE3	40	S1	1000	0.0158	47

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	۱ 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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