PRODUCT INFORMATION PACKET

Model No: TCA2P22A1111GAC010 Catalog No: TCA2P22A1111GAC010 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 100L Frame, TEFC



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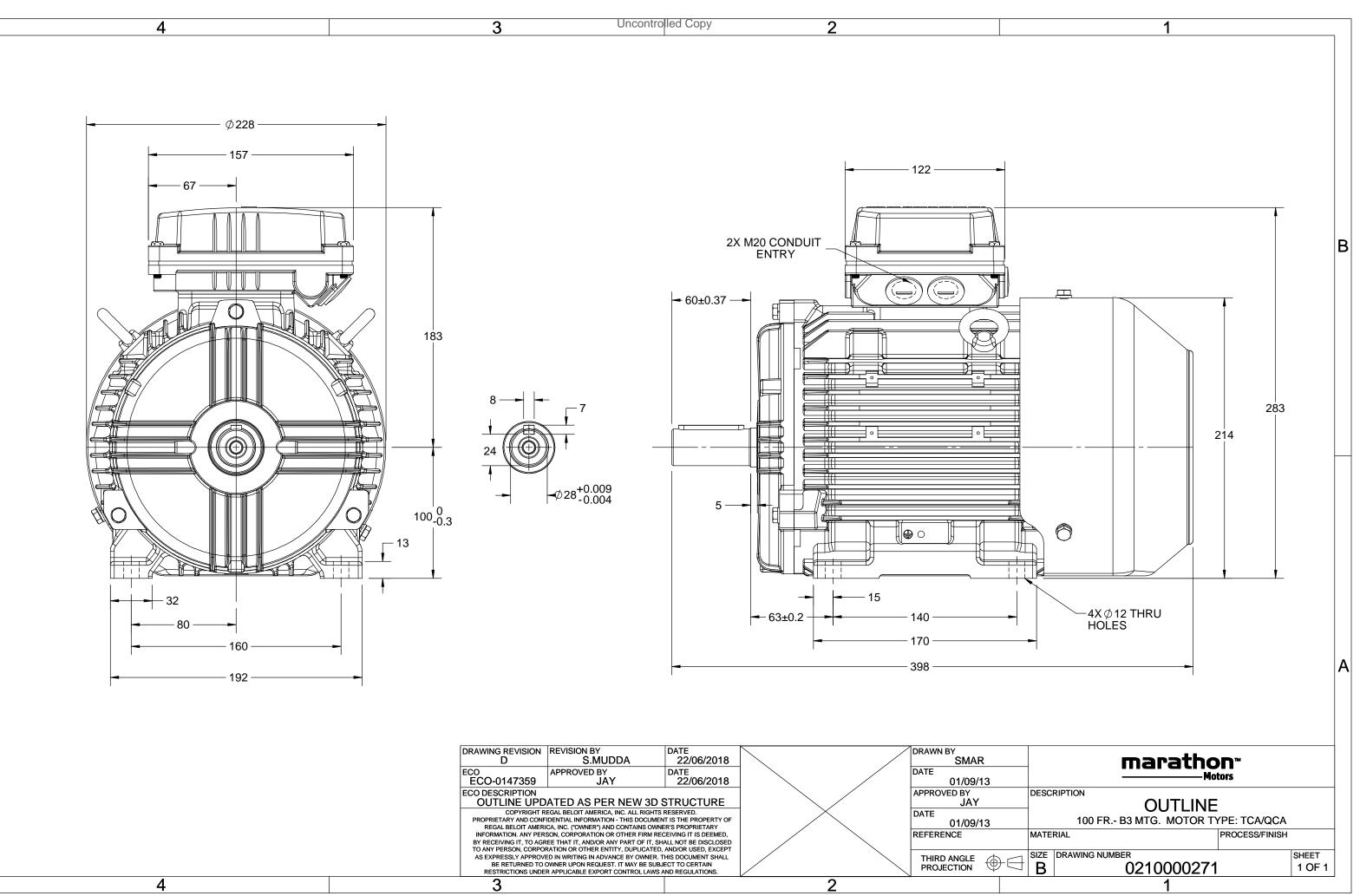
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW
Frequency	50 Hz	Voltage	400 V
Current	4.4 A	Speed	1456 rpm
Service Factor	1	Phase	3
Efficiency	86.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
Drive End Bearing Size UL	6206 No	Opp Drive End Bearing Size CSA	6206 No

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	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0210000271

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Model No. TCA2P22A1111GAC010

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]
400	Y	50	2.2	3	4.4	1456	14.67	IE3	-	86.7	86.7	85.1	0.84	0.77	0.65	7	2.3	2.9
Motor	tupo		Į		TCA			ļ	Do	groo of	protecti	on.	<u>.</u>			IP 55		
Enclosu					TEFC					ounting						IM B3		
	Materia	I			Cast Ire					oling m						IC 411		
Frame		1			100L					•	ght - ap	aroy				39		kg
Duty	3120		S1								• .					42		∿s kg
,	e variatio	n *				6				Gross weight - approx. Motor inertia						0.0115		kgm ²
	ncy varia				± 5%				Motor inertia Load inertia						Cust	omer to Pro	ovide	KBIII
	ned varia				10%					Vibration level						1.6		
Design					N					Noise level (1meter distance from motor)					-)	55		mm/s dB(A)
Service	factor				1.0					No. of starts hot/cold/Equally spread					2/3/4			()
Insulati	ion class				F					Starting method						DOL		
	nt tempe				-20 to +	40		°C		Type of coupling						Direct		
	rature ri			ce)	80 [Clas	sB]		К			nd time	(hot/co	ld)			10/20		s
Altitude	e above	sea lev	el	,	1000	-		meter	Dir	ection o	of rotation	on .	,		В	i-direction	al	
Hazard	ous area	a classif	fication		NA				Sta	indard r	otation				Cloc	ckwise form	ו DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	s							
	Temper	ature o	class		NA					Ac	cessory -	1				PTC 150°C		
Rotor t	уре			Alu	uminum [Die cast				Accessory - 2					-			
Bearing	g type			A	nti-frictio	n ball				Ac	cessory -	3				-		
DE / NE	DE beari	ng		620	06-2Z /	5206-2Z			Ter	rminal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	ireased fo	or life			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 3	10mm²/2 x	M20 x 1.5	
Type of	fgrease				NA				Au	xiliary t	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. Ffficiency Aus/Nz Brazil India China Furone

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

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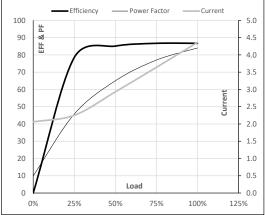
Model No. TCA2P22A1111GAC010

Enclosure	U	Δ / Y	f	Р	Р	Ι	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	4.4	1456	1.50	14.67	IE3	40	S1	1000	0.0115	39

Motor Load Data

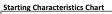
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Α	2.1	2.3	2.9	3.6	4.4	
Nm	0.0	3.6	7.2	10.9	14.7	
r/min	1500	1490	1480	1469	1456	
%	0.0	78.5	85.1	86.7	86.7	
%	9.9	45.7	65.0	77.0	84.0	
	Nm r/min %	A 2.1 Nm 0.0 r/min 1500 % 0.0	A 2.1 2.3 Nm 0.0 3.6 r/min 1500 1490 % 0.0 78.5	A 2.1 2.3 2.9 Nm 0.0 3.6 7.2 r/min 1500 1490 1480 % 0.0 78.5 85.1	A 2.1 2.3 2.9 3.6 Nm 0.0 3.6 7.2 10.9 r/min 1500 1490 1480 1469 % 0.0 78.5 85.1 86.7	A 2.1 2.3 2.9 3.6 4.4 Nm 0.0 3.6 7.2 10.9 14.7 r/min 1500 1490 1480 1469 1456 % 0.0 78.5 85.1 86.7 86.7

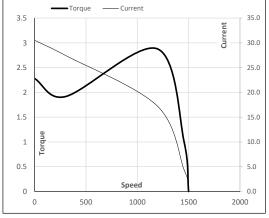
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1194	1456	1500	
Current	А	30.5	27.5	17.3	4.4	2.1	
Torque	pu	2.3	1.9	2.9	1	0	





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

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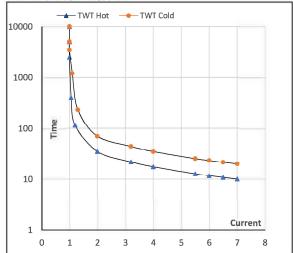
Model No. TCA2P22A1111GAC010

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	4.4	1456	1.50	14.67	IE3	40	S1	1000	0.0115	39

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	35	24	18	15	13	10
TWT Cold	s	10000	70	45	35	30	26	20
Current	pu	1	2	3	4	5	5.5	7

Thermal Characteristics Chart



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

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