PRODUCT INFORMATION PACKET

Model No: TCA2P22A1121GAC010 Catalog No: TCA2P22A1121GAC010 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 100L Frame, TEFC



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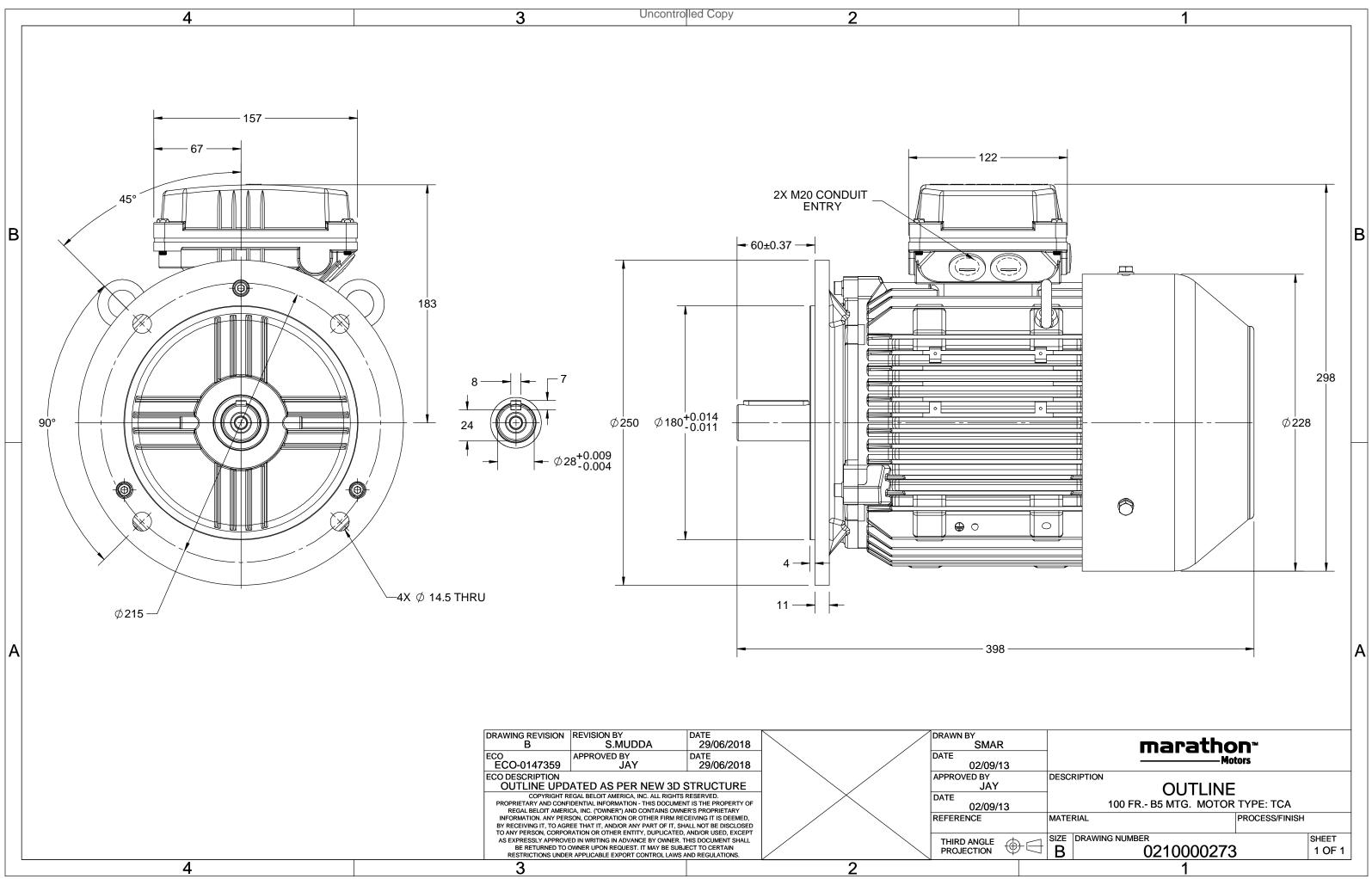
Nameplate Specifications

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
Frame Thermal Protection	100L 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 6206	Ambient Temperature Opp Drive End Bearing Size	40 °C 6206

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B5	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		
Outline Drawing	0210000273	Connection Drawing	8442000085

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Model No. TCA2P22A1121GAC010

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	4.4	1456	14.67	IE3	-	86.7	86.7	85.1	0.84	0.77	0.65	7	2.3	2.9
Motor	/ .				TCA						protecti	on				IP 55		
Enclosu					TEFC					ounting						IM B5		
	Materia				Cast Irc	n				oling me						IC 411		
Frame	size				100L						ght - ap					41		kg
Duty					S1						sht - app	rox.				44		kg kgm²
	e variatio				± 10%					Motor inertia						0.0115		
	ncy varia				± 5%				Loa	ad inerti	а				Custo	ide		
Combir	ned varia	ation *			10%				Vib	Vibration level						1.6		mm/s
Design					N				No	ise leve	l (1mete	er distar	nce fror	n motor	,			dB(A)
Service	factor				1.0				No	. of star	ts hot/c	old/Equ	ally spr	ead	2/3/4			
Insulati	ion 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)			10/20		S
Altitud	e above	sea lev	el		1000			meter	Dir	ection c	of rotatio	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form D	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	S							
	Temper	ature o	class		NA					Aco	cessory -	1				PTC 150°C		
Rotor t	уре			Alı	uminum D	ie cast				Aco	cessory -	2				-		
Bearing	g type			A	nti-frictio	n ball				Aco	cessory -	3				-		
DE / NE	DE beari	ng		620)6-2Z / 6	5206-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	ireased fo	r life			Ma	iximum	cable siz	ze/cond	uit size	1R	x 3C x 1	10mm²/2 x M	20 x 1.5	
Type of	f grease				NA				Aux	xiliary te	erminal	box				NA		

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

 $\rm T_A/T_N$ - 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

 $\ensuremath{^*}$ 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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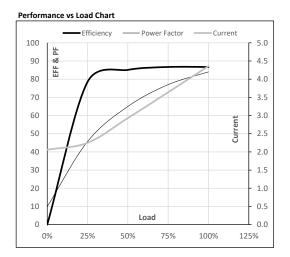




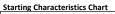
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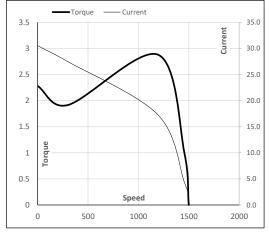
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	2.2	3.0	4.4	1456	1.50	14.67	IE3	40	S1	1000	0.0115	41

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.1	2.3	2.9	3.6	4.4	
Torque	Nm	0.0	3.6	7.2	10.9	14.7	
Speed	r/min	1500	1490	1480	1469	1456	
Efficiency	%	0.0	78.5	85.1	86.7	86.7	
Power Factor	%	9.9	45.7	65.0	77.0	84.0	



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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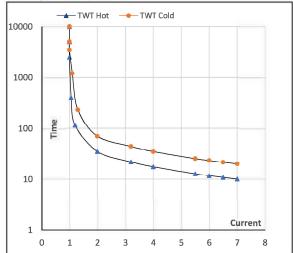
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	2.2	3.0	4.4	1456	1.50	14.67	IE3	40	S1	1000	0.0115	41

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	l ₄	l 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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