PRODUCT INFORMATION PACKET

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Model No: TCN0223A1111GAC010 Catalog No: TCN0223A1111GAC010 TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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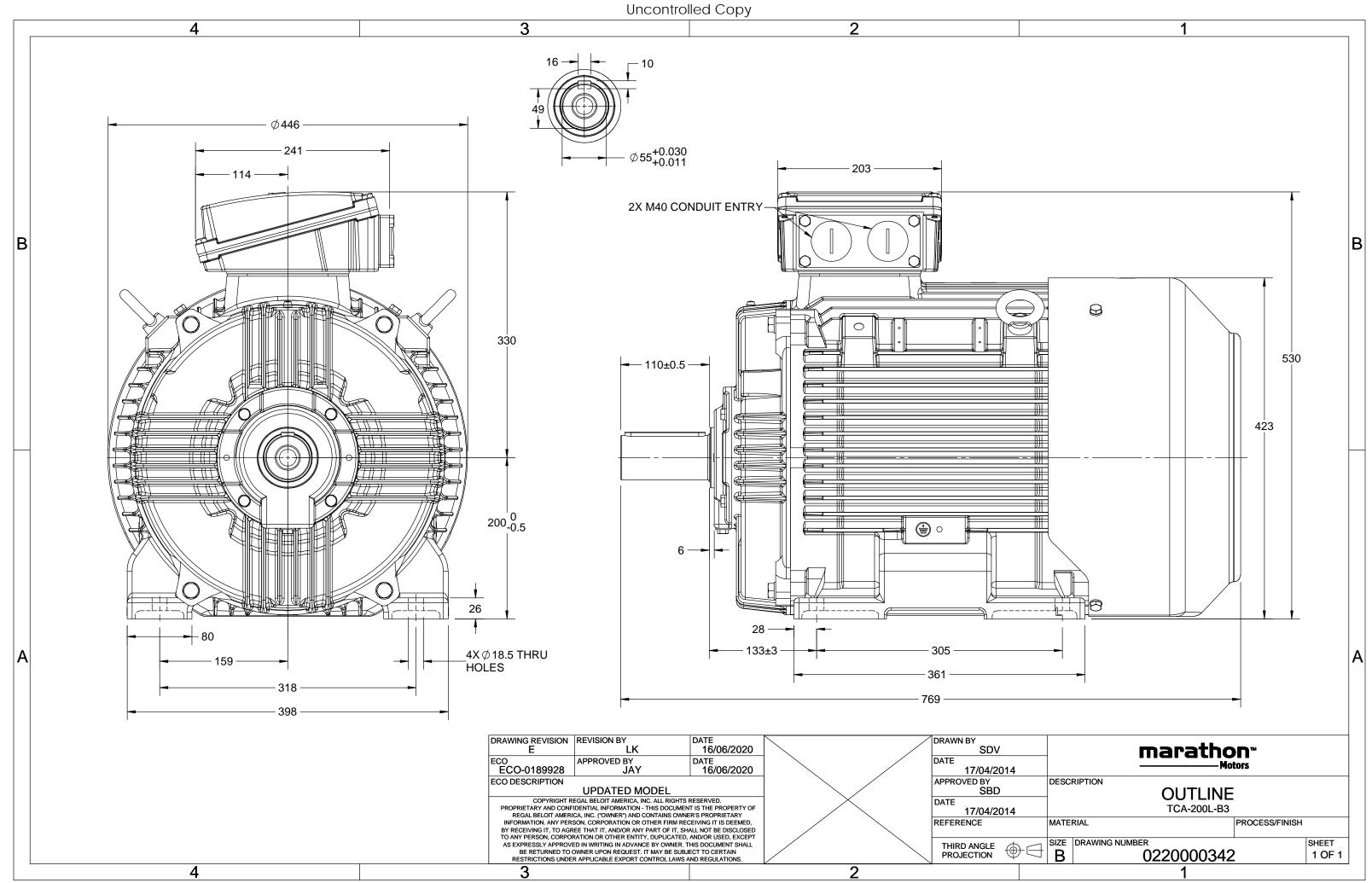
Nameplate Specifications

Phase	3	Output HP	30 Hp
Output KW	22.0 kW	Voltage	400 V
Speed	984 r/min	Service Factor	1
Frame	200L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	92.2 %
Ambient Temperature	40 °C	Frequency	50 Hz
Current	43.1 A	Power Factor	0.8
Duty	S1	Insulation Class	F
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
UL	No	CSA	Νο
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0220000342	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load	ł	PI	Fat_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	Δ	50	22	30	43.1	984	217.12	IE3	-	92.2	92.2	92.1	0.8	0.75	0.63	6	2.1	2.5
•••					TON											10.55		
Motor					TCN					5	protecti	on				IP 55		
Enclosu					TEFC					ounting						IM B3		
	me Material Cast Iron								oling m						IC 411			
	me size 200L									ght - ap					277		kg	
Duty	,									ght - app	rox.				307		kg kgm²	
	tage variation * ± 10%						Mo	Motor inertia						0.6070				
	equency variation * ± 5%						Loa	ad inert	ia				Cust	omer to Pro	vide			
Combir	mbined variation * 10%							ration l						2.2		mm/s		
Design					N				No	ise leve	l (1met	er distar	nce fror	n motor)	62		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 r	esistanc	e)	80 [Class	5 B]		K	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea lev	el		1000			meter	Dir	ection o	of rotatio	on			В	i-directiona	l	
Hazard	ous area	a classif	ication		Ex nA				Sta	Standard rotation						ckwise form	DE	
	Zone cla	assifica	tion		Zone	2			Pai	nt shad	e					RAL 5014		
	Gas gro	up			IIC				Acc	cessorie	S							
	Temper	ature c	lass		Т3					Ac	cessory	- 1				PTC 150°C		
Rotor t	or type Aluminum Die cast						Accessory - 2					-						
Bearing	g type			A	nti-frictio	n ball				Ac	cessory	- 3				-		
DE / NE	DE bearin	ng		63	12 C3/6	212 C3			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod			Regrease	able			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x !	50mm²/2 x	M40 x 1.5	
Type of	fgrease			CHEVRC	ON SRI-2 o	r Equival	ent		Aux	xiliary to	erminal	box				NA		

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current

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

T_A/T_N - Locked Rotor Torque / Rated Torque

NOTE

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-15

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

* Voltage, Frequency and combined variation are as per IEC60034-1

Technical da	ta are subject to chan	ge. There may be slight	variations between calculate	d values in this datash	eet and the motor na	imeplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC:60034-30-1		-	GEMS 2019	-	IEC:60034-30-1

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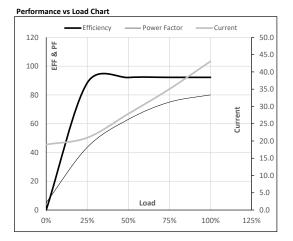
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	22	30	43.1	984	22.14	217.12	IE3	40	S1	1000	0.607	277

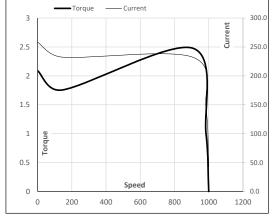
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	19.0	21.0	27.9	35.0	43.1	
Torque	Nm	0.0	53.6	107.7	162.1	217.1	
Speed	r/min	1000	996	993	989	984	
Efficiency	%	0.0	88.4	92.1	92.2	92.2	
Power Factor	%	5.1	43.6	63.0	75.0	80.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	143	905	984	1000	
Current	А	258.3	232.5	142.1	43.1	19.0	
Torque	pu	2.1	1.8	2.5	1	0	





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

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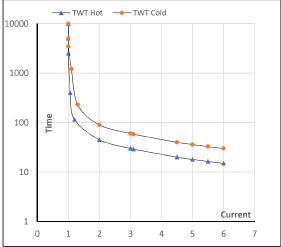
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Enclosure	U	Δ / Y	f	Р	Ρ	1	n	Т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	22	30.0	43 .1	984	22.14	217.12	IE3	40	S1	1000	0.607	277

Motor Spee	Motor Speed Torque Data													
Load		FL	I_1	I_2	I_3	I_4	I ₅	LR						
TWT Hot	s	10000	47	32	25	18	16	15						
TWT Cold	s	10000	95	63	48	37	33	30						
Current	pu	1	2	3	4	5	5.5	6.3						

Thermal Characteristics Chart



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

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