PRODUCT INFORMATION PACKET

Model No: TCA0223A1133GAC010 Catalog No: TCA0223A1133GAC010 TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 200L Frame, TEFC



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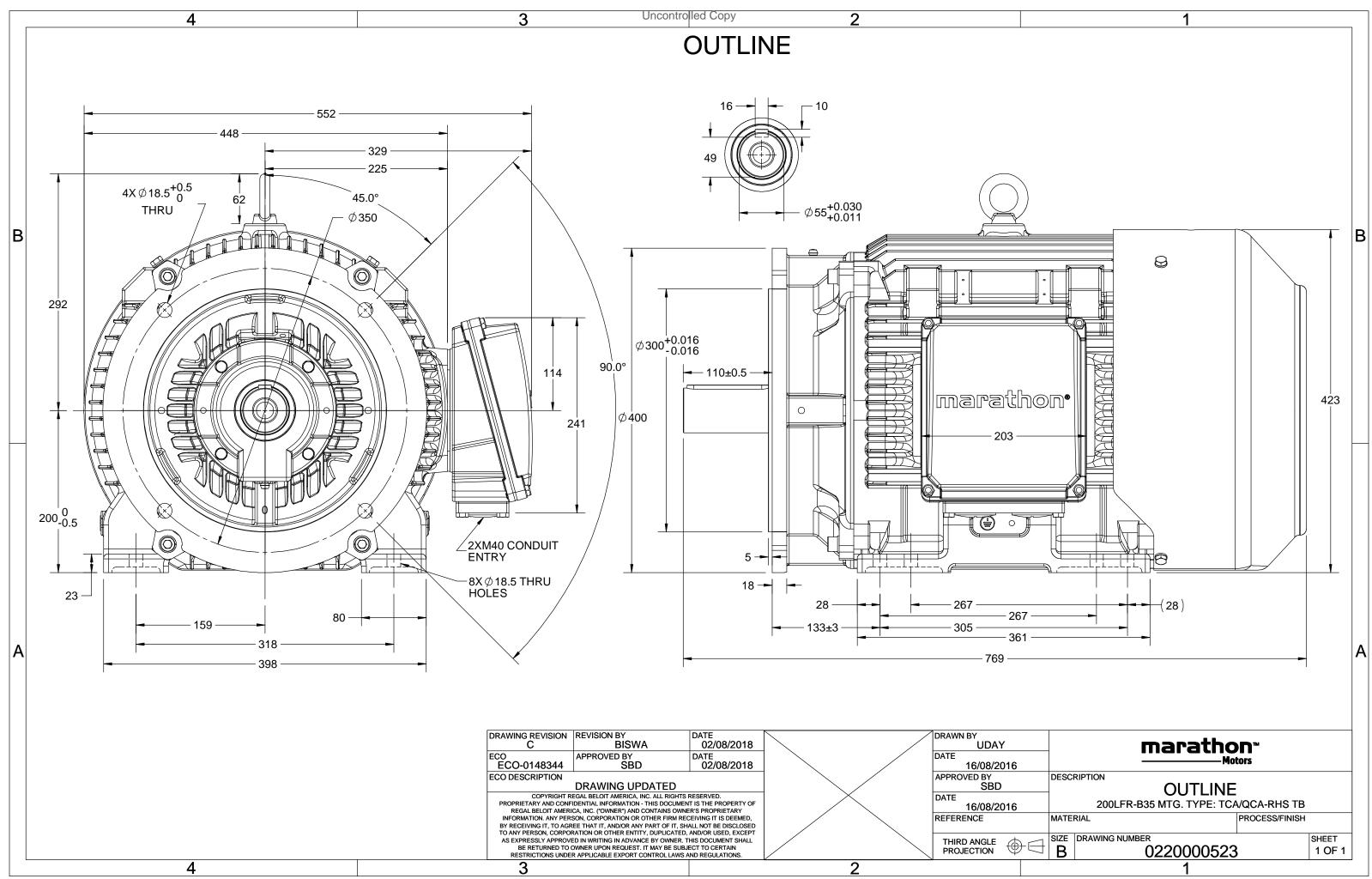
Nameplate Specifications

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

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
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	R Side		
Outline Drawing	0220000523	Connection Drawing	8442000085

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$U = \Delta / Y = f$	Р	P 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 <u>Δ</u> 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
Motor type		ТСА				Do	gree of	protocti	on				IP 55		
Enclosure		TEFC					ounting		011				IM B35		
Frame Material		Cast Ire					oling me						IC 411		
Frame size		200L					tor wei		nrov				289		kg
Duty		200L S1					oss weig						319		kg
Voltage variation *		± 10%	4				tor iner		iox.				0.6070		kgm ²
Frequency variation *		± 107					id inerti					Cust	omer to Pro	vido	Kgill
Combined variation *		10%					ration l					Cusii	2.2	viue	mm/s
Design		1076 N							or dicto	aca fran	n motor	-1	62		dB(A)
Service factor		1.0						•)	2/3/4		UB(A)
Insulation class		1.0 F					of star		ola/Equ	any spr	eau		DOL		
		-20 to +	.40		°C		rting m						Direct		
Ambient temperature					К		e of co		(h at /aa	اما			15/30		
Temperature rise (by a Altitude above sea lev		1000	-				withstai ection c		• •	ia)		р	i-directiona		S
		NA			meter				on				ckwise form		
Hazardous area classif Zone classifica		NA					ndard r nt shad					CIUC	RAL 5014	DL	
	tion	NA					essorie						KAL 3014		
Gas group Temperature o	lace	NA				ACC		s cessory -	1				PTC 150°C		
Rotor type	.1055	Aluminum [Die cast					cessory -					-		
		Anti-frictic						essory -					_		
Bearing type		6312 C3 / 6				Тан	minal b						RHS		
DE / NDE bearing		Regreasa					minai b ximum	•		uit cito	1 🛛	x 3C v 1	50mm²/2 x I	M40 x 1 5	
	CL	IEVRON SRI-2 c		lont						iuit size	IN		NA	1.1 × 0+11	
Type of grease	CI		, Lyuiva			AU	kiliary te	enninal	JUX				N/A		

 $I_{\text{A}}/I_{\text{N}}$ - 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. Aus/Nz Brazil India Global IEC Efficiency Europe China GB 18613-2012 Grade 2 -IEC: 60034-30 Standards --_



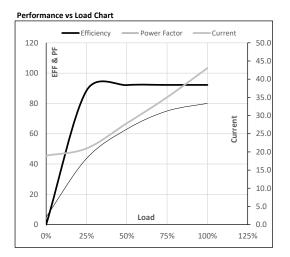


Model No. TCA0223A1133GAC010

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	30.0	43.1	984	22.14	217.12	IE3	40	S1	1000	0.607	289

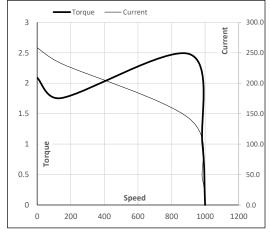
Motor Load Data

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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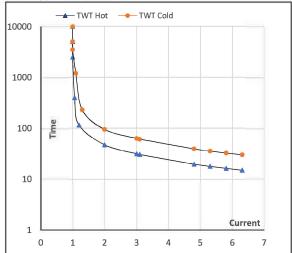
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	22	30.0	43.1	984	22.14	217.12	IE3	40	S1	1000	0.607	289

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	۱ 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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