PRODUCT INFORMATION PACKET

Model No: TCA0033A1133GAC010 Catalog No: TCA0033A1133GAC010 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132S Frame, TEFC



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marathon®

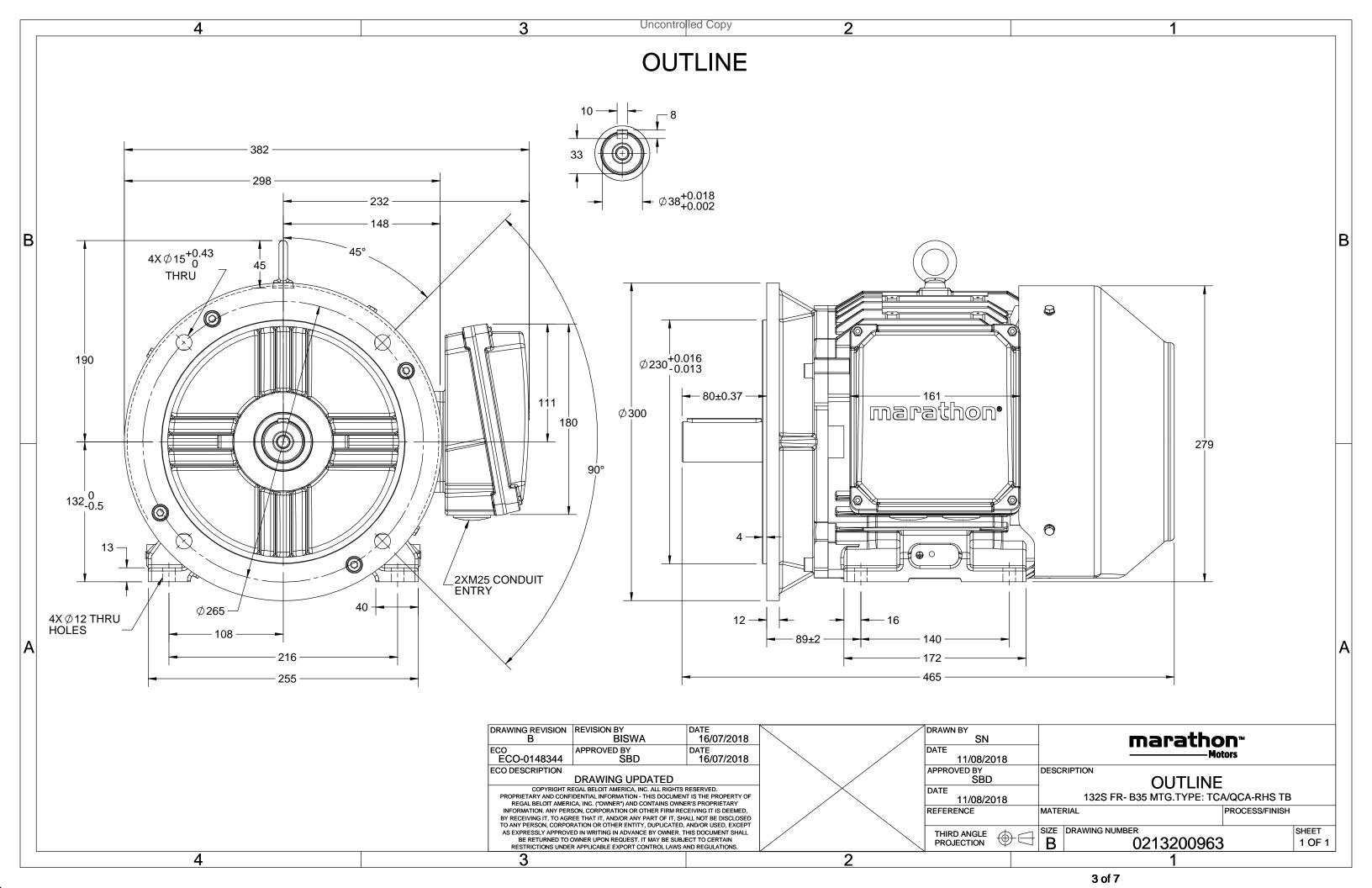
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	400 V
Current	7.1 A	Speed	973 rpm
Service Factor	1	Phase	3
Efficiency	85.6 %	Power Factor	0.71
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
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	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	465 mm	Frame Length	202 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0213200963	Connection Drawing	8442000085

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TerraMAX[®]

Model No. TCA0033A1133GAC010

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	3	4	7.1	973	29.34	IE3	-	85.6	85.6	84.3	0.71	0.62	0.47	5.5	2.0	2.6
Motor					TCA						protecti	on				IP 55		
Enclosu					TEFC					ounting						IM B35		
	Materia	-			Cast Iro					oling me						IC 411		
Frame	size				1325						ght - ap					70		kg
Duty					S1						sht - app	rox.				73		kg
U	e variatio				± 10%					otor iner						0.0390		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	ad inerti	а				Cust	omer to Pro	vide	
Combir	ned varia	ation *			10%				Vib	ration l	evel					1.6		mm/s
Design					N				No	ise leve	l (1met	er dista	nce fror	n motoi)	59		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	resistand	ce)	80 [Clas	s B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea lev	el		1000			meter	Dir	ection c	of rotati	on			В	i-directiona	I	
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Clo	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	s							
	Temper	ature o	lass		NA					Aco	cessory	- 1				PTC 150°C		
Rotor t	уре			Alu	uminum [Die cast				Acc	cessory	- 2				-		
Bearing	g type			А	nti-frictic	n ball				Acc	cessory	- 3				-		
DE / NI	DE beari	ng		630)8-2Z / 6	5208-2Z			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	ireased fo	or life					cable si		luit size	1R	x 3C x 3	16mm²/2 x I	M25 x 1.5	
Type o	fgrease				NA				Au	xiliary 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. Aus/Nz Brazil Global IEC India Efficiency China Furone

Efficiency	Europe	Clilla	maia	/(05/112	Brazili	GIODALIEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30





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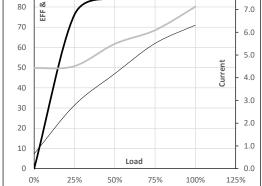
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	3	4.0	7.1	973	2.99	29.34	IE3	40	S1	1000	0.039	70

Motor Load Data

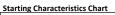
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	4.4	4.5	5.5	6.1	7.1	
Torque	Nm	0.0	7.2	14.5	21.8	29.3	
Speed	r/min	1000	994	987	981	973	
Efficiency	%	0.0	76.2	84.3	85.6	85.6	
Power Factor	%	7.3	31.4	47.0	62.0	71.0	

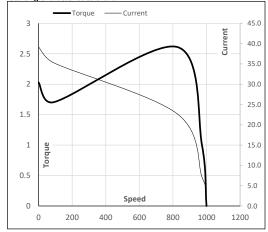


Performance vs Load Chart



Motor Speed	Torque Dat	а					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	827	973	1000	
Current	А	39.2	35.3	22.7	7.1	4.4	
Torque	pu	2.0	1.7	2.6	1	0	





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

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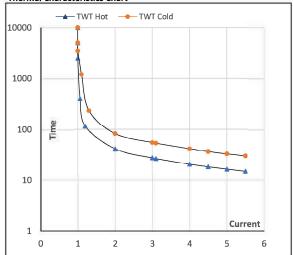
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
_	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	3	4.0	7.1	973	2.99	29.34	IE3	40	S1	1000	0.039	70

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	41	28	21	18	17	15
TWT Cold	s	10000	83	55	41	38	33	30
Current	pu	1	2	3	4	4.5	5	5.5

Thermal Characteristics Chart



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

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