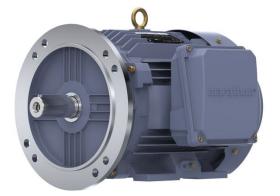
PRODUCT INFORMATION PACKET

Model No: TCA0033AF133GAC010 Catalog No: TCA0033AF133GAC010 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 132S Frame, TEFC



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Motors



Product Information Packet: Model No: TCA0033AF133GAC010, Catalog No:TCA0033AF133GAC010 TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 132S Frame, TEFC

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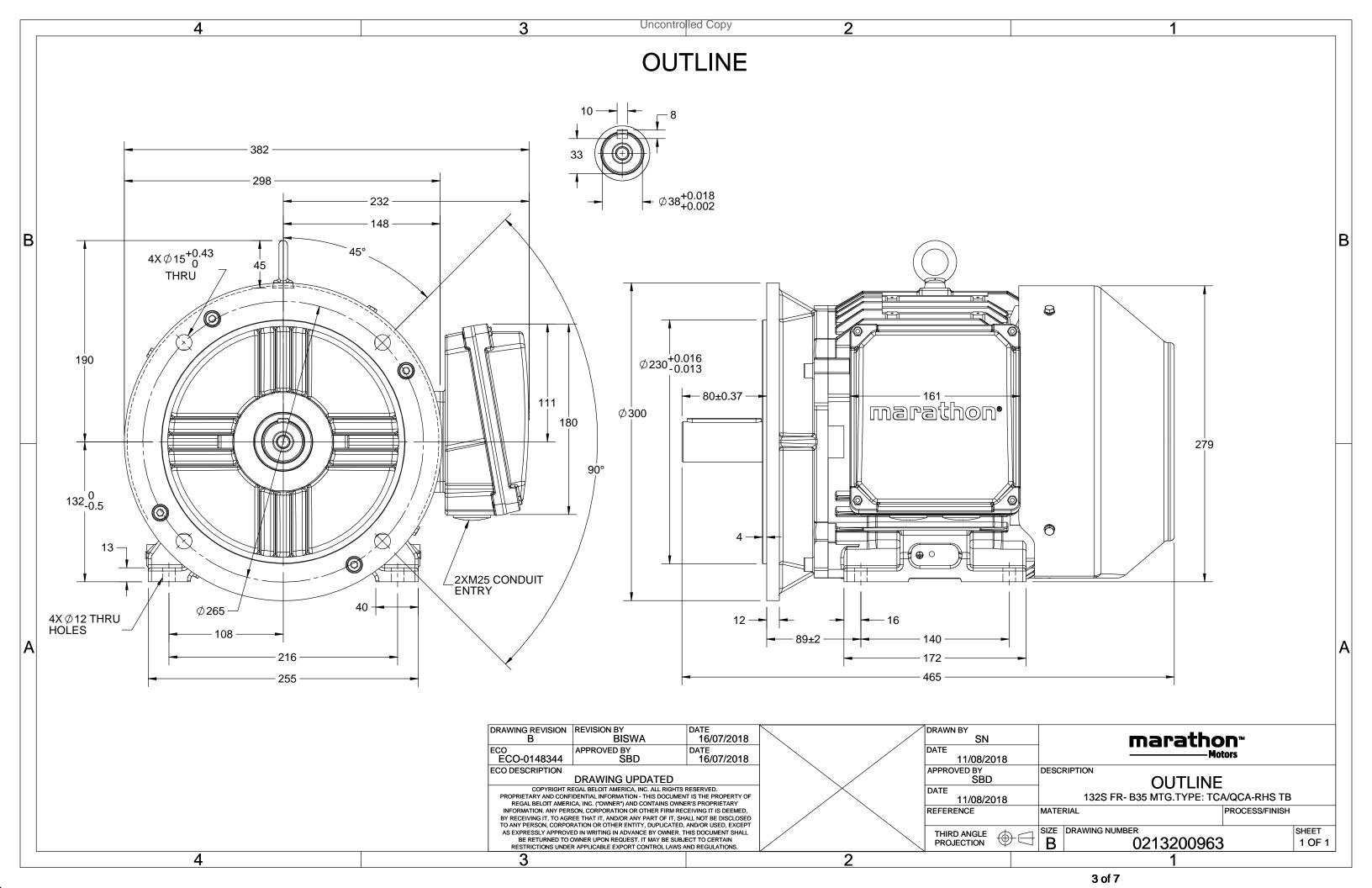
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	380 V
Current	7.5 A	Speed	973 rpm
Service Factor	1	Phase	3
Efficiency	85.6 %	Power Factor	0.71
Duty	S1	Insulation Class	F
Frame	1328	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	Νο	CSA	Νο
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		
Connection Drawing	8442000085	Outline Drawing	0213200963

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TerraMAX[®]

Model No. TCA0033AF133GAC010

(V) 380	-			Р	I	n	т	IE	9	% EFF at	: load	t	PF	at lo	bad	I _A /I _N	T_A/T_N	T_{K}/T_{N}	
380	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]	
	Y	50	3	4	7.5	973	29.34	IE3	-	85.6	85.6	84.3	0.71	0.62	0.47	5.5	2.0	2.6	
					704											10.55			
Motor ty					TCA					gree of p		on				IP 55			
Enclosur	-				TEFC					unting t						IM B35			
Frame M					Cast Irc	n				oling me						IC 411 70			
Frame si	ize				1325					tor wei							kg		
Duty					S1					oss weig		rox.				73		kg	
Voltage					± 10%	,				Motor inertia						0.0390		kgm ²	
Frequen					± 5%				Load inertia					Custo	omer to Provid	e			
Combine	ed varia	ation *			10%				Vibration level						1.6		mm/s		
Design					N				Noi	Noise level (1meter distance from motor				n motor	·)	59		dB(A)	
Service f	factor				1.0				No.	of start	s hot/c	old/Equ	ally spr	ead		2/3/4			
Insulatio	on class				F				Sta	rting me	ethod					DOL			
Ambient	t tempe	erature			-20 to +	40		°C	Тур	e of cou	upling					Direct			
Tempera	ature ri	se (by i	resistance	e)	80 [Class	B]		К	LR	withstar	nd time	(hot/co	ld)			15/30		S	
Altitude	above	sea lev	el		1000			meter	Dire	ection o	f rotatio	on			В	i-directional			
Hazardo	us area	a classif	ication		NA				Sta	ndard ro	otation				Cloc	ckwise form DE			
Z	Zone cla	assifica	tion		NA				Pai	nt shade	5					RAL 5014			
Ģ	Gas gro	up			NA				Acc	essories	5								
т	Temper	ature o	lass		NA					Acc	essory -	1				PTC 150°C			
Rotor typ	ре			Alu	minum D	ie cast				Acc	essory -	2				-			
Bearing t	type			A	nti-frictio	n ball				Accessory - 3					-				
DE / NDE	E bearir	ng		630	8-2Z / 6	208-2Z			Ter	minal b	ox posit	ion				RHS			
Lubricati	ion met	thod		G	reased fo	r life			Ma	ximum	cable siz	ze/cond	uit size	1R	R x 3C x 16mm²/2 x M25 x 1.5				
Type of g	grease				NA					kiliary te						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.

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



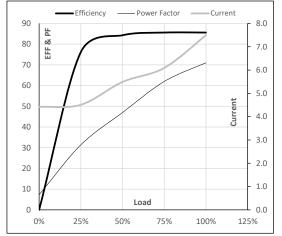


Model No. TCA0033AF133GAC010

Enclosure	U	Δ / Y	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	380	Y	50	3	4.0	7.5	973	2.99	29.34	IE3	40	S1	1000	0.039	70

Motor Load Data													
	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL							
А	4.4	4.5	5.5	6.1	7.5								
Nm	0.0	7.2	14.5	21.8	29.3								
r/min	1000	994	987	981	973								
%	0.0	76.2	84.3	85.6	85.6								
%	7.3	31.4	47.0	62.0	71.0								
	A Nm r/min %	NL A 4.4 Nm 0.0 r/min 1000 % 0.0	NL 1/4FL A 4.4 4.5 Nm 0.0 7.2 r/min 1000 994 % 0.0 76.2	NL 1/4FL 1/2FL A 4.4 4.5 5.5 Nm 0.0 7.2 14.5 r/min 1000 994 987 % 0.0 76.2 84.3	NL 1/4FL 1/2FL 3/4FL A 4.4 4.5 5.5 6.1 Nm 0.0 7.2 14.5 21.8 r/min 1000 994 987 981 % 0.0 76.2 84.3 85.6	NL 1/4FL 1/2FL 3/4FL FL A 4.4 4.5 5.5 6.1 7.5 Nm 0.0 7.2 14.5 21.8 29.3 r/min 1000 994 987 981 973 % 0.0 76.2 84.3 85.6 85.6							

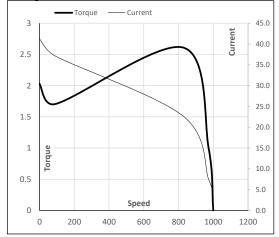
Performance vs Load Chart



Motor Speed Torque Data

Motor Spee	d Torque Dat	а				
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	91	827	973	1000
Current	А	41.2	37.1	22.7	7.5	4.4
Torque	pu	2.0	1.7	2.6	1	0

Starting Characteristics Chart



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

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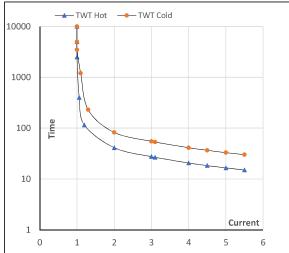
Model No. TCA0033AF133GAC010

Enclosure	U	Δ / Y	f	Р	Р	Ι	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	380	Y	50	3	4.0	7.5	973	2.99	29.34	IE3	40	S1	1000	0.039	70

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I ₄	l 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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