PRODUCT INFORMATION PACKET

Model No: TCN0043A1133GAC010 Catalog No: TCN0043A1133GAC010 TerraMAX® Cast Iron Motor, 5.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 132M Frame, TEFC



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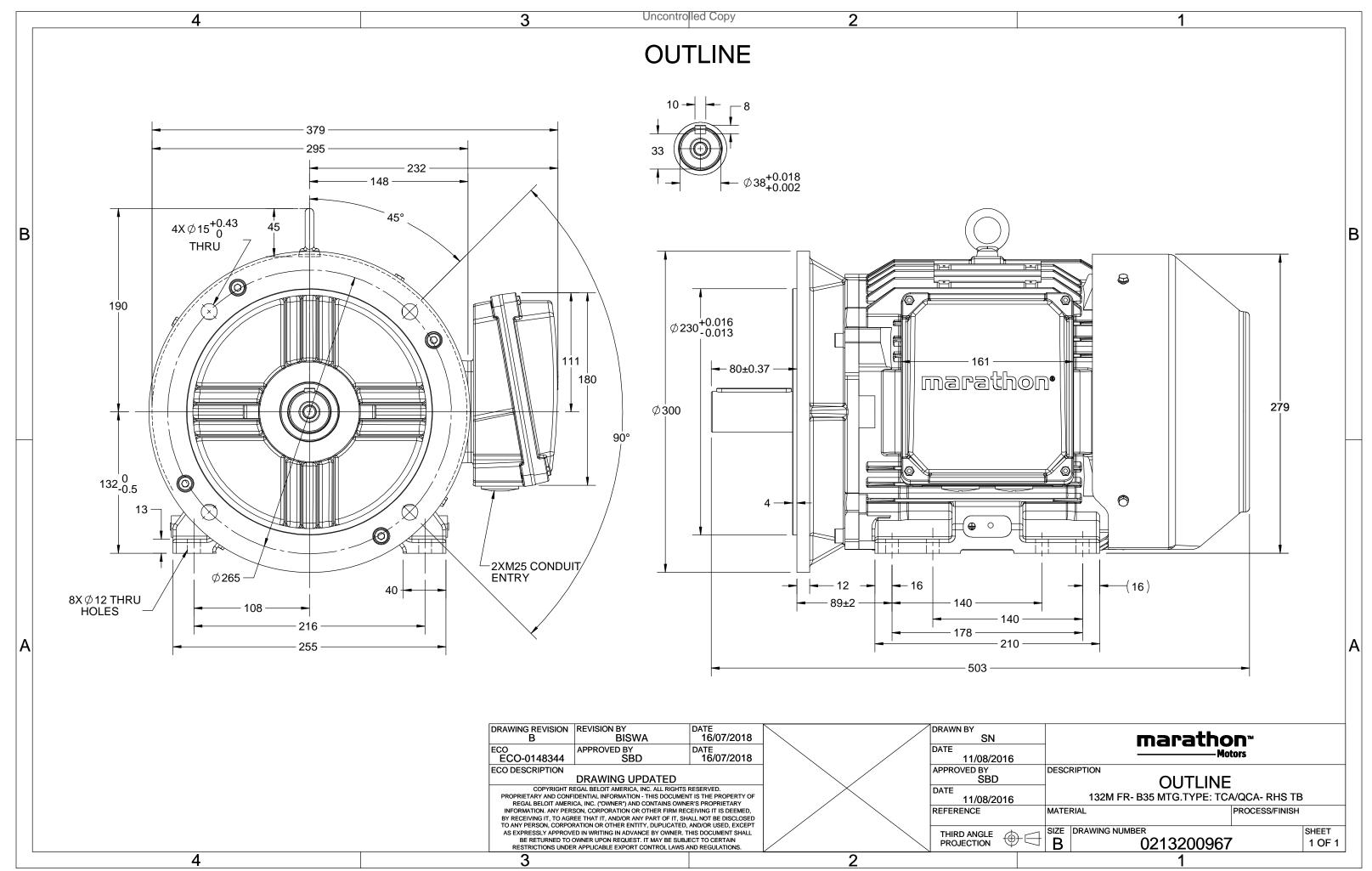
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	400 V
Current	9.0 A	Speed	973 rpm
Service Factor	1	Phase	3
Efficiency	86.8 %	Power Factor	0.74
Duty	S1	Insulation Class	F
_			
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	132M No Protection	Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6308	Ambient Temperature Opp Drive End Bearing Size	40 °C 6208

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	503 mm	Frame Length	240 mm
Shaft Diameter	38 mm	Shaft Extension	80 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0213200967	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF	at loa	ıd	PF	at_lo	oad	I _A /I _N	T_A/T_N	T _κ /T _N
(∨)	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	4	5.5	9.0	973	40.34	IE3	-	86.8	86.8	85.9	0.74	0.65	0.5	5.6	2.1	2.6
Motor	type				TCN				De	gree of	protectio	n				IP 55		
Enclos					TEFC	:				unting						IM B35		
Frame	Materia	I			Cast Ir	on				oling me						IC 411		
Frame	size				132N	1				•	ight - app	orox.				76		kg
Duty					S1				Gro	oss weig	ght - app	rox.				79		kg
Voltag	e variatio	on *			± 109	6			Mo	tor ine	rtia					0.0494		kgm ²
	ency vari				± 5%	5			Loa	id inerti	ia				Custo	omer to Provi	de	-
Combi	ned varia	ation *			10%				Vib	ration l	evel					1.6		mm/s
Design					Ν				No	ise leve	l (1mete	r distance	e from n	notor)		59		dB(A)
Service	factor				1.0				No	of star	ts hot/co	old/Equall	y sprea	d		2/3/4		
Insulat	ion class	5			F				Sta	rting m	ethod					DOL		
Ambie	nt tempe	erature			-20 to -	⊦40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	ise (by	resistan	ce)	80 [Clas	s B]		К	LR	withsta	nd time	(hot/cold)				15/30		s
Altitud	e above	sea lev	/el		1000)		meter	Dir	ection o	of rotatio	n			В	i-directional		
Hazard	lous area	a classi	fication		Ex n/	4			Sta	Standard rotation					Clockwise form DE			
	Zone cl	assifica	ition		Zone	2			Pai	nt shad	e					RAL 5014		
	Gas gro	oup			IIC				Acc	essorie	es							
	Temper	rature	class		Т3					Ace	cessory -	1				PTC 150°C		
Rotor t	ype			Al	uminum l	Die cast				Ace	cessory -	2				-		
Bearin	g type			A	Anti-frictio	on ball				Ace	cessory -	3				-		
DE / N	DE beari	ng		63	08-2Z /	6208-2Z			Ter	minal b	ox positi	ion				RHS		
Lubrica	ation me	thod		C	Greased f	or life			Ma	ximum	cable siz	e/conduit	size	18	R x 3C x 1	L6mm²/2 x M	25 x 1.5	
Туре о	f grease				NA				Aux	kiliary te	erminal b	хох				NA		

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

 T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - Breakdown 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	change. There may be slight vari	ations between calculated	d values in this datashee	t and the motor namepl	ate 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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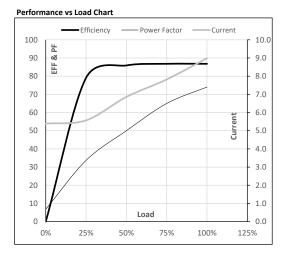


Model No. TCN0043A1133GAC010

Enclosure	U	Δ / Y	f	Р	Р	1	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	4	5.5	9.0	973	4.11	40.34	IE3	40	S1	1000	0.0494	76
	400	4	50	4	5.5	5.0	575	4.11	40.54	163	40	51	1000	0.0454	

Motor Load Data

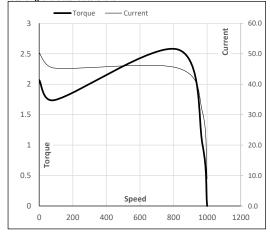
5.4	5.6	6.0			
	5.0	6.9	7.8	9.0	
n 0.0	9.9	19.9	30.0	40.3	
n 1000	994	987	980	973	
6 0.0	79.1	85.9	86.8	86.8	
6.8	33.7	50.0	65.0	74.0	
	n 1000 6 0.0	n 1000 994 6 0.0 79.1	n 1000 994 987 6 0.0 79.1 85.9	n 1000 994 987 980 6 0.0 79.1 85.9 86.8	n 1000 994 987 980 973 6 0.0 79.1 85.9 86.8 86.8



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	826	973	1000	
Current	А	50.3	45.3	30.7	9.0	5.4	
Torque	pu	2.1	1.7	2.6	1	0	





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

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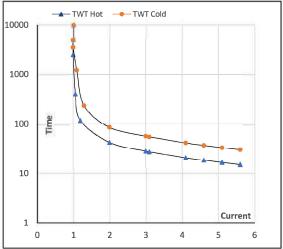


Model No. TCN0043A1133GAC010

Enclosure	U	Δ/Υ	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	4	5.5	9.0	973	4.11	40.34	IE3	40	S1	1000	0.0494	76

Motor Spee	d Torq	ue Data						
Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	42	28	21	19	17	15
TWT Cold	s	10000	84	56	42	38	34	30
Current	pu	1	2	3	4	4.5	5	5.6

Thermal Characteristics Chart



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

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