PRODUCT INFORMATION PACKET

Model No: TCN7P52A1133GAC010 Catalog No: TCN7P52A1133GAC010 TerraMAX® Cast Iron Motor, 10 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 132M Frame, TEFC



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Motors

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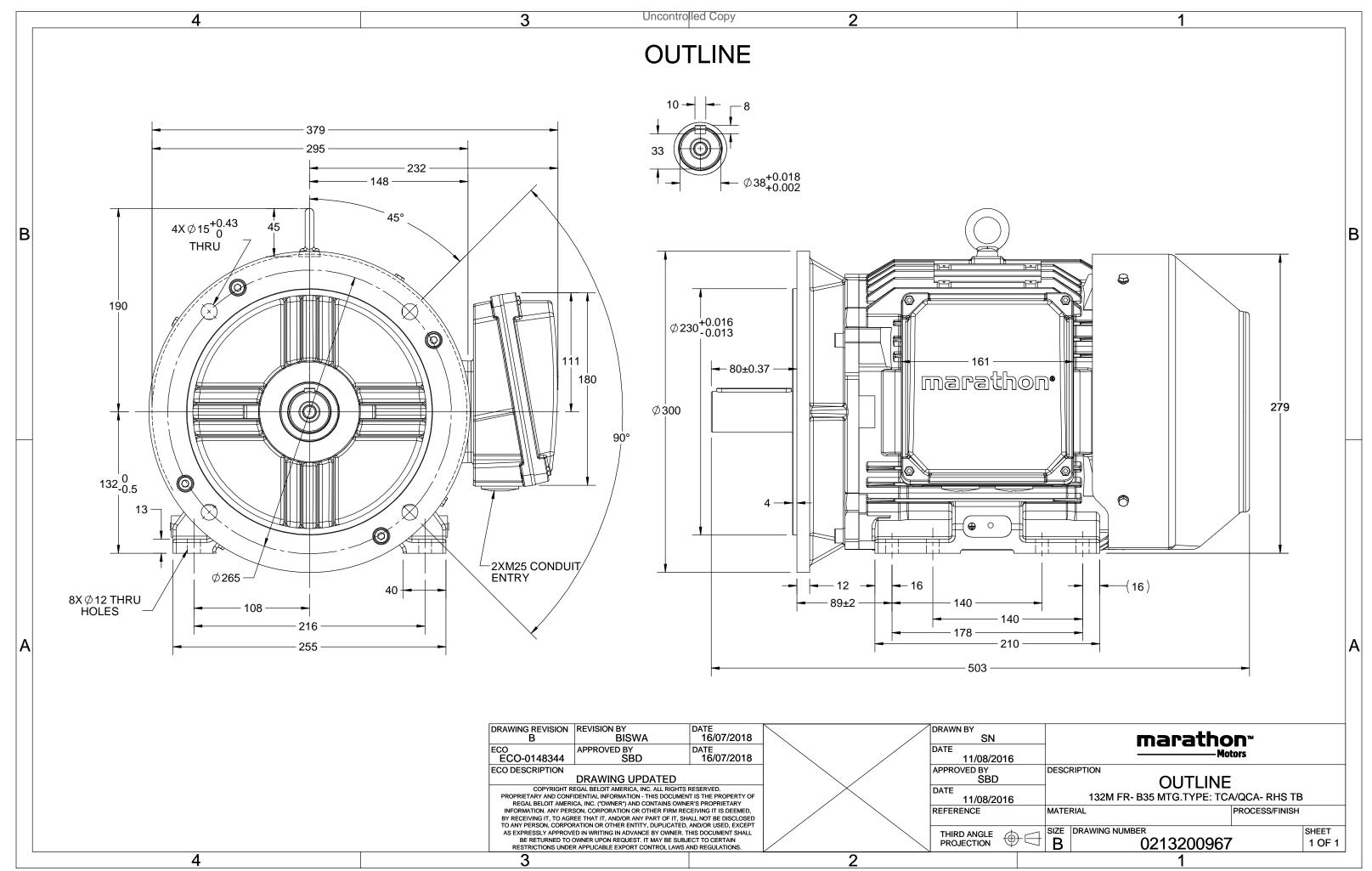
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	50 Hz	Voltage	400 V
Current	14.4 A	Speed	1470 rpm
Service Factor	1	Phase	3
Efficiency	90.4 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	132M	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	132M No Protection	Enclosure 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	4	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		
Connection Drawing	8442000085	Outline Drawing	0213200967

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U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF	at loa	ıd	PF	at_lo	bad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(∨)	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	7.5	10	14.4	1470	48.47	IE3	-	90.4	90.4	90.4	0.83	0.77	0.65	7.5	2.8	3
Motor	tupo				TCN				Do	aroo of	protectio	20				IP 55		
Enclos					TEFC					unting		ווע				IM B35		
	Materia				Cast In					oling m						IC 411		
Frame					132N					•	ght - app	rox				97		kg
Duty	3120				S1						ght - app					100		kg
,	e variatio	on *			± 10%	6				tor ine						0.0550		kgm ²
	ency vari				± 5%					id inert					Custo	omer to Provid	le	
	ned varia				10%					ration l						1.6		mm/s
Design					Ν				No	ise leve	l (1mete	er distance	e from n	notor)		61		dB(A)
Service	e 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)				10/20		S
Altitud	e above	sea lev	vel		1000)		meter	Dir	ection o	of rotatio	n			В	i-directional		
Hazard	lous area	a classi	fication		Ex nA	4			Sta	ndard r	otation				Cloc	kwise form DI	E	
	Zone cl	assifica	ition		Zone	2			Pai	nt shad	e					RAL 5014		
	Gas gro	oup			IIC				Acc	essorie	s							
	Temper	rature	class		Т3					Ac	cessory -	1				PTC 150°C		
Rotor t	type			Al	uminum (Die cast				Ac	cessory -	2				-		
Bearin	g type			A	nti-frictio	on ball				Ac	cessory -	3				-		
DE / N	DE beari	ng		63	08-2Z /	6208-2Z			Ter	minal b	ox positi	ion				RHS		
Lubrica	ation me	thod		(Greased for	or life			Ma	ximum	cable siz	e/conduit	size	18	x 3C x 1	.6mm²/2 x M2	25 x 1.5	
Туре о	f grease				NA				Au	kiliary t	erminal k	ох				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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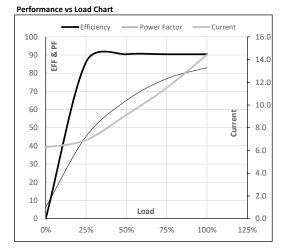


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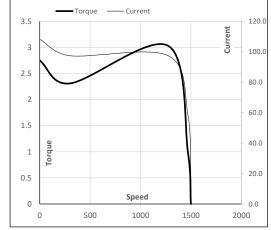
Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	7.5	10	14.4	1470	4.94	48.47	IE3	40	S1	1000	0.055	97

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	6.3	6.9	9.1	11.5	14.4	
Torque	Nm	0.0	11.9	24.0	36.1	48.5	
Speed	r/min	1500	1493	1486	1478	1470	
Efficiency	%	0.0	86.1	90.4	90.4	90.4	
Power Factor	%	6.3	45.2	65.0	77.0	83.0	



Starting Characteristics Chart



Motor Speed Torque Data Load Point LR P-Up BD Rated NL Speed r/min 0 300 1275 1470 1500 Current 108.2 97.4 58.7 14.4 6.3 Α 2.8 2.3 3.0 1 0 Torque pu

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

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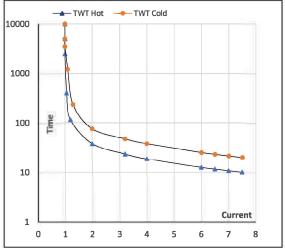
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	7.5	10.0	14.4	1470	4.94	48.47	IE3	40	S1	1000	0.055	93

Motor Speed Torque Data LR Load FL I_1 l₂ l₃ I_4 ls TWT Hot s 10000 38 26 19 16 13 10 50 s 10000 75 38 20 TWT Cold 35 24 Current 3 4 5 5.5 7.5 pu 1 2

Thermal Characteristics Chart



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

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