PRODUCT INFORMATION PACKET

Model No: TCN2P22A1133GAC010 Catalog No: TCN2P22A1133GAC010 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 100L Frame, TEFC



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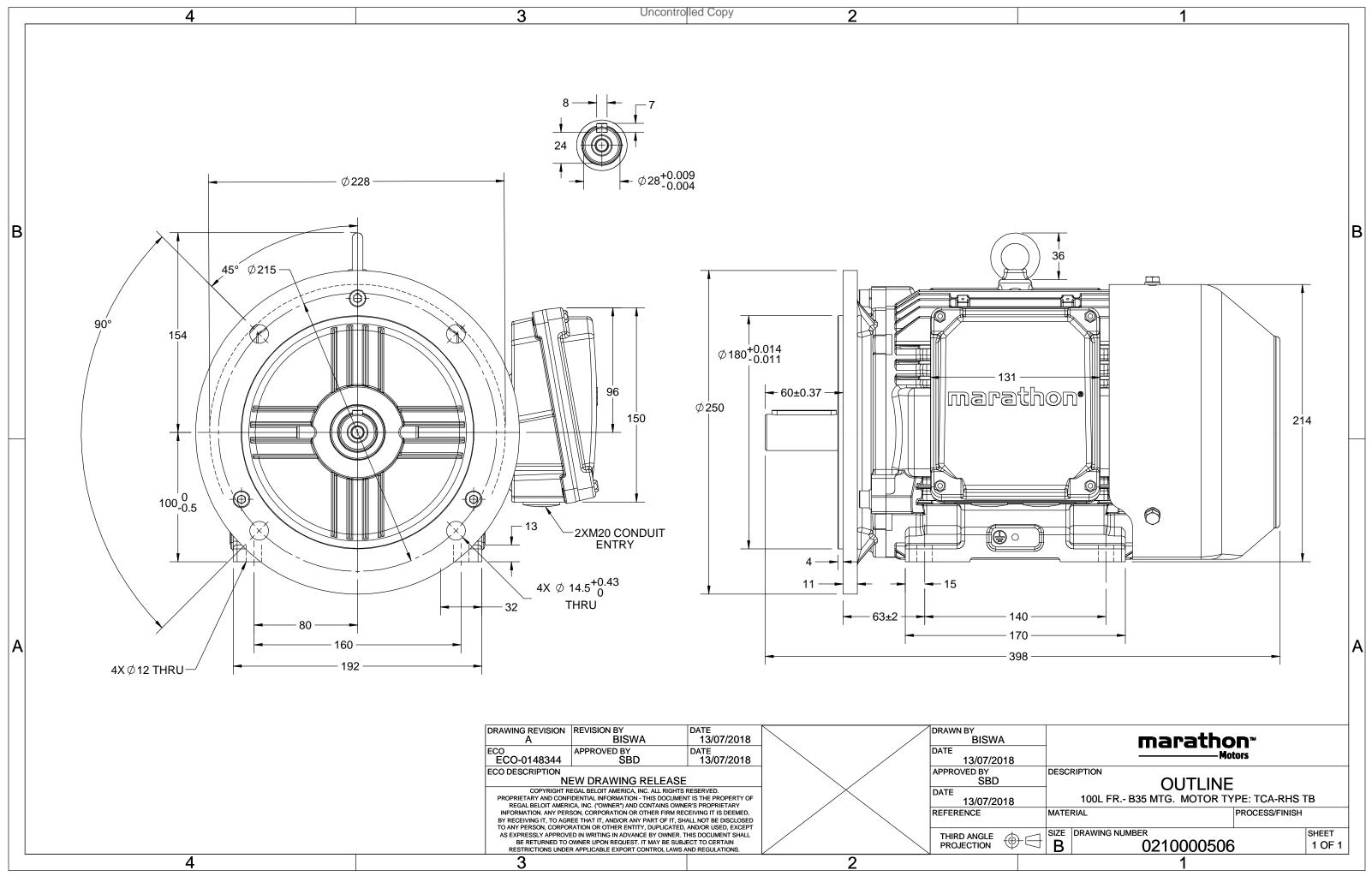
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW
Frequency	50 Hz	Voltage	400 V
Current	4.4 A	Speed	1456 rpm
Service Factor	1	Phase	3
Efficiency	86.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
Drive End Bearing Size UL	6206 No	Opp Drive End Bearing Size CSA	6206 No

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	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0210000506	Connection Drawing	8442000085

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3 of 7





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Model No. TCN2P22A1133GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF	at loa	d	PF	at_lo	bad	I _A /I _N	T_A/T_N	T _K /T _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	2.2	3.0	4.4	1456	14.67	IE3	-	86.7	86.7	85.1	0.84	0.77	0.65	7	2.3	2.9
Motor	type				TCN				De	aree of	protectio	n				IP 55		
Enclosi	<i>'</i> ''				TEFC					unting		211				IM B35		
	Materia	I			Cast Ir					oling m						IC 411		
Frame		•			100	_				•	ight - app	orox.				41		kg
Duty					S1						ght - app				0.77 0.65 7 IP 55 IM B35 IC 411 41 44 0.0115 Customer to Provide 1.6			kg
Voltage	e variatio	on *			± 109	6				tor ine						0.0115		kgm ²
	ncy vari				± 5%	, 5			Loa	id inert	ia				Custo	omer to Provi	de	0
Combi	ned varia	ation *			10%				Vib	ration l	evel					1.6		mm/s
Design					Ν				No	ise leve	l (1mete	r distance	from n	notor)		55		dB(A)
Service	factor				1.0				No	of star	ts hot/co	old/Equal	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)			1.6 or) 55 2/3/4 DOL Direct 10/20 Bi-directional Clockwise form DE			S
Altitud	e above	sea lev	rel		1000)		meter	Dir	ection o	of rotatio	n			2/3/4 DOL Direct 10/20 Bi-directional			
Hazard	ous area	a classif	fication		Ex n/	4			Sta	ndard ı	otation				Cloc	kwise form D	E	
	Zone cl	assifica	tion		Zone	2			Pai	nt shad	е					RAL 5014		
	Gas gro	up			IIC				Acc	cessorie	es							
	Temper	rature o	class		Т3					Ac	cessory -	1				PTC 150°C		
Rotor t	ype				uminum I					Ac	cessory -	2				-		
Bearing	g type				nti-frictio					Ac	cessory -	3				-		
	DE beari	0			06-2Z /						ox positi							
Lubrica	ition me	thod		C	Greased f	or life						e/conduit	size	18	x 3C x 1	.0mm²/2 x M	20 x 1.5	
Type o	f grease				NA				Aux	kiliary t	erminal b	юх				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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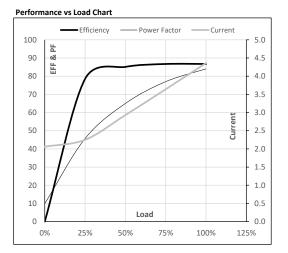


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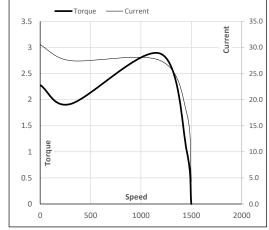
Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	2.2	3.0	4.4	1456	1.50	14.67	IE3	40	S1	1000	0.0115	41

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	2.1	2.3	2.9	3.6	4.4	
Torque	Nm	0.0	3.6	7.2	10.9	14.7	
Speed	r/min	1500	1490	1480	1469	1456	
Efficiency	%	0.0	78.5	85.1	86.7	86.7	
Power Factor	%	9.9	45.7	65.0	77.0	84.0	



Starting Characteristics Chart



Motor Speed Torque Data Load Point LR P-Up BD Rated NL Speed r/min 0 300 1194 1456 1500 30.5 27.5 17.3 4.4 2.1 Current А 2.3 1.9 2.9 1 0 Torque pu

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

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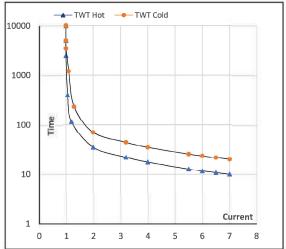
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	2.2	3.0	4.4	1456	1.50	14.67	IE3	40	S1	1000	0.0115	41

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	35	24	18	15	13	10
TWT Cold	S	10000	70	45	35	30	26	20
Current	pu	1	2	3	4	5	5.5	7

Thermal Characteristics Chart



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

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