PRODUCT INFORMATION PACKET

Model No: TCN2P22A1171GAC010 Catalog No: TCN2P22A1171GAC010 TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 100L Frame, TEFC



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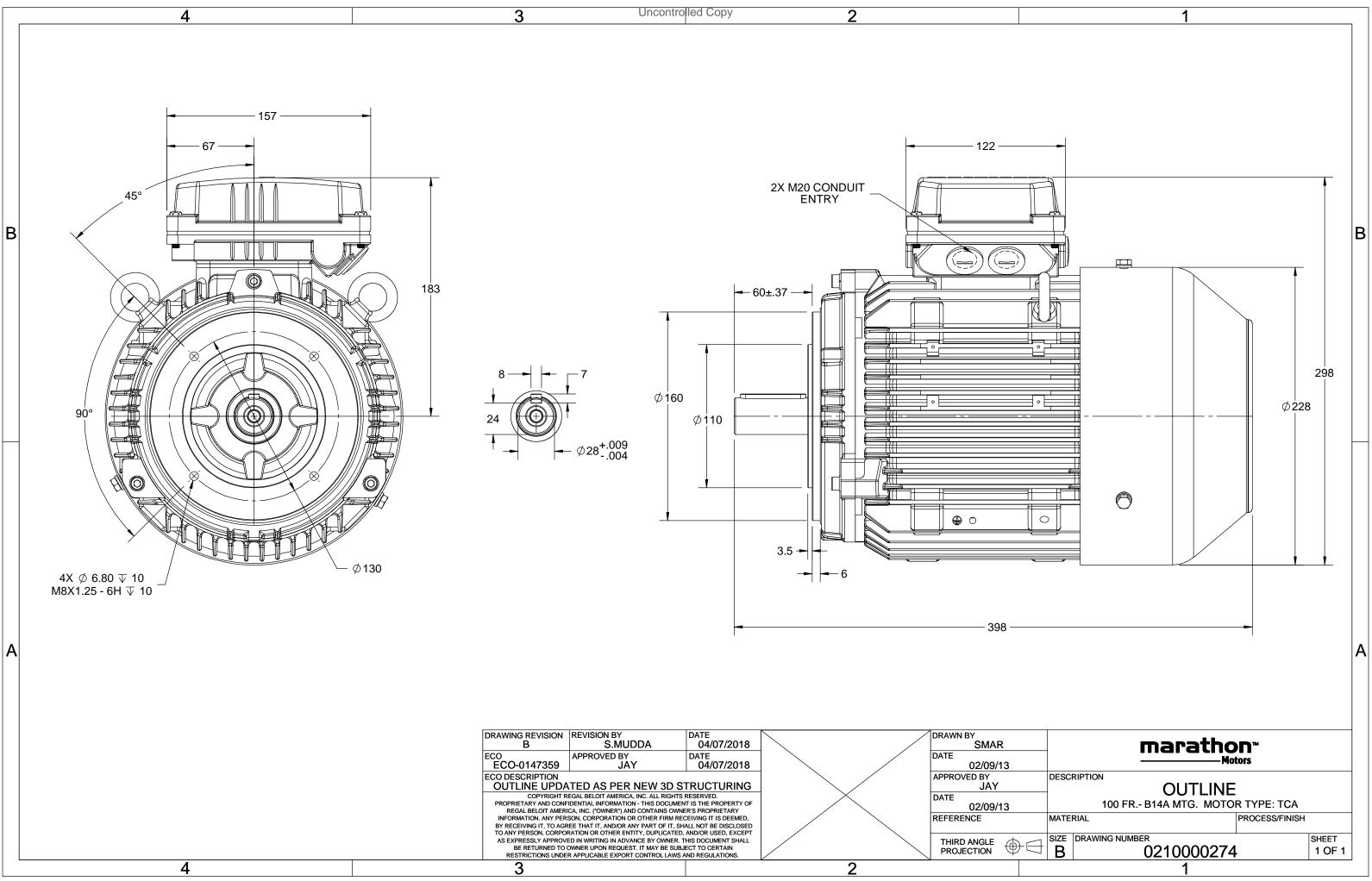
Nameplate Specifications

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
UL	No	CSA	No
CE	Yes	IP Code	55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line	
Poles	4	Rotation	Bi-Directional	
Mounting	B14A	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	Тор			
Outline Drawing	0210000274	Connection Drawing	8442000085	

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U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	nt load	d	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	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				Deg	gree of	protectio	on				IP 55			
Enclos	ure				TEFC	2			Мо	unting	type				IM B14A				
Frame	Materia	I			Cast Ir	on			Coc	oling me	ethod					IC 411			
Frame	size				1001	-			Мо	tor wei	ght - app	orox.			39			kg	
Duty					S1				Gro	ss weig	ht - app	rox.			42			kg	
Voltag	e variatio	on *			± 109	6			Мо	tor iner	tia					0.0115		kgm ²	
Freque	ency vari	ation *			± 5%)			Loa	d inerti	а				Cust	omer to Provic	le		
Combi	ned varia	ation *			10%				Vib	ration l	evel					1.6		mm/s	
Design	l.				N				Noi	se leve	(1mete	er distan	ce from	motor)		55		dB(A)	
Service	e factor				1.0				No.	of star	ts hot/co	old/Equa	lly spre	ad		2/3/4			
Insulat	ion class	5			F				Sta	rting m	ethod					DOL			
Ambie	nt tempe	erature			-20 to -	-40		°C	Тур	Type of coupling					Direct				
Tempe	erature ri	ise (by i	resistan	ce)	80 [Clas	-		K	LR v	LR withstand time (hot/cold)						10/20			
Altitud	e above	sea lev	el		1000)		meter	Dire	Direction of rotation						Bi-directional			
Hazard	lous area	a classif	fication		Ex n/				Sta	Standard rotation						Clockwise form DE			
	Zone cl	assifica	tion		Zone	2			Pair	nt shad	e					RAL 5014			
	Gas gro	oup			IIC				Acc	essorie	S								
	Tempe	rature o	class		Т3					Ace	cessory -	- 1				PTC 150°C			
Rotor t	type				uminum l						cessory -					-			
Bearin	• / .				nti-frictio						cessory -					-			
-	DE beari	•)6-2Z /						ox positi					TOP			
	ation me			G	ireased f	or life						ze/condu	it size	16	x 3C x 1	10mm²/2 x M2	0 x 1.5		
Туре о	f grease				NA				Aux	diliary te	erminal k	хох				NA			
											- 1 - 1	-		-					

 I_{A}/I_{N} - Locked Rotor Current / Rated Current T_{A}/T_{N} - Locked Rotor Torque / Rated Torque

T_K/T_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 chang	e. There may be slight v	ariations between calculated	values in this datasheet	and the motor namep	late 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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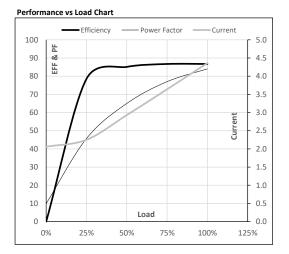


Model No. TCN2P22A1171GAC010

							1	1	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	2.2	3.0	4.4	1456	1.50	14.67	IE3	40	S1	1000	0.0115	39

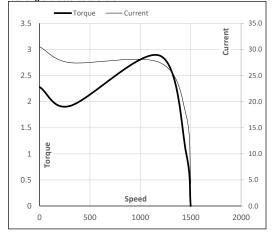
Motor Load Data

2.1	2.3	2.9	3.6	4.4	
0.0					
0.0	3.6	7.2	10.9	14.7	
1500	1490	1480	1469	1456	
0.0	78.5	85.1	86.7	86.7	
9.9	45.7	65.0	77.0	84.0	
	1500 0.0	1500 1490 0.0 78.5	1500 1490 1480 0.0 78.5 85.1	1500 1490 1480 1469 0.0 78.5 85.1 86.7	1500 1490 1480 1469 1456 0.0 78.5 85.1 86.7 86.7



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

Starting Characteristics Chart



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

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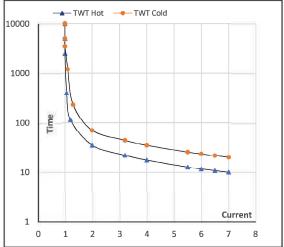
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Ŷ	50	2.2	3.0	4.4	1456	1.50	14.67	IE3	40	S1	1000	0.0115	39
11								1.00	2				1000		

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	l 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



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

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