PRODUCT INFORMATION PACKET

Model No: TCA1P13A1171GAC010 Catalog No: TCA1P13A1171GAC010 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 90L Frame, TEFC



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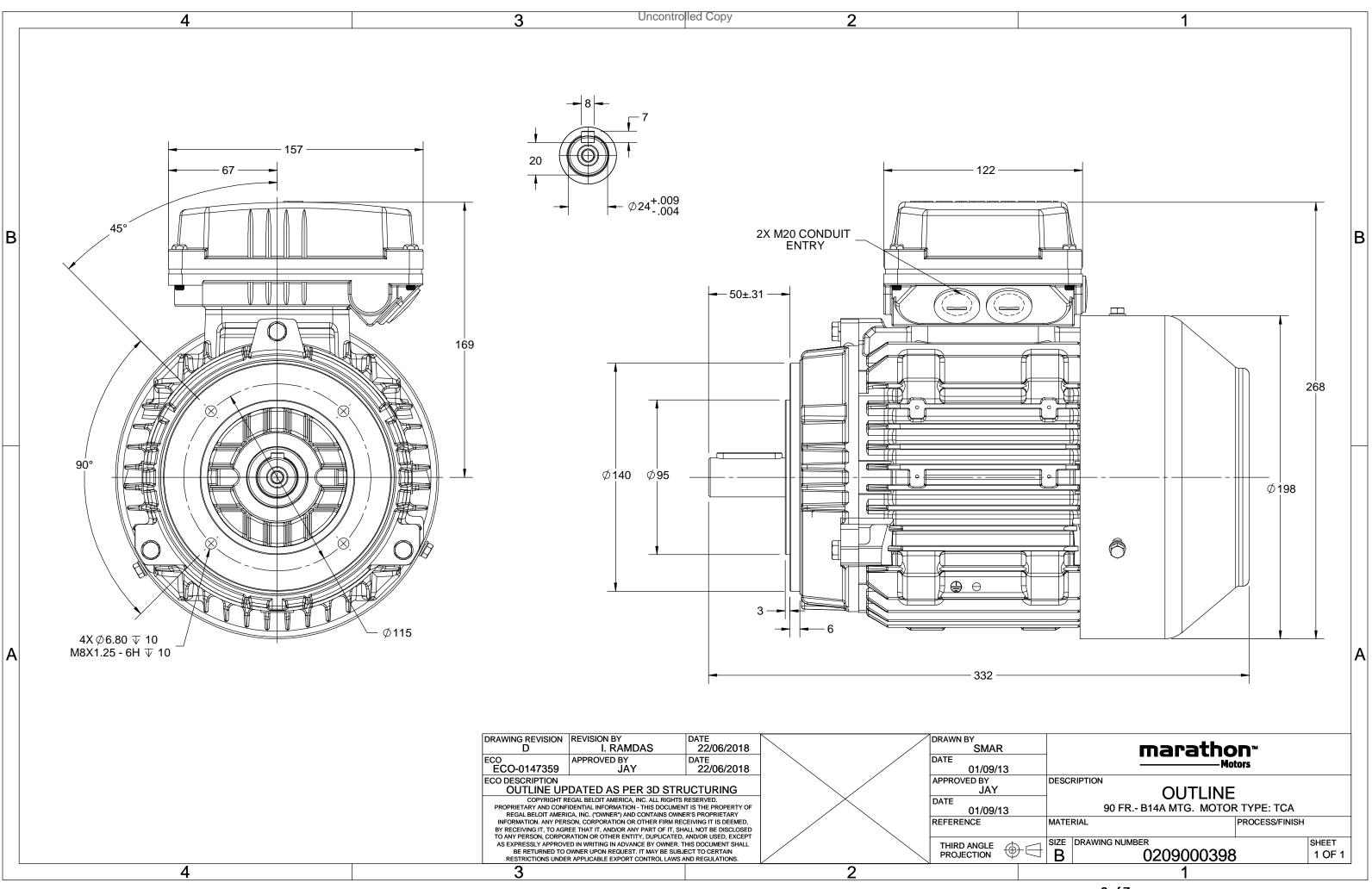
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	50 Hz	Voltage	400 V
Current	3.0 A	Speed	941 rpm
Service Factor	1	Phase	3
Efficiency	81 %	Power Factor	0.66
Duty	S1	Insulation Class	F
Frame	90L	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	90L 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 6205	Ambient Temperature Opp Drive End Bearing Size	40 °C 6205

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	332 mm	Frame Length	153 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0209000398	Connection Drawing	8442000085

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TerraMAX[®]

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE	9	% EFF a	t loa	b	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	1.1	1.5	3.0	941	11.35	IE3	-	81	81	74.8	0.66	0.55	0.39	4.8	3.0	3.0
Motor	tyne				TCA				Dee	ree of	protecti	on				IP 55		
Enclosu	/ .				TEFC					unting		011				IM B14A		
	Material	l			Cast Iro	on				ling me						IC 411		
Frame					90L					•	ght - ap	prox.				27		kg
Duty					S1						ght - app	•				28		kg
•	e variatio	on *			± 10%	6				tor ine						0.0046		kgm ²
	ncy varia				± 5%				Loa	d inerti	ia				Custo	omer to Pro	vide	Ū
Combir	ned varia	ation *			10%				Vib	ration l	evel					1.6		mm/s
Design					Ν				Noi	se leve	l (1met	er dista	nce fror	n motor	.)	51		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulati	on class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct		
Temper	rature ri	se (by i	resistand	ce)	80 [Class	5 B]		К	LR ۱	withsta	nd time	(hot/co	ld)			15/30		S
Altitude	e above	sea lev	el		1000			meter	Dire	ection o	of rotati	on			В	i-directiona	l	
Hazard	ous area	a classif	fication		NA				Sta	ndard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pair	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temper	ature o	class		NA					Ace	cessory	- 1				PTC 150°C		
Rotor ty	уре			Alu	uminum D)ie cast				Ace	cessory	- 2				-		
Bearing	g type			A	nti-frictio	n ball				Ace	cessory	- 3				-		
DE / NC	DE beariı	ng		620)5-2Z / 6	6205-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrica	tion me	thod		G	ireased fo	or life			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 1	10mm²/2 x l	M20 x 1.5	
Type of	grease				NA				Aux	iliary te	erminal	box				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. Aus/Nz Brazil India Efficiency Europe China

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



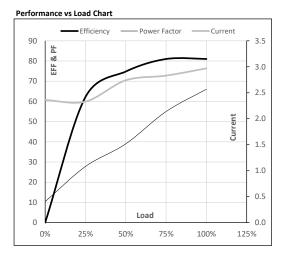


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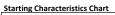
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.1	1.5	3.0	941	1.16	11.35	IE3	40	S1	1000	0.0046	27

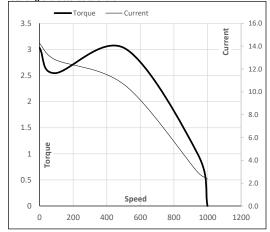
Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.4	2.3	2.7	2.8	3.0	
Torque	Nm	0.0	2.7	5.5	8.4	11.3	
Speed	r/min	1000	986	972	958	941	
Efficiency	%	0.0	62.2	74.8	81.0	81.0	
Power Factor	%	10.4	27.8	39.0	55.0	66.0	



Motor Speed	l Torque Dat	а					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	91	508	941	1000	
Current	А	14.3	12.8	10.6	3.0	2.4	
Torque	pu	3.0	2.5	3.0	1	0	





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

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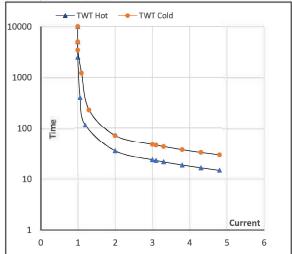
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.1	1.5	3.0	941	1.16	11.35	IE3	40	S1	1000	0.0046	27

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	1 ₅	LR
TWT Hot	s	10000	36	24	19	17	16	15
TWT Cold	s	10000	72	48	41	35	31	30
Current	pu	1	2	3	3.5	4	4.5	4.8

Thermal Characteristics Chart



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

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