PRODUCT INFORMATION PACKET

Model No: TCAP753A1113GAC010 Catalog No: TCAP753A1113GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 90S Frame, TEFC



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Motors

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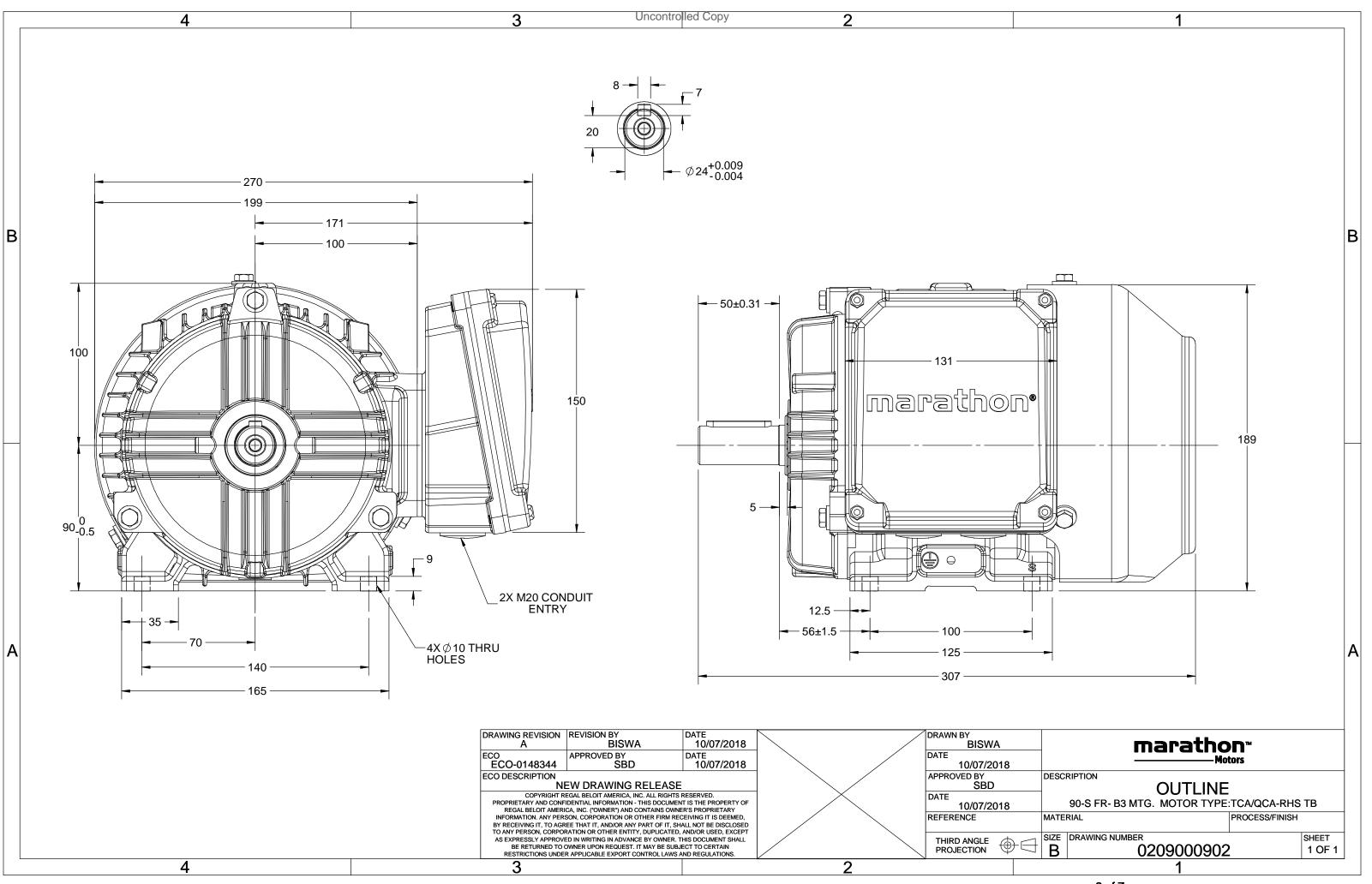
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 V
Current	2.1 A	Speed	946 rpm
Service Factor	1	Phase	3
Efficiency	78.9 %	Power Factor	0.64
Duty	S1	Insulation Class	F
Frame	90S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	No	CSA	No
CE	Yes	IP Code	55
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	307 mm	Frame Length	128 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0209000902	Connection Drawing	8442000085

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Model No. TCAP753A1113GAC010

U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t load	ł	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	0.75	1	2.1	946	7.53	IE3	-	78.9	78.9	71.1	0.64	0.52	0.38	4.8	3.0	3.1
Motor	type				TCA				De	gree of	protecti	on				IP 55		
Enclosu	ire				TEFC				Mc	ounting	type					IM B3		
Frame I	Materia	I			Cast Ire	on			Co	oling me	ethod					IC 411		
Frame	size				90S				Mc	otor wei	ght - ap	orox.				24		kg
Duty					S1				Gro	oss weig	ht - app	rox.				25		kg
Voltage	e variatio	on *			± 10%	b b			Mc	otor iner	tia					0.0036		kgm ²
Freque	ncy varia	ation *			± 5%				Loa	ad inerti	а				Custo	omer to Pro	vide	
Combir	ned varia	ation *			10%				Vib	ration l	evel					1.6		mm/s
Design					Ν				No	ise leve	(1mete	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	be of co	upling					Direct		
Temper	rature ri	ise (by	resistand	ce)	80 [Clas	s B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		S
Altitude	e above	sea lev	el		1000			meter	Dir	ection c	of rotatio	on			В	i-directiona	I	
Hazard	ous area	a classif	fication		NA				Sta	ndard r	otation				Cloc	ckwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Aco	cessorie	s							
	Temper	rature o	class		NA					Aco	essory -	1				PTC 150°C		
Rotor ty	уре			Alu	uminum [Die cast				Aco	essory -	2				-		
Bearing	g type			A	nti-frictic	n ball				Aco	essory -	3				-		
DE / ND	DE beari	ng		620	05-2Z / (5205-2Z			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	Greased for	or life			Ma	iximum	cable si	ze/cond	uit size	1R	x 3C x 1	10mm²/2 x l	M20 x 1.5	
Type of	fgrease				NA				Au	xiliary 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

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NOTE

Standards

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 GB 18613-2012 Grade 2

Global IEC -IEC: 60034-30 -_



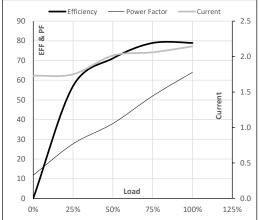


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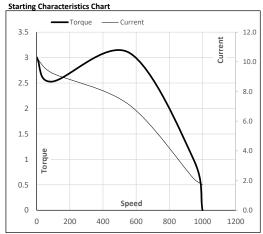
Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	0.75	1.0	2.1	946	0.77	7.53	IE3	40	S1	1000	0.0036	24
TLIC	400	ř	50	0.75	1.0	2.1	946	0.77	7.53	IE3	40	51	1000	0.0036	

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.7	1.8	2.0	2.1	2.1	
Torque	Nm	0.0	1.8	3.7	5.6	7.5	
Speed	r/min	1000	986	974	961	946	
Efficiency	%	0.0	57.0	71.1	78.9	78.9	
Power Factor	%	11.8	27.7	38.0	52.0	64.0	

Performance vs Load Chart



Speed r/min 0 91 556 946 1000 Current A 10.3 9.3 7.1 2.1 1.7	Motor Speed Torque Data											
Current A 10.3 9.3 7.1 2.1 1.7	Load Point		LR	P-Up	BD	Rated	NL					
	Speed	r/min	0	91	556	946	1000					
	Current	А	10.3	9.3	7.1	2.1	1.7					
Torque pu 3.0 2.5 3.1 1 0	Torque	pu	3.0	2.5	3.1	1	0					



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

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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	0.75	1.0	2.1	946	0.77	7.53	IE3	40	S1	1000	0.0036	24

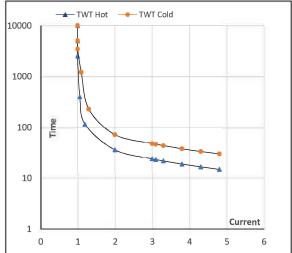
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LR

Motor Speed Torque Data Load FL I1 I2 I3 I4

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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