PRODUCT INFORMATION PACKET

Model No: TCAP753AF113GAC010 Catalog No: TCAP753AF113GAC010 TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 380 V, 1000 RPM, 90S Frame, TEFC



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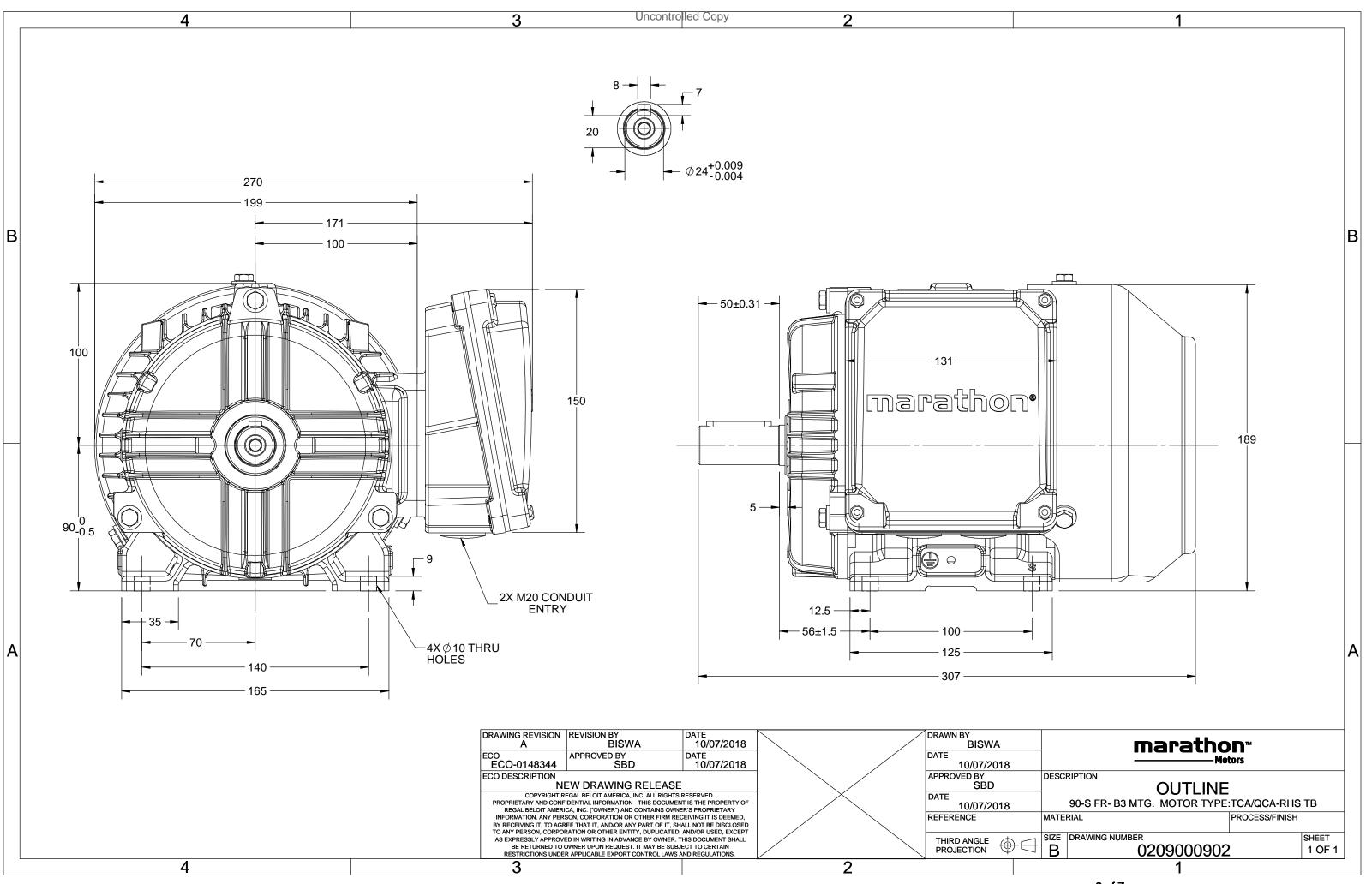
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	380 V
Current	2.3 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 Desta stine		
	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Ambient Temperature Opp Drive End Bearing Size	40 °C 6205
		· ·	
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205

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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$U \Delta / Y f$	Р	Р	Ι	n	Т	IE	9	% EFF at	t load	ł	PF	at lo	ad	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]
380 Y 50	0.75	1	2.26	946	7.53	IE3	-	78.9	78.9	71.1	0.64	0.52	0.38	4.8	3.0	3.1
			TOA											10.55		
Motor type			TCA						orotecti	on				IP 55		
Enclosure			TEFC					unting						IM B3		
Frame Material			Cast Iro	n				oling me						IC 411		
Frame size			905						ght - ap					24		kg
Duty	S1 Gross weight - appro						rox.				25		kg			
Voltage variation *			± 10%					Motor inertia						0.0036		kgm ²
Frequency variation *			± 5%				Loa	Load inertia					Custo	de		
Combined variation *			10%				Vib	Vibration level						1.6		mm/s
Design			N				Noi	se level	(1mete	er distar	nce fron	n motor	·)	51		dB(A)
Service factor			1.0				No	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulation class			F				Sta	rting me	ethod					DOL		
Ambient temperature			-20 to +4	40		°C	Тур	e of cou	upling					Direct		
Temperature rise (by re	sistance)) 8	80 [Class	B]		К	LR	withstar	nd time	(hot/co	ld)			15/30		S
Altitude above sea level	I		1000			meter	Dir	ection o	f rotatio	on			В	i-directional		
Hazardous area classific	ation		NA				Sta	ndard r	otation				Cloc	kwise form D	E	
Zone classification	on		NA				Pai	nt shade	e					RAL 5014		
Gas group			NA				Acc	essorie	S							
Temperature cla	ass		NA					Acc	essory -	1				PTC 150°C		
Rotor type		Alur	minum D	ie cast				Acc	essory -	2				-		
Bearing type		An	ti-frictio	n ball				Acc	essory -	3				-		
DE / NDE bearing		6205	5-2Z / 6	205-2Z			Ter	minal b	ox posit	ion				RHS		
Lubrication method		Gr	eased fo	r life			Ma	ximum	cable siz	ze/cond	uit size	1R	x 3C x 1	L0mm²/2 x M	20 x 1.5	
Type of grease			NA				Aux	kiliary 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.

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

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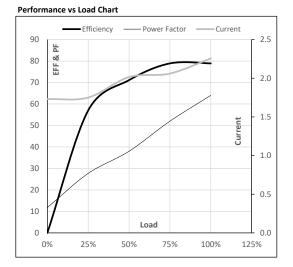


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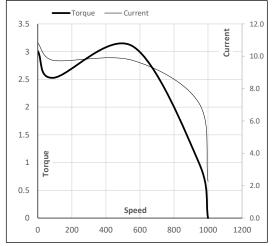
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	0.75	1.0	2.3	946	0.77	7.53	IE3	40	S1	1000	0.0036	24

Motor Load D	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.7	1.8	2.0	2.1	2.3	
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	



Ctarting	Characteristics	Chart
Starting	Characteristics	Chart



Motor Speed Torque Data												
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	91	556	946	1000						
Current	А	10.8	9.7	7.1	2.3	1.7						
Torque	pu	3.0	2.5	3.1	1	0						

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

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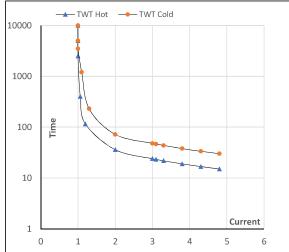
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	0.75	1.0	2.3	946	0.77	7.53	IE3	40	S1	1000	0.0036	24

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	l 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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