PRODUCT INFORMATION PACKET

Model No: TCA1P12AF111GAC010 Catalog No: TCA1P12AF111GAC010 TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 50 Hz, 380 V, 1500 RPM, 90S Frame, TEFC



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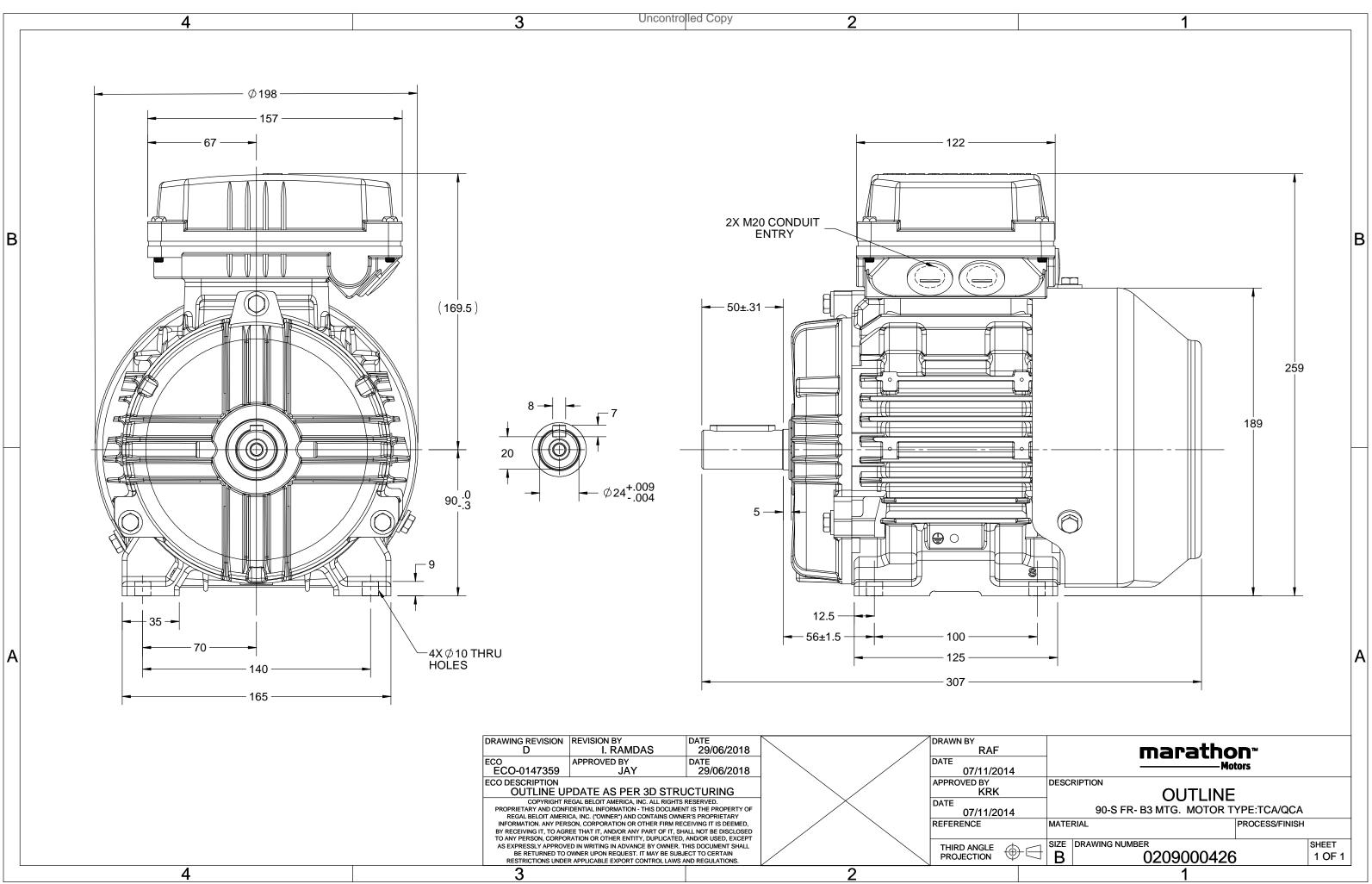
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW		
Frequency	50 Hz	Voltage	380 V		
Current	2.6 A	Speed	1450 rpm		
Service Factor	1	Phase	3		
Efficiency	84.1 %	Power Factor	0.77		
Duty	S1	Insulation Class	F		
			Totally Enclosed Fan Cooled		
Frame	90S	Enclosure	Totally Enclosed Fan Cooled		
Frame Thermal Protection	90S 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	4	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	Тор		
Outline Drawing	0209000426	Connection Drawing	8442000085

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$U = \Delta / Y = f$	Р	Р	I	n	Т	IE		% EFF a	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	1.1	1.5 2	2.58	1450	7.36	IE3	-	84.1	84.1	79.1	0.77	0.67	0.52	6.8	2.9	3.4
Motor type			TCA				Do	aroo of	protecti	00				IP 55		
Enclosure			TEFC							011				IM B3		
Frame Material		C	Cast Iro	n			Mounting type Cooling method							IC 411		
Frame size			90S	••				Cooling method Motor weight - approx.						25		kg
Duty			S1						ht - app					26		kg
Voltage variation *			± 10%					tor iner		107.				0.0045		kgm ²
Frequency variation *			± 5%					Load inertia						omer to Pro	vide	Kgill
Combined variation *			10%					Vibration level					cust	1.6	, inde	mm/s
Design			N							er distar	nce fron	n motor)	54		dB(A)
Service factor			1.0										/	2/3/4		ub(//)
Insulation class			F					No. of starts hot/cold/Equally spread Starting method					DOL			
Ambient temperature		-2	20 to +4	10		°C		be of co					Direct			
Temperature rise (by re	sistance)	80	[Class	B1		к			nd time	(hot/co	ld)			15/30		s
Altitude above sea level			1000			meter			of rotatio	· ·	,		В	i-directiona	d.	0
Hazardous area classific	ation		NA				Sta	ndard r	otation				Cloc	kwise form	DE	
Zone classificatio	on		NA				Pai	nt shad	e					RAL 5014		
Gas group			NA				Acc	cessorie	S							
Temperature cla	ass		NA					Acc	cessory -	1				PTC 150°C		
Rotor type		Alumi	num D	ie cast				Accessory - 2						-		
Bearing type		Anti-	-frictior	n ball				Acc	essory -	3				-		
DE / NDE bearing		6205-2	2Z / 6	205-2Z			Ter	minal b	, ox posit	ion				TOP		
Lubrication method		Grea	ased for	r life					cable si		uit size	1R	x 3C x 1	L0mm²/2 x	M20 x 1.5	
Type of grease			NA						erminal					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. India Aus/Nz Brazil Efficie Chi E

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

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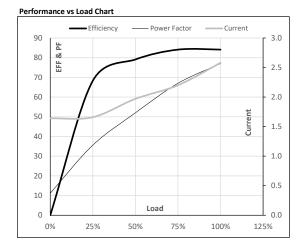


Model No. TCA1P12AF111GAC010

				Р	Р	1	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	1.1	1.5	2.6	1450	0.75	7.36	IE3	40	S1	1000	0.0045	24
TEFC	380	Y	50	1.1	1.5	2.6	1450	0.75	7.36	IE3	40	S1	1000		0.0045

Motor Load Data

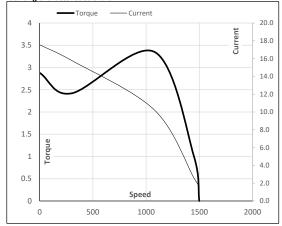
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.6	1.7	2.0	2.2	2.6	
Torque	Nm	0.0	1.8	3.6	5.5	7.4	
Speed	r/min	1500	1487	1476	1464	1450	
Efficiency	%	0.0	68.3	79.1	84.1	84.1	
Power Factor	er Factor %		35.6	52.0	67.0	77.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1079	1450	1500	
Current	А	17.5	15.8	10.2	2.6	1.6	
Torque	ри	2.9	2.4	3.4	1	0	

Starting Characteristics Chart



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

NOTE

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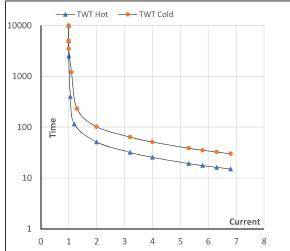
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Enclosure	U	Δ/Υ	f	Р	Р	Ι	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	380	Y	50	1.1	1.5	2.6	1450	0.75	7.36	IE3	40	S1	1000	0.0045	24

Motor Speed Torque Data Load FI 4 h Ь

Load		FL	I_1	I ₂	l ₃	I_4	l ₅	LR
TWT Hot	s	10000	51	34	26	22	18	15
TWT Cold	s	10000	102	66	51	42	37	30
Current	pu	1	2	3	4	5	5.5	6.8

Thermal Characteristics Chart



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

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