PRODUCT INFORMATION PACKET

Model No: TCA0114A1113GAC010 Catalog No: TCA0114A1113GAC010 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 180L Frame, TEFC



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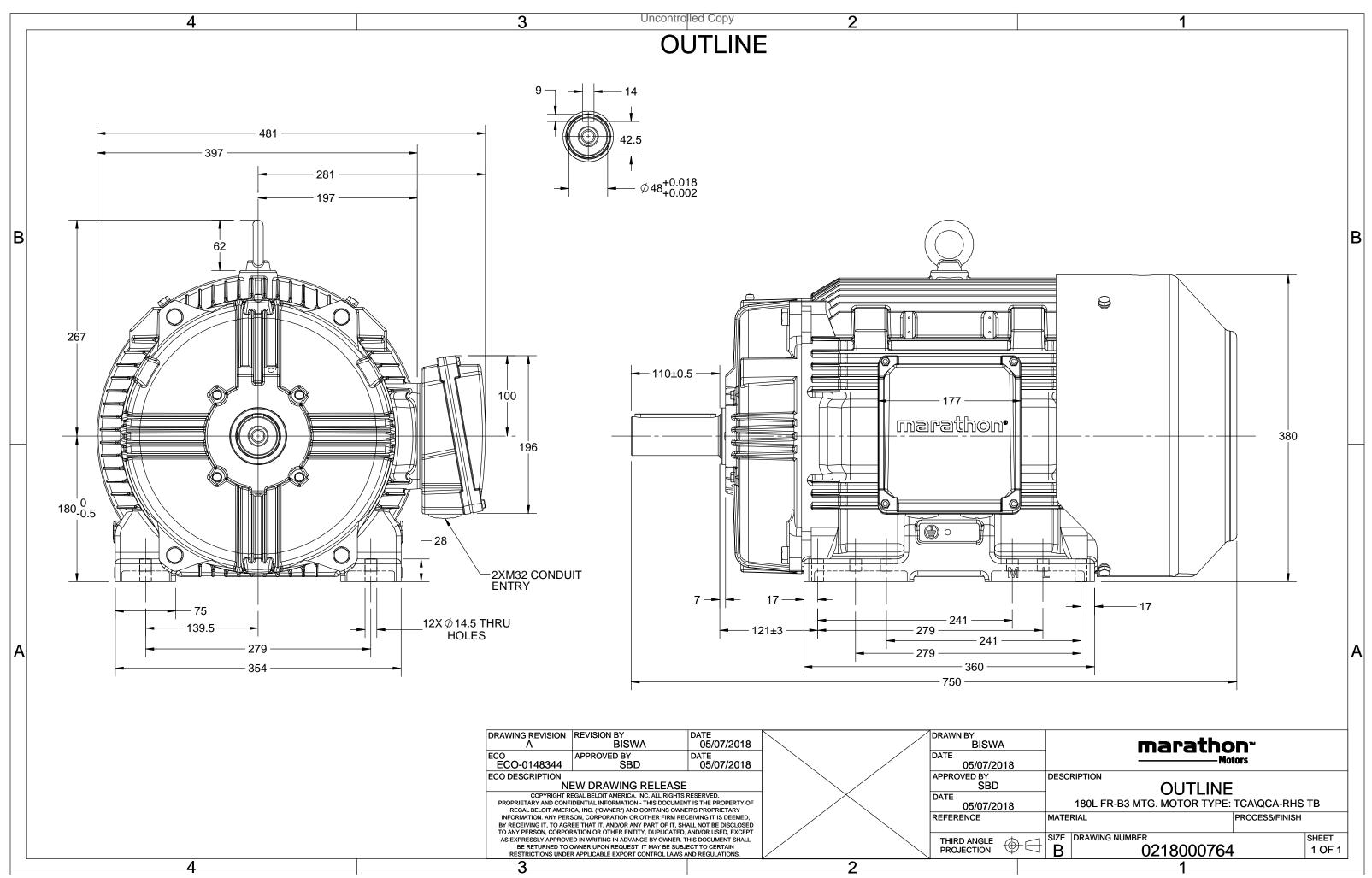
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	24.6 A	Speed	730 rpm
Service Factor	1	Phase	3
Efficiency	88.6 %	Power Factor	0.73
Duty	S1	Insulation Class	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
UL	No	CSA	Νο
CE	Yes	IP Code	55
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	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	750 mm	Frame Length	366 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	R Side		
Outline Drawing	0218000764	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t loa	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	Δ	50	11	15	24.5	730	146.51	IE3	-	88.6	88.6	89.5	0.73	0.66	0.53	6.5	1.8	3
Motor	tvne				ТСА				Der	ree of	protecti	on				IP 55		
Enclosu					TEFC					ounting		011				IM B3		
	Materia	1			Cast Irc	on				oling me						IC 411		
Frame	size	-			180L					•	ght - ap	prox.				229		kg
Duty					S1						ht - app					249		kg
,	e variatio	on *			± 10%					Motor inertia						0.3337		
	ncy varia				± 5%				Loa	id inerti	а				Customer to Provide			kgm ²
Combir	ned varia	ation *			10%	10%			Vib	Vibration level						2.2		mm/s
Design					Ν	N			No	Noise level (1meter distance from motor					.)	60		dB(A)
Service	factor				1.0				No	No. of starts hot/cold/Equally spread					2/3/4			
Insulati	ion class				F					Starting method					DOL			
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling				Direct			
Tempe	rature ri	ise (by i	resistanc	e)	80 [Class	5 B]		К	LR	LR withstand time (hot/cold)						15/30		
Altitud	e above	sea lev	el		1000			meter	Dir	ection c	of rotation	on			В	i-directional		
Hazard	ous area	a classif	fication		NA				Sta	ndard r	otation				Cloc	kwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shad	е					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	rature o	class		NA					Aco	essory	- 1				PTC 150°C		
Rotor t	уре			Alu	ıminum d	ie cast				Aco	essory -	- 2			-			
Bearing	g type			A	nti-frictio	n ball				Aco	essory	- 3				-		
DE / NI	DE beari	ng		631	11-2Z / 6	211-2Z			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	reased fo	or life			Ma	ximum	cable si	ze/cond	luit size	1R	x 3C x 3	35mm²/2 X N	//32 x 1.5	
Type of	f 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. Aus/Nz Brazil Global IEC India Efficiency Europe China

Linclency	Luiope	China				GIODAITIEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30





30.0

25.0

20.0

15.0

Current

Model No. TCA0114A1113GAC010

Enclosure	U	Δ / Y	f	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	400	Δ	50	11	15.0	24.5	730	14.94	146.51	IE3	40	S1	1000	0.3337	229

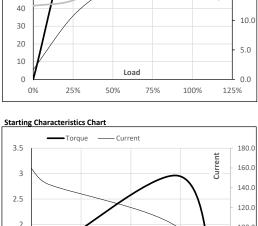
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	12.5	13.4	17.2	20.3	24.5	
Torque	Nm	0.0	35.9	72.2	109.1	146.5	
Speed	r/min	750	745	741	736	730	
Efficiency	%	0.0	84.4	89.5	88.6	88.6	
Power Factor	%	5.5	35.8	53.0	66.0	73.0	

Efficiency — Power Factor — Current 100 EFF & PF 90 80 70

Performance vs Load Chart

60

50



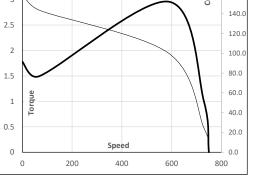
Motor Spee	d Torque Dat	а					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	68	588	730	750	
Current	А	159.6	143.6	100.1	24.5	12.5	

3.0

1

0

1.5



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

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Torque

pu

1.8

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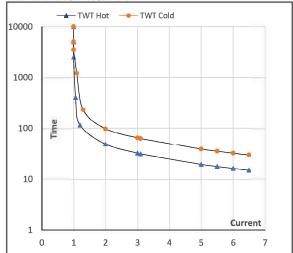
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15.0	24.5	730	14.94	146.51	IE3	40	S1	1000	0.3337	229

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	1 ₅	LR
TWT Hot	s	10000	49	33	24	20	18	15
TWT Cold	s	10000	98	65	57	39	36	30
Current	pu	1	2	3	4	5	5.5	6.5

Thermal Characteristics Chart



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

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