PRODUCT INFORMATION PACKET

Model No: TCA0112A1111GAC010 Catalog No: TCA0112A1111GAC010 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 160M Frame, TEFC



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Motors

Product Information Packet: Model No: TCA0112A1111GAC010, Catalog No:TCA0112A1111GAC010 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 160M Frame, TEFC

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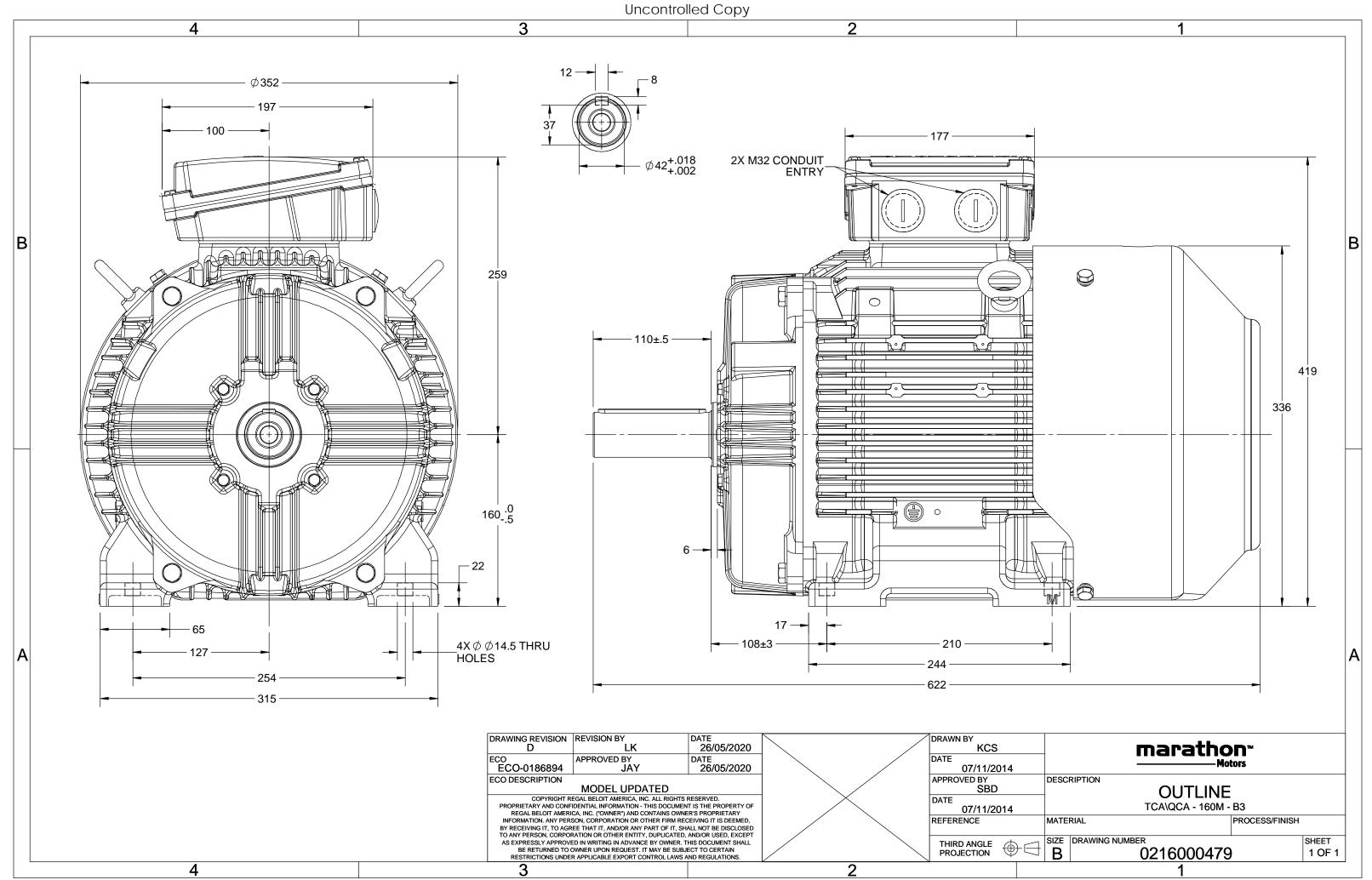
Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 KW		
Frequency	50 Hz	Voltage	400 V		
Current	20.7 A	Speed	1475 rpm		
Service Factor	1	Phase	3		
Efficiency	91.4 %	Power Factor	0.84		
Duty	S1	Insulation Class	F		
Frame	160M	Enclosure	Totally Enclosed Fan Cooled		
			-		
Thermal Protection	No Protection	Ambient Temperature	40 °C		
	No Protection 6309	Ambient Temperature Opp Drive End Bearing Size			
Thermal Protection		-	40 °C		
Thermal Protection Drive End Bearing Size	6309	Opp Drive End Bearing Size	40 °C 6209		

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	622 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000479

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Model No. TCA0112A1111GAC010

$U \Delta / Y f$	f	Р	Р	Ι	n	Т	IE	9	% EFF at	:load	ł	PF	at lo	ad	I _A /I _N	T_A/T_N	$T_{\rm K}/T_{\rm N}$
(V) Conn [H	lz] [[kW] [ł	hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400 Δ 5	50	11 1	15	20.7	1475	72.41	IE3	-	91.4	91.4	90.6	0.84	0.78	0.66	7.3	2.5	3.3
Motor type				TCA						protection	on				IP 55		
Enclosure				TEFC					unting						IM B3		
Frame Material				Cast Iro					oling me						IC 411		
Frame size				160M						ght - app					147		kg
Duty				S1				Gro	oss weig	ht - app	rox.				167		kg kgm ²
Voltage variation *				± 10%					Motor inertia						0.1200		
Frequency variatio	n *			± 5%					Load inertia					Customer to Provide			
Combined variation	n *			10%				Vibration level							2.2		mm/s
Design				N				Noi	Noise level (1meter distance from motor)					,		dB(A)	
Service factor				1.0				No.	No. of starts hot/cold/Equally spread					2/3/4			
Insulation class				F				Sta	Starting method					DOL			
Ambient temperat	ture			-20 to +	40		°C	Тур	Type of coupling					Direct			
Temperature rise ((by res	sistance)	8	0 [Class	B]		К	LR ۱	LR withstand time (hot/cold)					10/20			s
Altitude above sea	level			1000			meter	Dire	Direction of rotation					В	i-directional		
Hazardous area cla	assifica	ation		NA				Sta	Standard rotation					Cloc	kwise form	DE	
Zone classi	ficatio	n		NA				Pai	nt shade	5					RAL 5014		
Gas group				NA				Acc	essorie	5							
Temperatu	ire clas	ss		NA					Acc	essory -	1				PTC 150°C		
Rotor type			Aluminum Die cast					Accessory - 2						-			
Bearing type			Anti-friction ball					Accessory - 3					-				
DE / NDE bearing			6309	-2Z / 6	209-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrication metho	d		Gre	eased fo	r life			Ma	•					1R x 3C x 35mm²/2 X M32 x 1.5			
Type of grease				NA				Aux	diliary te	erminal l	оох				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 Global IEC Efficiency Europe China GB 18613-2012 Grade 2 -IEC: 60034-30 Standards --_

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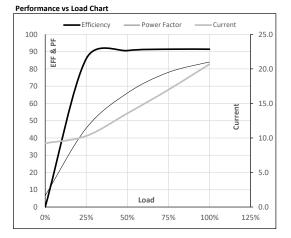


Model No. TCA0112A1111GAC010

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	400	Δ	50	11	15.0	20.7	1475	7.38	72.41	IE3	40	S1	1000	0.12	147

Motor Load Data

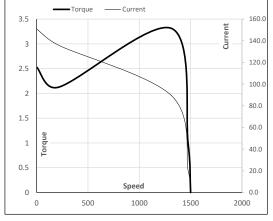
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	9.2	10.3	13.6	17.0	20.7	
Torque	Nm	0.0	17.9	35.9	54.1	72.4	
Speed	r/min	1500	1494	1488	1482	1475	
Efficiency	%	0.0	85.9	90.6	91.4	91.4	
Power Factor	%	6.6	45.7	66.0	78.0	84.0	
Towerractor	70	0.0	45.7	00.0	70.0	04.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1315	1475	1500	
Current	А	151.0	135.9	89.2	20.7	9.2	
Torque	pu	2.5	2.1	3.3	1	0	

Starting Characteristics Chart



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

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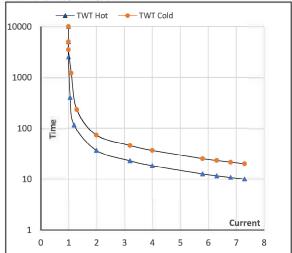
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
-	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15.0	20.7	1475	7.38	72.41	IE3	40	S1	1000	0.12	147

Motor Speed Torque Data

Load		FL	I_1	I_2	l ₃	I_4	1 ₅	LR
TWT Hot	s	10000	37	26	19	16	13	10
TWT Cold	s	10000	73	49	37	34	27	20
Current	pu	1	2	3	4	5	5.5	7.3

Thermal Characteristics Chart



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

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