PRODUCT INFORMATION PACKET

Model No: TCA0112A1121GAC010 Catalog No: TCA0112A1121GAC010 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 160M Frame, TEFC



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Product Information Packet: Model No: TCA0112A1121GAC010, Catalog No:TCA0112A1121GAC010 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 160M Frame, TEFC

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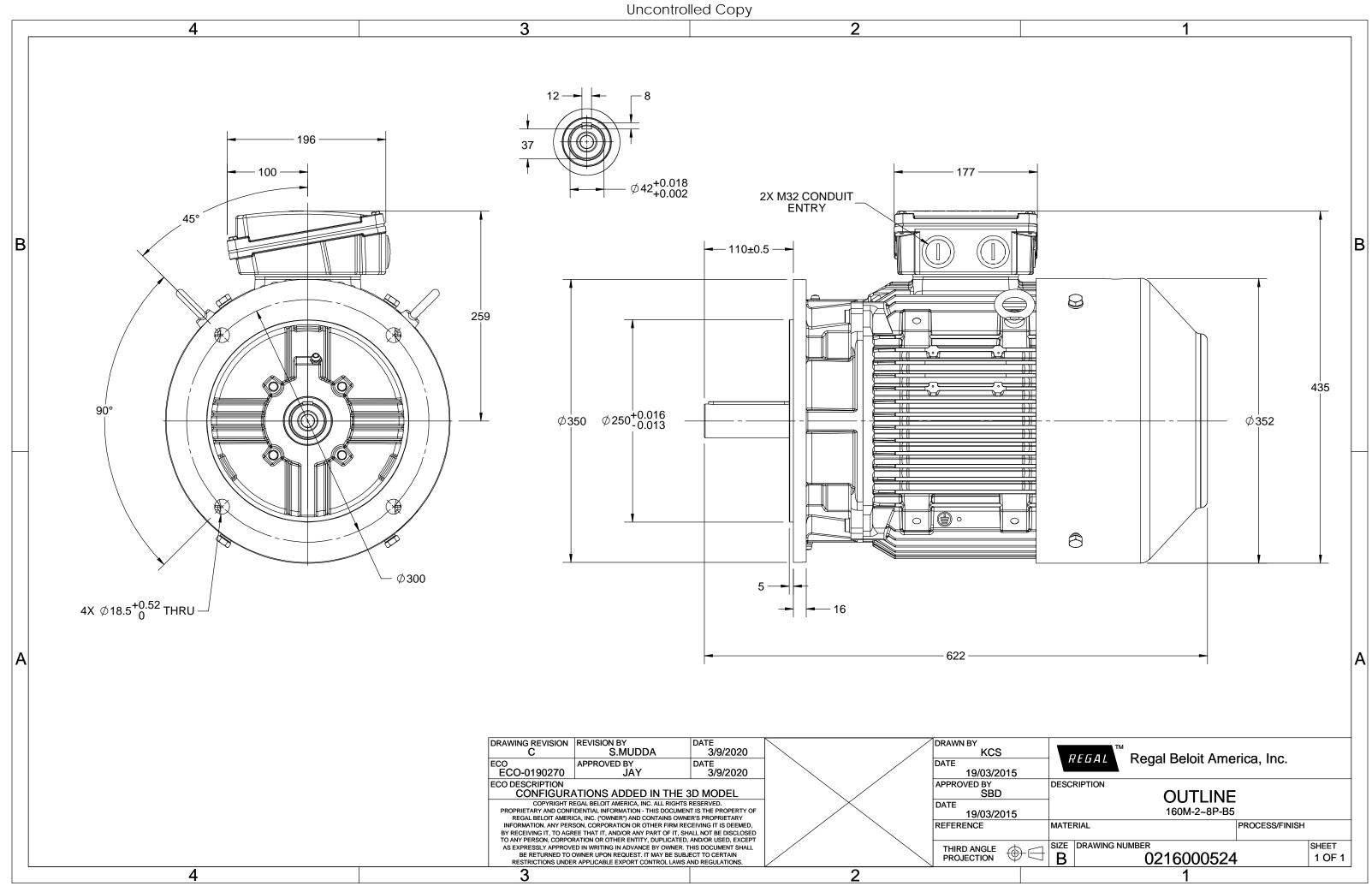
Nameplate Specifications

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	B5	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		
Outline Drawing	0216000524	Connection Drawing	8442000085

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$U = \Delta / Y$	f	Р	Р	Ι	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]
400 Δ	50	11	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 B5		
Frame Material				Cast Iro					oling me						IC 411		
Frame size				160M						ght - app					153		kg
Duty				S1				Gro	Gross weight - approx.						173		kg
Voltage variation	۱*			± 10%				Motor inertia					0.1200			kgm ²	
Frequency variat	tion *			± 5%				Loa	Load inertia					Customer to Provide			
Combined variat	ion *			10%				Vib	Vibration level						2.2		mm/s
Design				Ν				Noi	Noise level (1meter distance from mo				n motor)	64		dB(A)
Service factor				1.0				No	of star	ts hot/co	old/Equ	ally spr	ead	2/3/4			
Insulation class				F				Sta	rting m	ethod					DOL		
Ambient temper	ature			-20 to +4	40		°C	Тур	e of co	upling					Direct		
Temperature rise	e (by r	esistance)	80 [Class	B]		K	LR	LR withstand time (hot/cold)					10/20			S
Altitude above se	ea leve	el		1000			meter	Dir	ection c	f rotatio	on			В	i-directional	l	
Hazardous area o	classifi	cation		NA				Sta	ndard r	otation				Cloc	kwise form	DE	
Zone clas	sificat	ion		NA				Pai	nt shad	е					RAL 5014		
Gas grou	р			NA				Acc	essorie	S							
Tempera	ture c	lass		NA					Acc	essory -	1				PTC 150°C		
Rotor type			Alu	ıminum Die cast				Acc	essory -	2				-			
Bearing type			A	nti-frictio	n ball				Acc	essory -	3				-		
DE / NDE bearing	g		630	9-2Z / 6	209-2Z			Ter	minal b	ox posit	ion				TOP		
Lubrication meth	•		G	reased fo	r life					cable siz		uit size	1R	x 3C x 3	35mm²/2 X I	VI32 x 1.5	
Type of grease				NA						erminal l					NA		
5																	

 $I_{\text{A}}/I_{\text{N}}$ - 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 --_



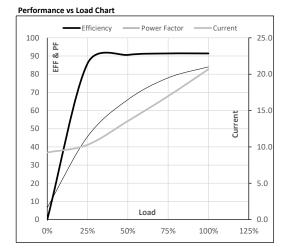


Model No. TCA0112A1121GAC010

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	400	Δ	50	11	15.0	20.7	1475	7.38	72.41	IE3	40	S1	1000	0.12	153

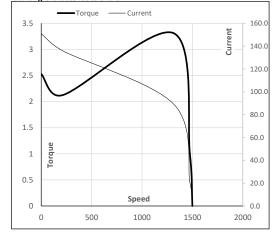
Motor Load Data

NOLOF LOAD Da	ald						
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	



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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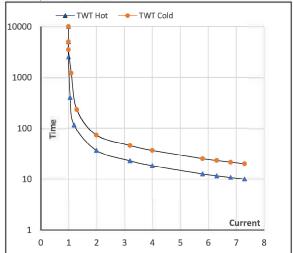
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15.0	20.7	1475	7.38	72.41	IE3	40	S1	1000	0.12	153

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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