PRODUCT INFORMATION PACKET

Model No: TCA0112A1133GAC010 Catalog No: TCA0112A1133GAC010 TerraMAX® Cast Iron Motor, 15 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 160M Frame, TEFC



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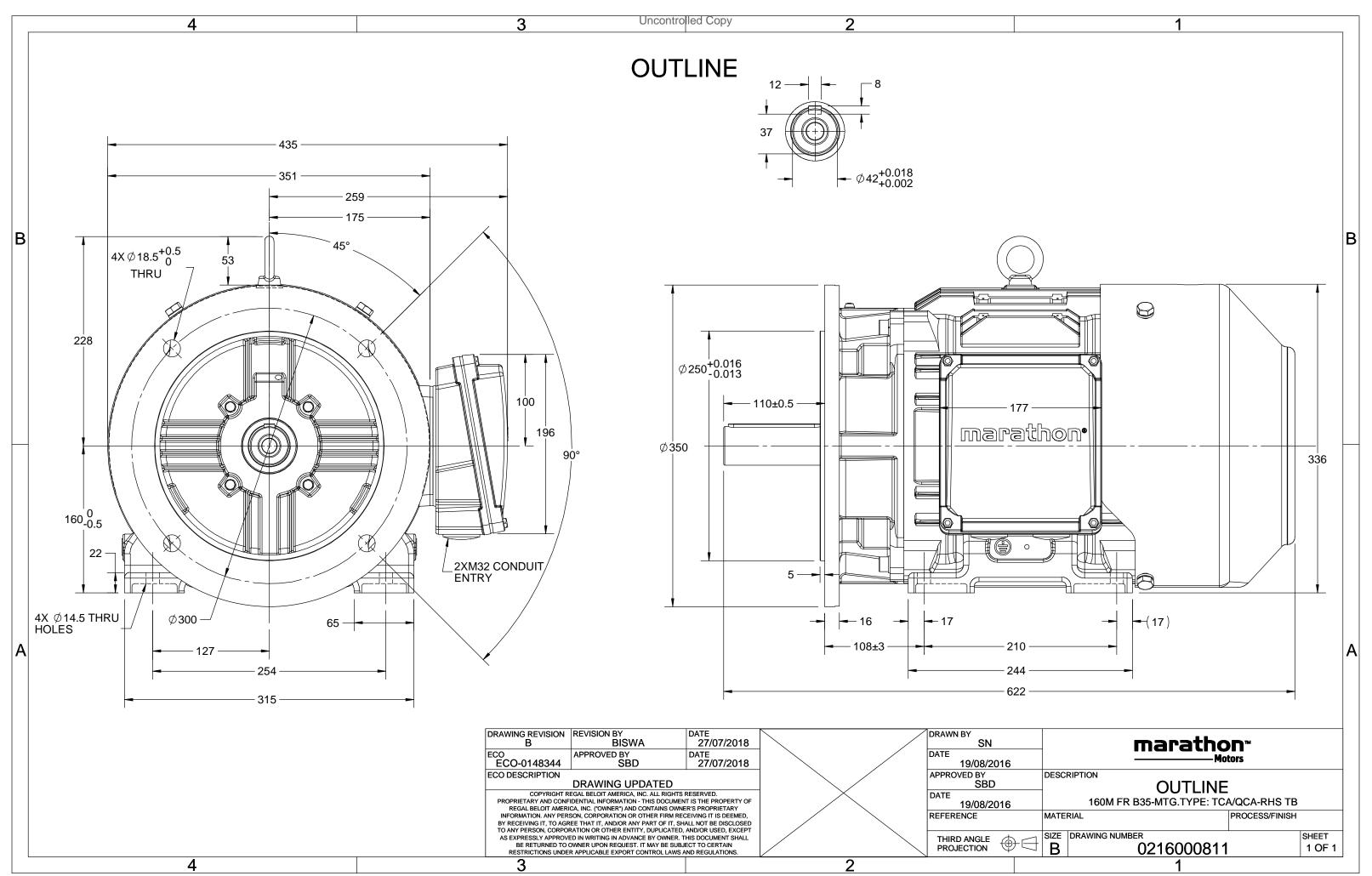
Nameplate Specifications

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		
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209		
UL	No	CSA	No		
CE	No Yes	IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Bi-Directional
Mounting	B35	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	R Side		
Outline Drawing	0216000811	Connection Drawing	8442000085

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TerraMAX[®]

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U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF a	t load	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	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	<i>'</i> '				TCA						protecti	on				IP 55		
Enclosu	ire				TEFC					ounting						IM B35		
Frame	Materia				Cast Irc				Coo	oling me	ethod					IC 411		
Frame	size				160M				Mo	otor wei	ght - ap	prox.				154		kg
Duty					S1				Gro	Gross weight - approx.						174		kg
Voltage	e variatio	on *			± 10%				Mc	Motor inertia					0.1200			kgm ²
Freque	ncy varia	ation *			± 5%				Loa	ad inerti	а				Custo	omer to Provi	de	
Combir	ned varia	ation *			10%				Vib	Vibration level						2.2		mm/s
Design					Ν				No	ise leve	(1mete	er distar	nce fror	n motor)	64		dB(A)
Service	factor				1.0				No	No. of starts hot/cold/Equally spread					2/3/4			
Insulati	on class				F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	be of co	upling				Direct			
Tempe	rature ri	se (by i	resistanc	e)	80 [Class	5 B]		К	LR	withsta	nd time	(hot/co	ld)			10/20		S
Altitude	e above	sea lev	el		1000			meter	Dir	ection c	of rotatio	on			В	i-directional		
Hazard	ous area	a classif	ication		NA				Sta	ndard r	otation				Cloc	ckwise form D	Ε	
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014		
	Gas gro	up			NA				Acc	cessorie	s							
	Temper	ature o	class		NA					Aco	essory -	1				PTC 150°C		
Rotor t	уре			Alu	uminum D	ie cast				Aco	essory -	2				-		
Bearing	g type			A	nti-frictio	n ball				Aco	essory -	3				-		
DE / NE	DE beari	ng		630)9-2Z / e	5209-2Z			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod		G	ireased fo	r life			Ma	iximum	cable siz	ze/cond	uit size	1R	x 3C x 3	35mm²/2 X M	32 x 1.5	
Type of	grease				NA				Aux	xiliary 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 India Global IEC Efficiency Europe China GB 18613-2012 Grade 2 -IEC: 60034-30 Standards --_





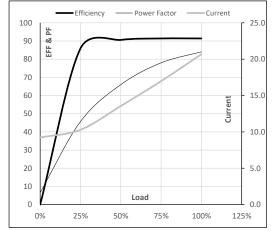
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Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15.0	20.7	1475	7.38	72.41	IE3	40	S1	1000	0.12	154

Motor Load Data

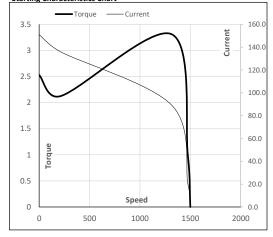
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	9.2	10.3	13.6	17.0	20.7	
Torque	Nm	0.0	17.9	35.9	54.1	72.4	
Speed	r/min	1500	1494	1488	1482	1475	
Efficiency	%	0.0	85.9	90.6	91.4	91.4	
Power Factor	%	6.6	45.7	66.0	78.0	84.0	

Performance vs Load Chart



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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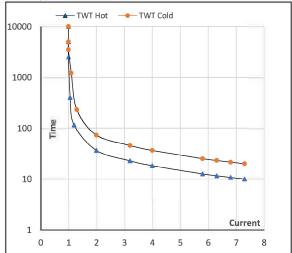
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	11	15.0	20.7	1475	7.38	72.41	IE3	40	S1	1000	0.12	154

Motor Speed Torque Data

Load	-	FL	I_1	l ₂	l ₃	I_4	I 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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