# **PRODUCT INFORMATION PACKET**

Model No: TCE0113A2111GAA001 Catalog No: TCE0113A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 15 HP, 3 Ph, 50 Hz, 400 V, 980 RPM, 160L Frame



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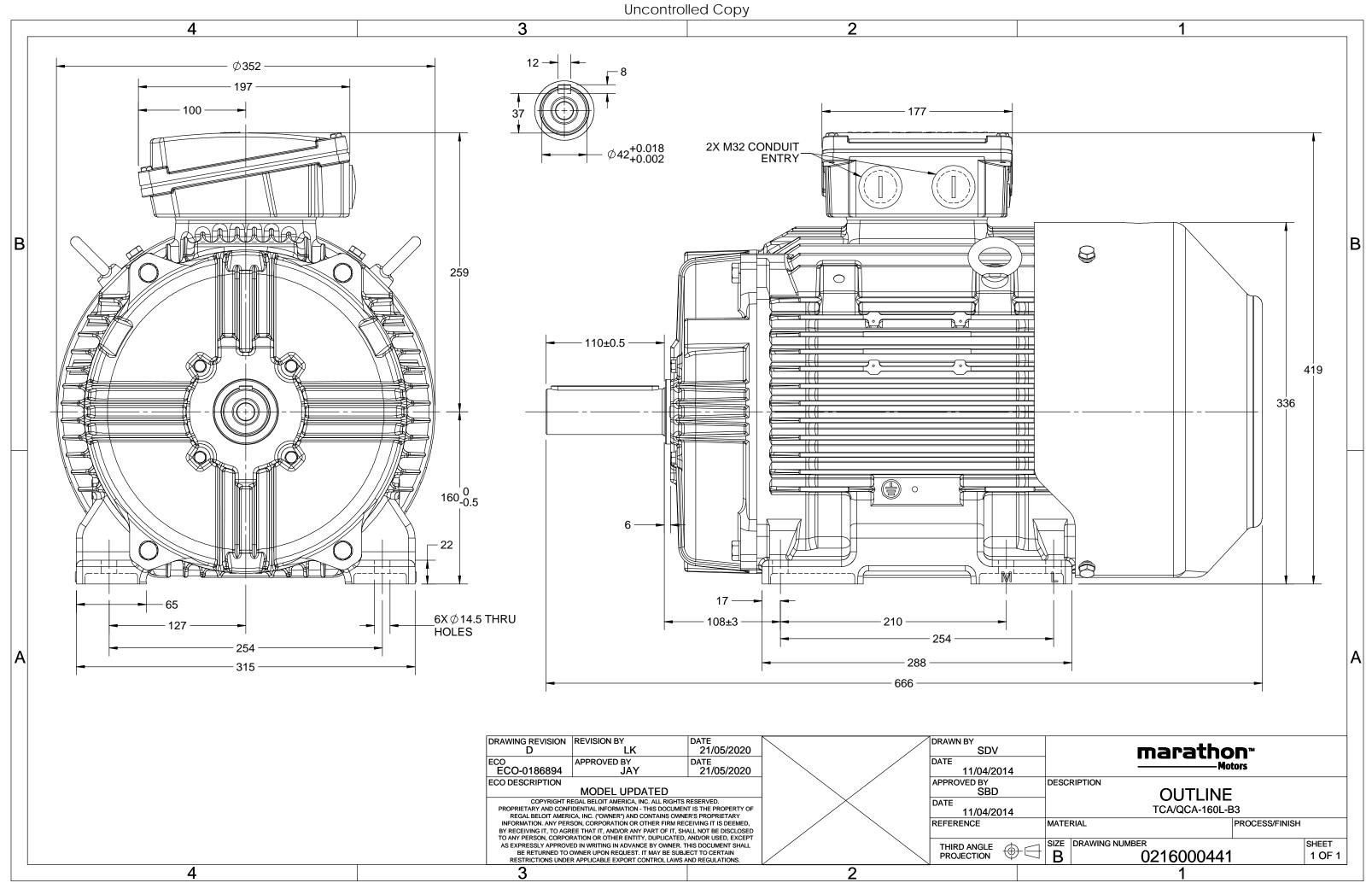
### Nameplate Specifications

Output HP	15 Hp	Output KW	11.0 kW
Frequency	50 Hz	Voltage	400 V
Current	22.2 A	Speed	980 rpm
Service Factor	1	Phase	3
Efficiency	90.3 %	Power Factor	0.8
Duty	S1	Insulation Class	F
Frame	160L	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	Yes	IP Code	IP55
Number of Speeds	3		

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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	666 mm	Frame Length	298 mm
Shaft Diameter	42.000 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0216000441

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### Model No. TCE0113A2111GAA001

U	$\Delta / Y$	f	Р	Р	Ι	n	Т	IE	ģ	% EFF a	t loa	d	PF	at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	T <sub>K</sub> /T <sub>N</sub>
(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	15.0	22.2	980	109.05	IE3	-	90.3	90.3	90.2	0.79	0.73	0.60	6.2	2.2	2.8
Motor	type				TCE				Deg	gree of	protect	ion				IP 55		
Enclosu	ıre				TEFC	:			Мо	unting	type					IM B3		
Frame	Materia	1			Cast Ir	on			Cod	oling m	ethod					IC 411		
Frame	size				160L				Мо	tor wei	ight - ap	prox.				178		kg
Duty					S1				Gro	ss weig	ght - app	orox.				198		kg
Voltage	e variatio	on *			± 10%	6			Мо	tor ine	rtia					0.2127		kgm <sup>2</sup>
Freque	ncy vari	ation *			± 5%				Loa	d inert	ia				Custo	omer to Prov	ide	
Combir	ned varia	ation *			10%				Vib	Vibration level						2.2		
Design					Ν				Noi	Noise level ( 1meter distance from mo				m moto	r)	) 61		
Service	factor				1.0				No.	of star	ts hot/c	cold/Equ	ially spi	read	2/3/4			
Insulati	ion class	5			F				Sta	rting m	ethod					DOL		
Ambier	nt tempe	erature			-15 to +	-40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	ise (by	resistan	ce)	70 [ Clas	s B ]		К	tE t	ime						20		5
Altitud	e above	sea lev	el		1000	)		meter	Dire	ection o	of rotati	on			В	i-directional		
Hazard	ous area	a classi	fication		Ex eb	)			Sta	ndard r	otation				Cloc	ckwise form [	DE	
	Zone cla	assifica	tion		Zone	2			Pai	nt shad	e					RAL 7016		
	Gas gro	up			IIC				Acc	essorie	s							
	Temper	rature o	class		Т3					Aco	cessory	- 1				PTC 150°C		
Rotor t	уре			Alu	ıminum [	Die cast				Aco	cessory	- 2				-		
Bearing	g type			A	nti-frictio	on ball				Aco	cessory	- 3				-		
DE / NE	DE beari	ng		630	9-2Z /	6209-2Z			Ter	minal b	ox posi	tion				TOP		
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	132 x 1.5	
Type of	f grease				NA				Aux	ciliary to	erminal	box				NA		

 $I_A/I_N$  - Locked Rotor Current / Rated Current

 $T_{K}/T_{N}$  - Breakdown Torque / Rated Torque

 $T_{\text{A}}/T_{\text{N}}$  - Locked Rotor Torque / Rated Torque

#### NOTE

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-7

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

\* Voltage, Frequency and combined variation are as per IEC60034-1

Technical da	ata are subject to chan	ge. There may be slight	variations between calculated	I values in this datash	eet and the motor na	meplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC:60034-30-1		-	-	-	IEC:60034-30-1



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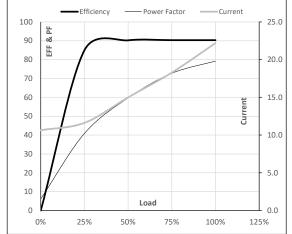
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Enclosure	U	$\Delta / Y$	f	Р	Р	1	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	11	15	22.2	980	11.12	109.05	IE3	40	S1	1000	0.2127	178

### Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	10.6	11.6	15.0	18.3	22.2	
Torque	Nm	0.0	36.4	73.1	110.3	109.0	
Speed	r/min	1000	995	990	985	980	
Efficiency	%	0.0	85.0	90.2	90.3	90.3	
Power Factor	%	6.2	40.9	59.7	72.7	79.2	

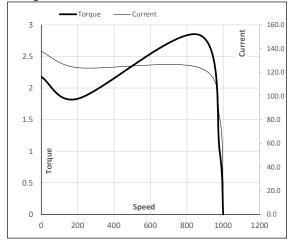
### Performance vs Load Chart



#### Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL			
Speed	r/min	0	200	869	980	1000			
Current	Α	137.6	123.9	81.4	22.2	10.6			
Torque	pu	2.2	1.8	2.8	1	0			

Starting Characteristics Chart



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

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