PRODUCT INFORMATION PACKET

Model No: TCE0041A2111GAA001 Catalog No: TCE0041A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 5.5 HP, 3 Ph, 50 Hz, 400 V, 2919 RPM, 112M Frame



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Motors

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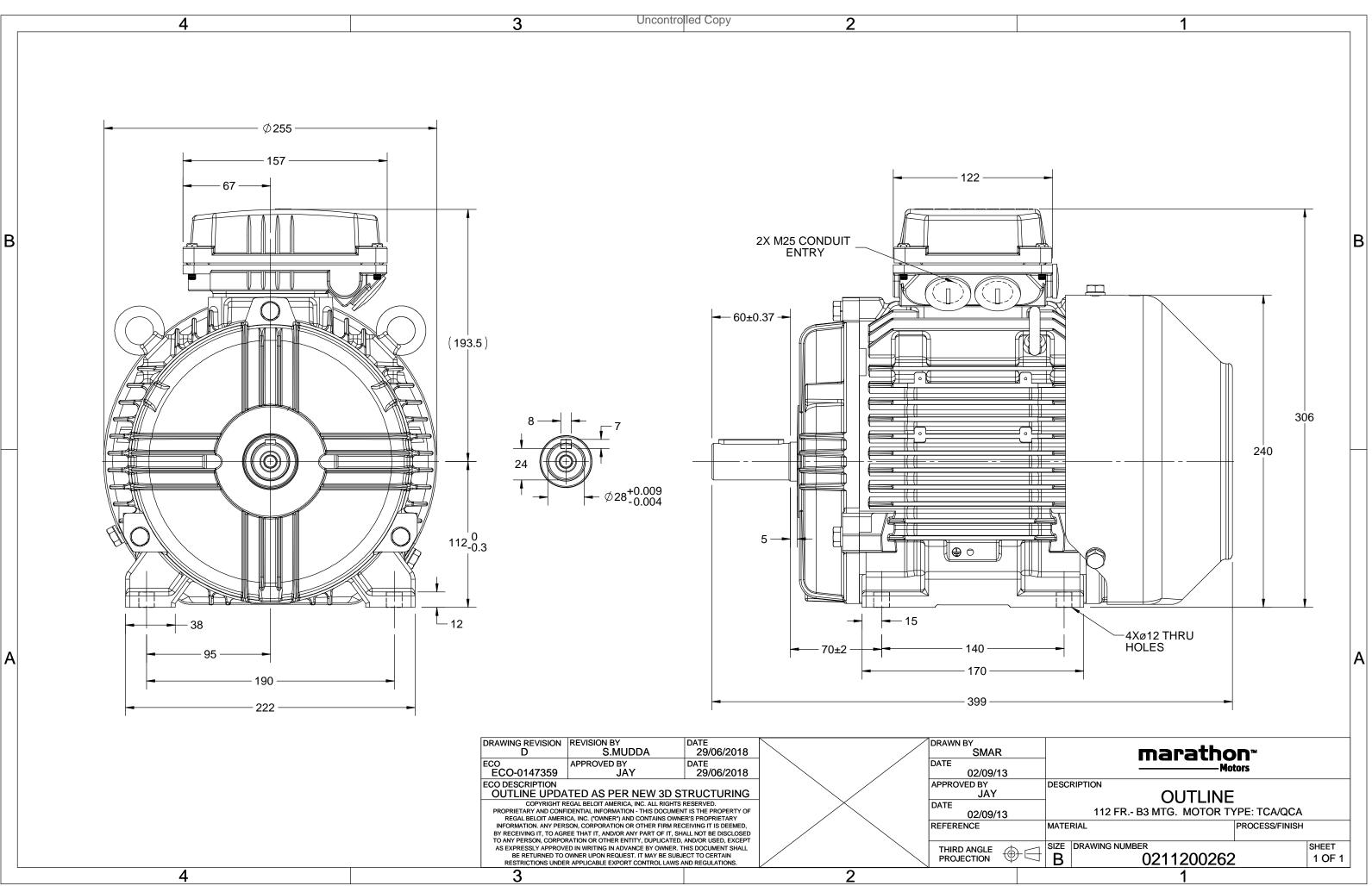
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	400 V
Current	7.4 A	Speed	2919 rpm
Service Factor	1	Phase	3
Efficiency	88.1 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206
UL	No	CSA	No
CE	Yes	IP Code	IP55

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	399 mm	Frame Length	174 mm
Shaft Diameter	28.000 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0211200262

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Model No. TCE0041A2111GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE			t loa			at lo		I _A /I _N	T_A/T_N	T _K ∕T _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	4	5.5	7.4	2919	13.42	IE3	-	88.1	88.1	89.1	0.89	0.85	0.74	8.5	2.9	4.1
					тог							•						
Motor					TCE						protect	ion				IP 55		
Enclos					TEF					unting						IM B3		
	Materia	al 👘			Cast Ir					ling me						IC 411		
Frame	size				112	Л					ght - ap					47		kg
Duty					S1				Gro	ss weig	ght - app	orox.				50		kg
Voltag	e variati	on *			± 10	%			Mo	tor iner	rtia					0.0096		kgm ²
Freque	ency vari	ation *			± 5%	, D			Loa	d inerti	а				Custo	omer to Prov	ride	
Combi	ned vari	ation *			10%	'n			Vib	ration l	evel					1.6		mm/s
Design	I				Ν				Noi	se level	l (1met	er dista	nce fro	m moto	r)	64		dB(A)
Service	e factor				1.0				No.	of star	ts hot/o	cold/Equ	ually spi	read		2/3/4		
Insulat	ion class	S			F				Sta	rting m	ethod					DOL		
Ambie	nt temp	erature	2		-15 to	+40		°C	Тур	e of co	upling					Direct		
Tempe	erature r	ise (by	resistan	ce)	70 [Clas	s B]		К	tE t	ime						10		S
Altituc	le above	sea lev	/el		100)		meter	Dire	ection c	of rotati	on			В	i-directional		
Hazaro	dous are	a classi	fication		Ex e	b			Sta	ndard r	otation				Cloc	kwise form I	DE	
	Zone cl	assifica	tion		Zone	2			Pair	nt shad	e					RAL 7016		
	Gas gro	bup			IIC				Acc	essorie	S							
	Tempe	rature	class		Т3					Acc	cessory	- 1				PTC 150°C		
Rotor	type			A	luminum	Die cast				Acc	cessory	- 2				-		
Bearin	g type				Anti-fricti	on ball				Acc	cessory	- 3				-		
DE / N	DE beari	ing		63	306-2Z /	6206-2Z			Ter	minal b	ox posi	tion				TOP		
Lubrica	ation me	ethod			Greased f	or life			Ma	kimum	cable si	ize/cond	luit size	e 1R	x 3C x 1	16mm²/2 x N	125 x 1.5	
Type o	of grease				NA						erminal					NA		

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\text{A}}/T_{\text{N}}$ - 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



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

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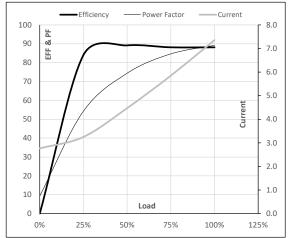
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Enclosure L	U	Δ / Y	f	Р	Р	I.	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(\	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 40	400	Δ	50	4	6	7.4	2919	1.37	13.42	IE3	40	S1	1000	0.0096	47

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.8	3.3	4.5	5.8	7.4	
Torque	Nm	0.0	4.4	9.0	13.5	13.4	
Speed	r/min	3000	2980	2961	2940	2919	
Efficiency	%	0.0	84.0	89.1	88.1	88.1	
Power Factor	%	9.3	54.3	74.4	84.6	89.1	

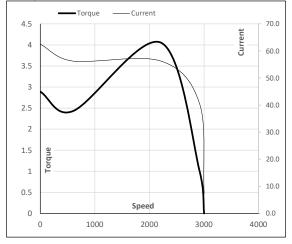
Performance vs Load Chart



Motor Speed Torque Data

motor opec	a loique Batt											
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	600	2213	2919	3000						
Current	А	62.5	56.3	40.5	7.4	2.8						
Torque	pu	2.9	2.4	4.1	1	0						

Starting Characteristics Chart



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

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