PRODUCT INFORMATION PACKET

Model No: TCE0042A2111GAA001 Catalog No: TCE0042A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 5.5 HP, 3 Ph, 50 Hz, 400 V, 1457 RPM, 112M Frame



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Motors

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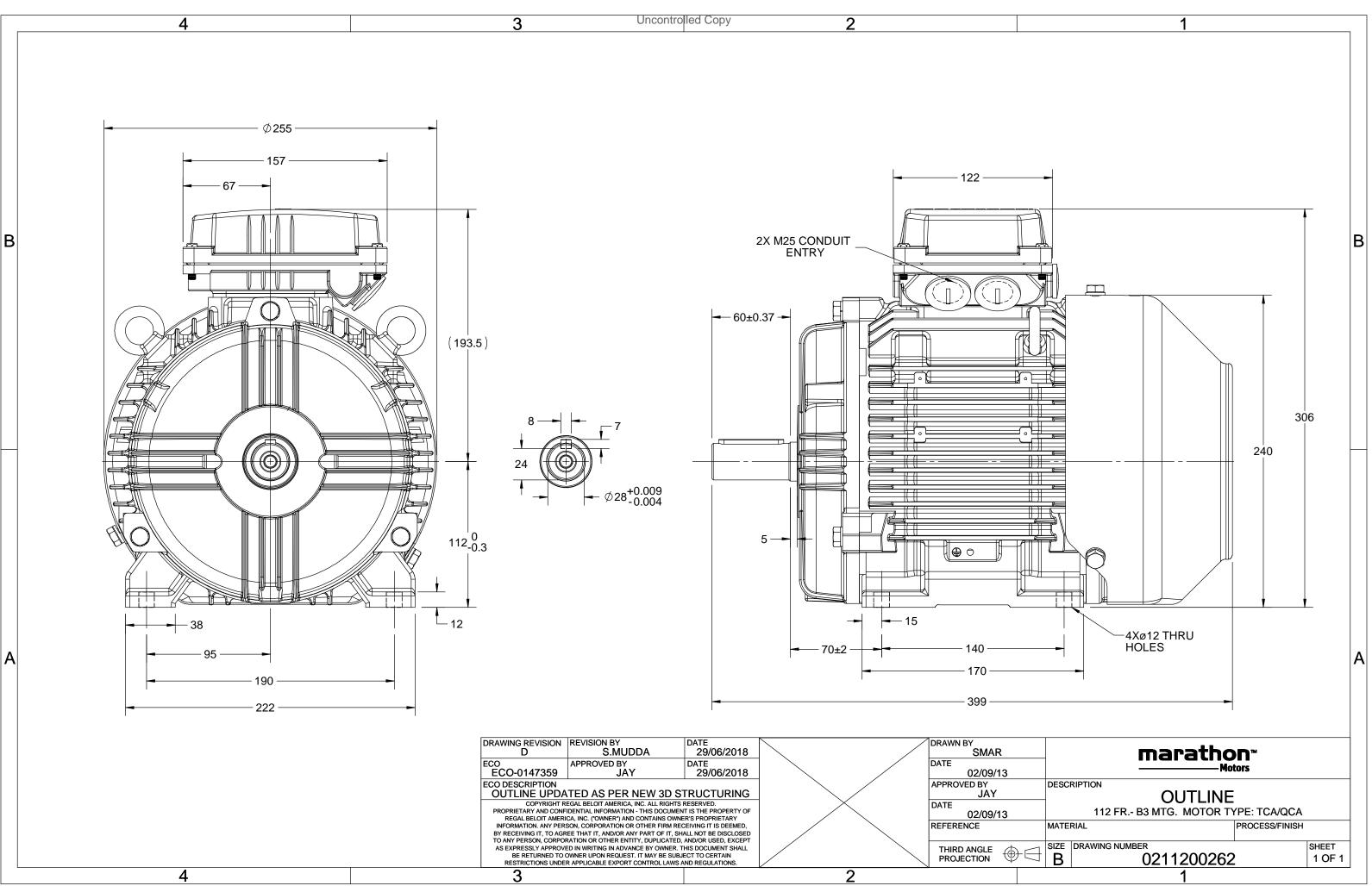
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	400 V
Current	7.9 A	Speed	1457 rpm
Service Factor	1	Phase	3
Efficiency	88.6 %	Power Factor	0.82
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	Νο
CE	Yes	IP Code	IP55
Number of Speeds	3		

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	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. TCE0042A2111GAA001

U	Δ / Y	f	Р	Р	Ι	n	Т	IE	9	6 EFF a	t load	d	PF	at lo	bad	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	7.9	1457	26.89	IE3	-	88.6	88.6	88.9	0.82	0.76	0.64	8.3	3.3	3.7
Motor	type				TCE				Deg	gree of	protecti	ion				IP 55		
Enclos	ure				TEFO	2			Мо	unting	type					IM B3		
Frame	Materia	I			Cast Ir	on			Coc	oling m	ethod					IC 411		
Frame	size				112	1			Мо	tor wei	ight - ap	prox.				55		kg
Duty				S1				Gro	Gross weight - approx.					58			kg	
Voltag	e variati	on *			± 109	6			Motor inertia							0.0192		kgm ²
Freque	ency vari	ation *			± 5%	,)			Loa	d inert	ia				Custo	omer to Prov	/ide	
Combi	ned varia	ation *			10%				Vib	ration l	evel					1.6		mm/s
Design					Ν				Noi	se leve	l (1met	er dista	nce fro	m moto	r)	58		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	old/Equ	ually spi	read		2/3/4		
Insulat	ion class	5			F				Sta	rting m	ethod					DOL		
Ambie	nt temp	erature	2		-15 to -	+40		°C	Тур	e of co	upling					Direct		
Tempe	rature r	ise (by	resistan	ce)	70 [Clas	s B]		К	tE t	ime						20		S
Altitud	e above	sea lev	/el		1000)		meter	Dire	ection o	of rotati	on			В	i-directional		
Hazarc	lous area	a classi	fication		Ex el	b			Sta	ndard r	otation				Cloc	ckwise form I	DE	
	Zone cla	assifica	tion		Zone	1			Pair	nt shad	e					RAL 7016		
	Gas gro	up			IIC				Acc	essorie	S							
	Temper	rature o	class		Т3					Ac	cessory	- 1				PTC 150°C		
Rotor t	суре			Al	uminum	Die cast				Ac	cessory	- 2				-		
Bearin	g type			A	nti-frictio	on ball				Ac	cessory	- 3				-		
DE / N	DE beari	ng		63	06-2Z /	6206-2Z			Ter	minal b	ox posi	tion				TOP		
Lubrica	ation me	thod		C	Greased f	or life			Ma	ximum	cable si	ze/cond	luit size	1R	x 3C x 1	16mm²/2 x N	125 x 1.5	
Туре о	f grease				NA				Aux	diliary t	erminal	box				NA		

 $\rm I_A/\rm I_N$ - 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	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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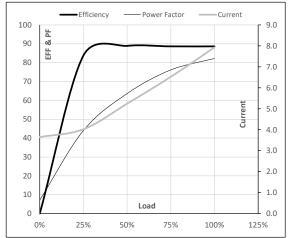
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	4	6	7.9	1457	2.74	26.89	IE3	40	S1	1000	0.0192	55
		_		-	-										-

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	3.7	4.0	5.2	6.5	7.9	
Torque	Nm	0.0	8.9	18.0	27.1	26.9	
Speed	r/min	1500	1490	1480	1469	1457	
Efficiency	%	0.0	83.8	88.9	88.6	88.6	
Power Factor	%	7.1	44.0	63.6	76.1	82.2	

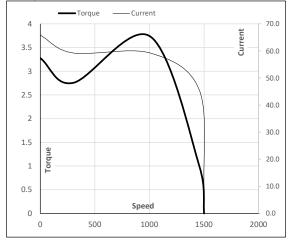
Performance vs Load Chart



Motor Speed Torque Data

motor opec	a loique Batt											
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	300	1005	1457	1500						
Current	А	65.8	59.2	45.5	7.9	3.7						
Torque	pu	3.3	2.8	3.7	1	0						

Starting Characteristics Chart



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

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