PRODUCT INFORMATION PACKET

Model No: TCE1P54A5111GAA001 Catalog No: TCE1P54A5111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 2 HP, 3 Ph, 50 Hz, 400 V, 715 RPM, 112M Frame



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Motors

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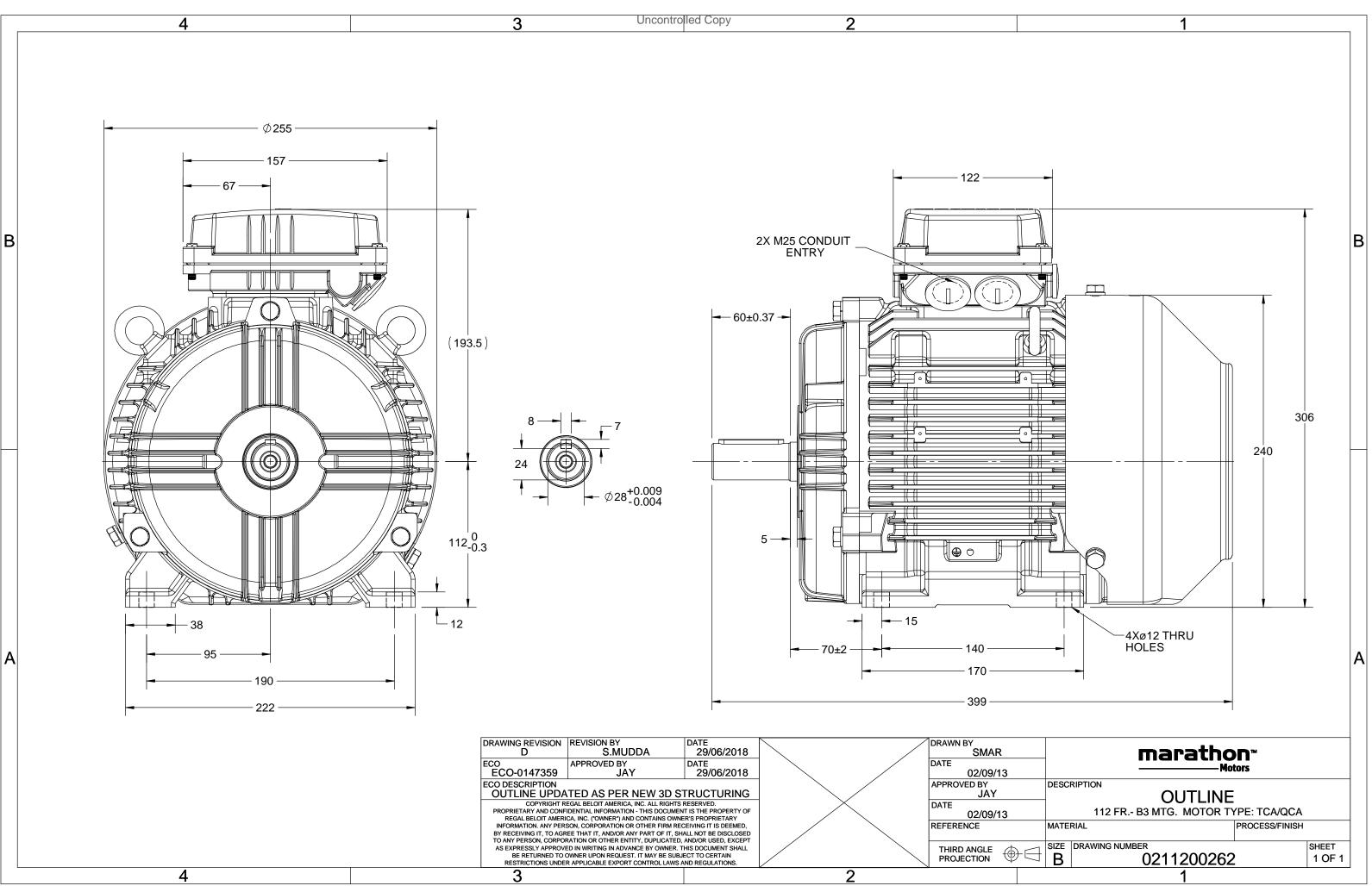
Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	50 Hz	Voltage	400 V
Current	4.0 A	Speed	715 rpm
Service Factor	1	Phase	3
Efficiency	79.7 %	Power Factor	0.7
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
Number of Speeds	3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	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		
Outline Drawing	0211200262	Connection Drawing	8442000085

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3 of 6







Model No. TCE1P54A5111GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	9	6 EFF a	tloa	d	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	Y	50	1.5	2.0	4.0	715	19.97	IE3	-	79.7	79.7	79.3	0.68	0.59	0.45	4.8	2.0	2.4
Motor	type				TCE				Dee	ree of	protect	ion				IP 55		
Enclosu						unting	•					IM B3						
	Materia	1			Cast Ir	on				oling m						IC 411		
Frame	size				112N	1				•	ght - ap	prox.				53		kg
Duty					Gro	ss weig	ght - app	orox.				56		kg				
Voltage	e variatio	on *			± 10%	6			Mo	Motor inertia					0.0200			kgm ²
Freque	ncy varia	ation *			± 5%	,)			Loa	d inerti	ia				Cust	omer to Prov	ide	
Combir	ned varia	ation *			10%				Vib	Vibration level						1.6		mm/s
Design				Ν				Noi	Noise level (1meter distance from motor)					or)	56		dB(A)	
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulati	ion class	5			F				Sta	Starting method						DOL		
Ambier	nt tempe	erature	2		-15 to +	+40		°C	Тур	Type of coupling						Direct		
Tempe	rature ri	ise (by	resistan	ce)	70 [Clas	s B]		К	tE t	ime						35		S
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	D			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					Aco	cessory	- 1				PTC 150°C		
Rotor t	уре			Al	uminum I	Die cast				Aco	cessory	- 2				-		
Bearing	g type			A	Anti-frictio	on ball				Aco	cessory	- 3				-		
DE / NE	DE beari	ng		63	06-2Z / (5206-2Z			Ter	minal b	ox posi	tion				TOP		
Lubrica	tion me	thod		(Greased fo	or life			Ma	ximum	cable si	ze/cond	duit size	e 1R	x 3C x 3	16mm²/2 x N	125 x 1.5	
Type of	fgrease				NA				Aux	diliary to	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 v	variations between calculated	l 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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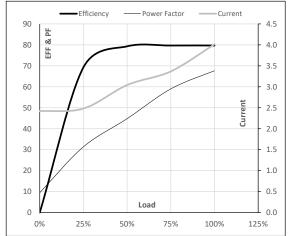
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Enclosure	U	Δ / Y	f	Р	Р	I.	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	1.5	2	4.0	715	2.04	19.97	IE3	40	S1	1000	0.02	53

Motor Load Data

							- 1
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.4	2.5	3.0	3.4	4.0	
Torque	Nm	0.0	6.5	13.2	20.0	20.0	
Speed	r/min	750	742	734	725	715	
Efficiency	%	0.0	69.3	79.3	79.7	79.7	
Power Factor	%	9.5	31.4	44.8	59.0	67.7	

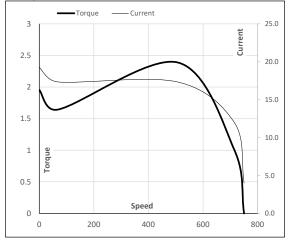
Performance vs Load Chart



Motor Speed Torque Data

motor opec	a loique Batt	•											
Load Point		LR	P-Up	BD	Rated	NL							
Speed	r/min	0	68	506	715	750							
Current	А	19.3	17.3	12.0	4.0	2.4							
Torque	pu	2.0	1.6	2.4	1	0							

Starting Characteristics Chart



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

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