PRODUCT INFORMATION PACKET

Model No: TCE0032A5111GAA001 Catalog No: TCE0032A5111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 4 HP, 3 Ph, 50 Hz, 400 V, 1460 RPM, 100L Frame



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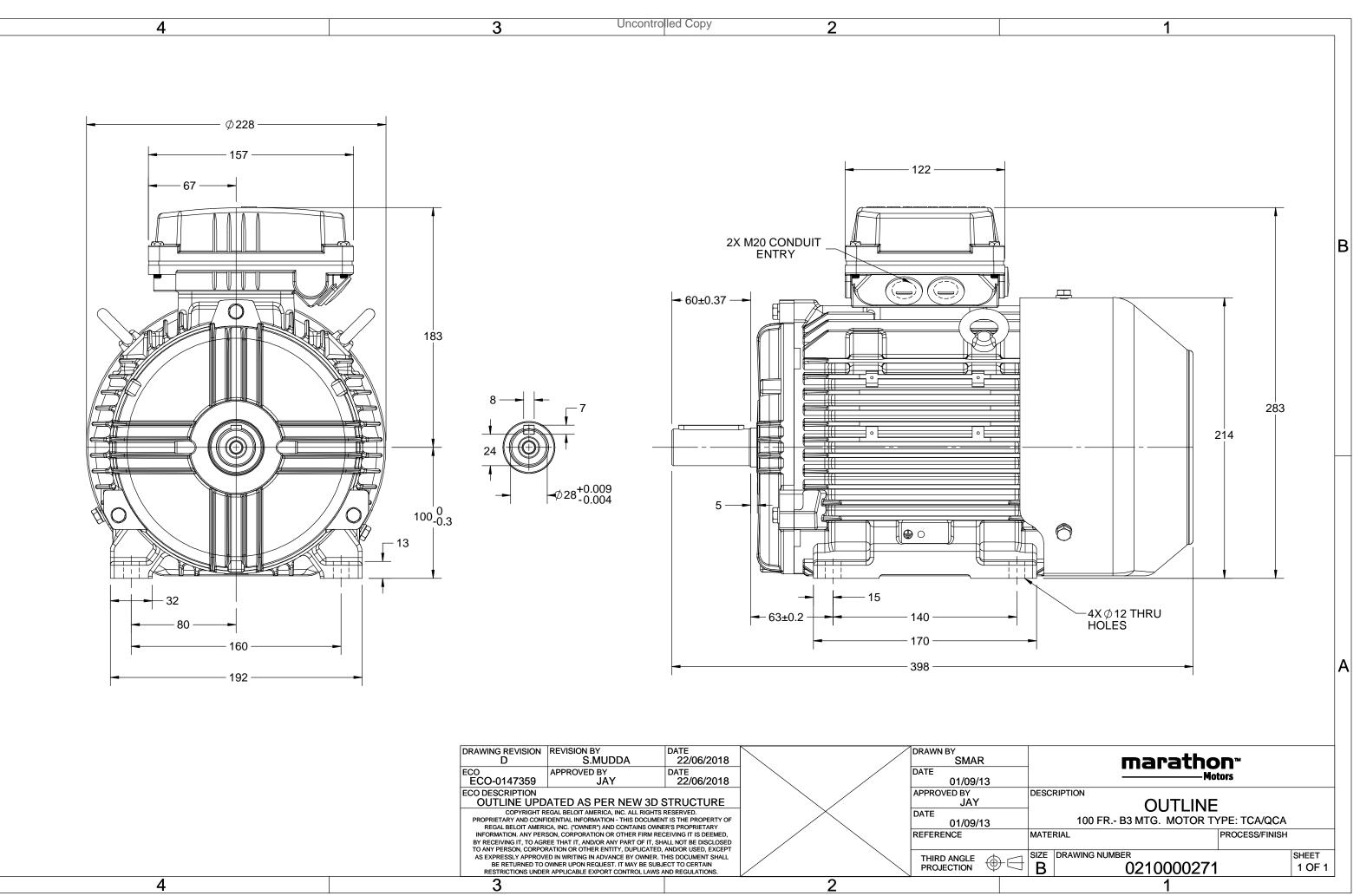
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	400 V
Current	6.0 A	Speed	1460 rpm
Service Factor	1	Phase	3
Efficiency	87.7 %	Power Factor	0.82
Duty	S1	Insulation Class	F
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6206	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	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	398 mm	Frame Length	200 mm	
Shaft Diameter	28.000 mm	Shaft Extension	60 mm	
Assembly/Box Mounting	Тор			
Connection Drawing	8442000085	Outline Drawing	0210000271	

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B

A

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Model No. TCE0032A5111GAA001

U	Δ / Y	f	Р	Р	I	n	Т	IE	ç	% EFF a	t loa	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	Δ	50	3	4.0	6.0	1460	19.51	IE3	-	87.7	87.7	87.5	0.82	0.75	0.63	8.3	3.1	3.6
Motor	type				TCE				Deg	gree of	protect	ion				IP 55		
Enclos	ure				TEFO	2			Мо	unting	type					IM B3		
Frame	Materia	l -			Cast Ir	on			Coo	oling m	ethod					IC 411		
Frame	size				100	L			Мо	Motor weight - approx.					46			kg
Duty					S1				Gro	Gross weight - approx.					49			kg
Voltag	e variati	on *			± 109	%			Motor inertia					0.0150			kgm ²	
Freque	ency vari	ation *			± 5%	0			Loa	id inerti	ia				Custo	omer to Provid	le	
Combi	ned varia	ation *			10%			Vib	Vibration level						1.6		mm/s	
Design					Ν				Noi	Noise level (1meter distance from motor)					r)	55		dB(A)
Service	e factor				1.0				No.	of star	ts hot/c	cold/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	le above	sea lev	vel		1000)		meter	Dire	ection o	of rotati	on			В	i-directional		
Hazard	lous area	a classi	fication		Ex el	b			Sta	Standard rotation					Clockwise form DE			
	Zone cla	assifica	ition		Zone	1			Pai	nt shad	e					RAL 7016		
	Gas gro	oup			IIC				Acc	essorie	S							
	Temper	rature	class		Т3					Aco	cessory	- 1				PTC 150°C		
Rotor t	type			Α	uminum	Die cast				Aco	cessory	- 2				-		
Bearin	g type				Anti-frictio	on ball				Aco	cessory	- 3				-		
DE / N	DE beari	ng		62	06-2Z /	6206-2Z			Ter	minal b	ox posi	tion				TOP		
Lubrica	ation me	thod			Greased f	or life			Ma						R x 3C x 10mm²/2 x M20 x 1.5			
Type o	f grease				NA				Aux	kiliary to	erminal	box				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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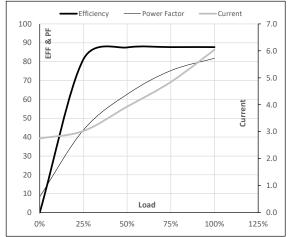
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	3	4	6.0	1460	1.99	19.51	IE3	40	S1	1000	0.015	46

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.8	3.0	3.9	4.8	6.0	
Torque	Nm	0.0	6.5	13.0	19.7	19.5	
Speed	r/min	1500	1490	1481	1471	1460	
Efficiency	%	0.0	81.2	87.5	87.7	87.7	
Power Factor	%	8.4	43.8	62.7	75.3	81.7	

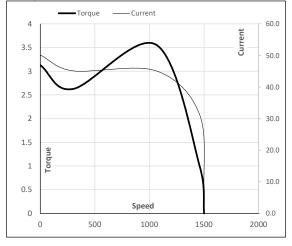
Performance vs Load Chart



Motor Speed Torque Data

motor opec.	a loique sau	-					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	300	1063	1460	1500	
Current	А	50.1	45.1	31.2	6.0	2.8	
Torque	pu	3.1	2.6	3.6	1	0	

Starting Characteristics Chart



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

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