PRODUCT INFORMATION PACKET

Model No: TCE2P21A5111GAA001 Catalog No: TCE2P21A5111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 3 HP, 3 Ph, 50 Hz, 400 V, 2889 RPM, 90L Frame



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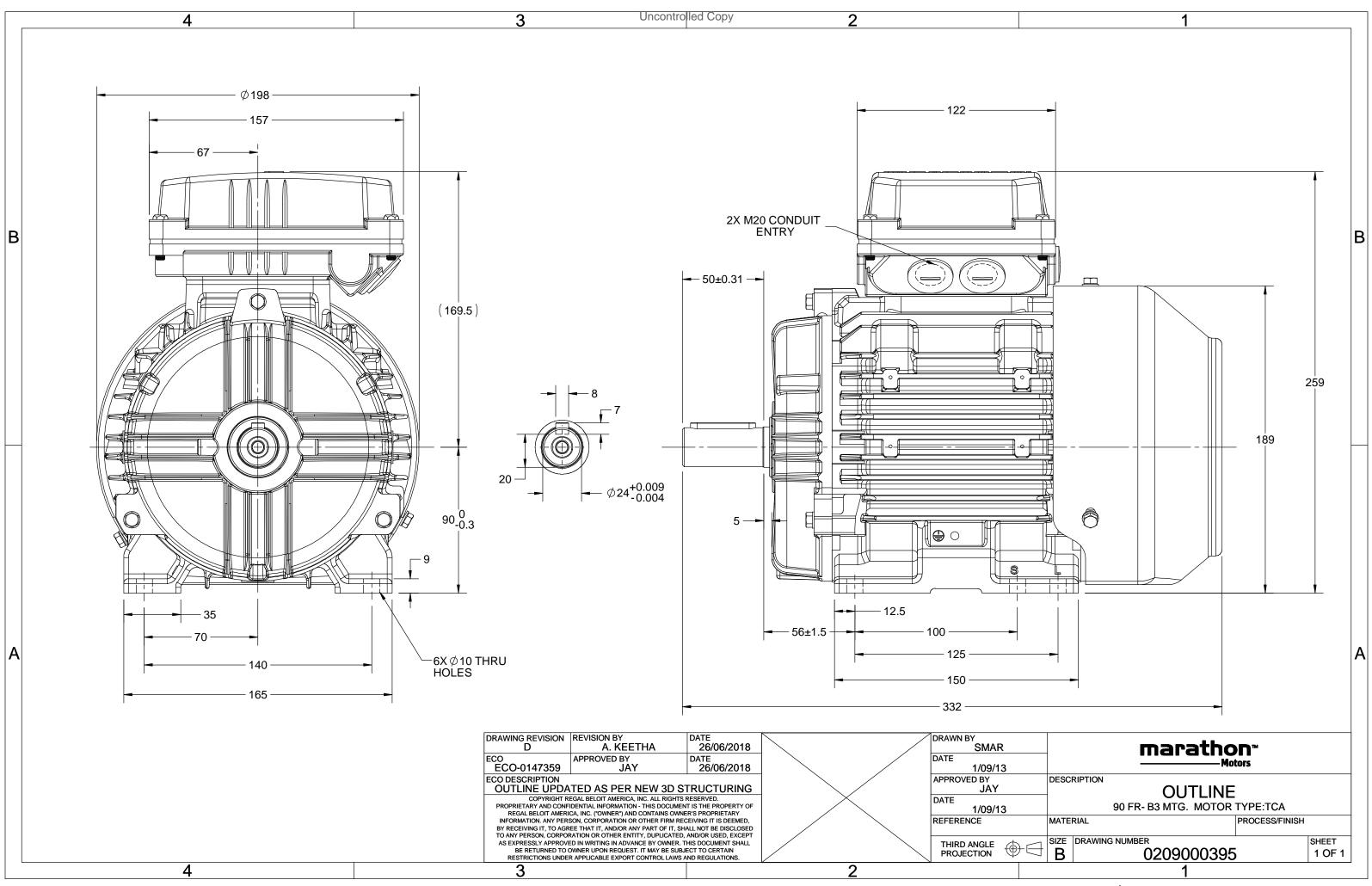
Nameplate Specifications

Output HP	3 Нр	Output KW	2.2 kW
Frequency	50 Hz	Voltage	400 V
Current	4.3 A	Speed	2889 rpm
Service Factor	1	Phase	3
Efficiency	85.9 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	90L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
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	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	332 mm	Frame Length	128 mm
Shaft Diameter	24.000 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0209000395

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE	ģ	% 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	Y	50	2.2	3.0	4.3	2889	7.39	IE3	-	85.9	85.9	85.7	0.86	0.80	0.68	8.8	4.6	4.4
Motor					TCE					2	protect	ion				IP 55		
Enclosu					TEF	-				unting						IM B3		
	Materia	I			Cast I					oling m						IC 411		
Frame	size				901						ight - ap					29		kg
Duty					S1						ght - app	orox.				30		kg
	e variati				± 10	%			Mo	tor ine	rtia					0.0029		kgm ²
Freque	ncy vari	ation *			± 5%	6			Loa	id inert	ia				Custo	omer to Provide	5	
Combir	ned varia	ation *			10%	, D			Vib	ration l	evel					1.6		mm/s
Design					N				Noi	ise leve	l (1met	er dista	nce fro	m moto	r)	63		dB(A)
Service	factor				1.0				No.	of star	ts hot/c	cold/Equ	ually sp	read		2/3/4		
Insulati	ion class	;			F				Sta	rting m	ethod					DOL		
Ambier	nt temp	erature	9		-15 to	+40		°C	Тур	e of co	upling					Direct		
Tempe	rature r	ise (by	resistan	ce)	70 [Cla	ss B]		К	tE t	ime						5		S
Altitud	e above	sea lev	/el		100	D		meter	Dire	ection o	of rotati	on			В	Bi-directional		
Hazard	ous area	a classi	fication		Ex e	b			Sta	Standard rotation					Clockwise form DE			
	Zone cla	assifica	tion		Zone	2			Pai	nt shad	e					RAL 7016		
	Gas gro	up			IIC				Acc	essorie	S							
	Temper	ature	class		Т3					Ac	cessory	- 1				PTC 150°C		
Rotor t	ype			А	uminum	Die cast				Ac	cessory	- 2				-		
Bearing	g type				Anti-fricti	on ball				Ac	cessory	- 3				-		
DE / NI	DE beari	ng		62	05-2Z /	6205-2Z			Ter	minal b	ox posi	tion				ТОР		
-	ition me	•			Greased f	or life					cable si		luit size	e 1R	x 3C x 3	10mm²/2 x M20) x 1.5	
Type of	f 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 v	variations between calculated	l values in this datashe	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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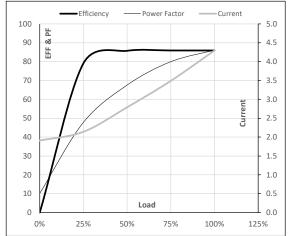
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Enclosure	U	Δ / Y	f	Р	Р	I	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Y	50	2.2	3	4.3	2889	0.75	7.39	IE3	40	S1	1000	0.0029	29

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.9	2.1	2.8	3.5	4.3	
Torque	Nm	0.0	2.4	4.9	7.4	7.4	
Speed	r/min	3000	2973	2947	2919	2889	
Efficiency	%	0.0	79.1	85.7	85.9	85.9	
Power Factor	%	10.2	47.8	67.6	80.0	86.0	

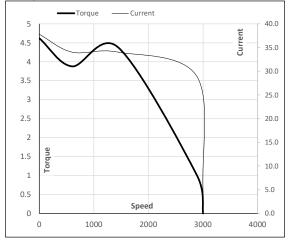
Performance vs Load Chart



Motor Speed Torque Data

motor opec	a loique Batt	•										
Load Point		LR	P-Up	BD	Rated	NL						
Speed	r/min	0	600	1445	2889	3000						
Current	А	37.8	34.0	28.9	4.3	1.9						
Torque	pu	4.6	3.9	4.4	1	0						

Starting Characteristics Chart



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

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