PRODUCT INFORMATION PACKET

Model No: TCE0554A2111GAA001 Catalog No: TCE0554A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 75 HP, 3 Ph, 50 Hz, 400 V, 743 RPM, 315S Frame



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



marathon[®] Motors



Product Information Packet: Model No: TCE0554A2111GAA001, Catalog No:TCE0554A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 75 HP, 3 Ph, 50 Hz, 400 V, 743 RPM, 315S Frame

marathon®

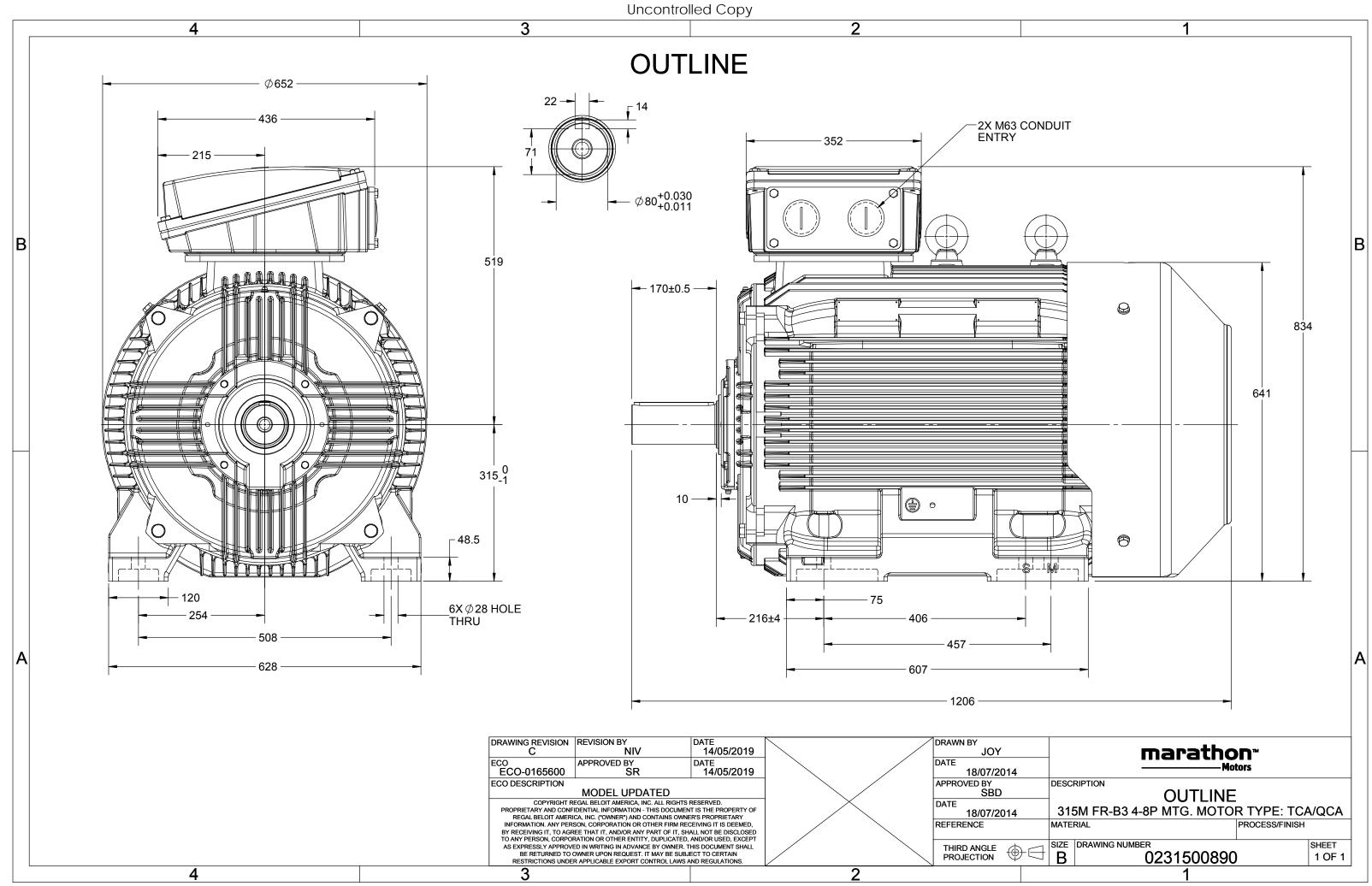
Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	50 Hz	Voltage	400 V
Current	119.6 A	Speed	743 rpm
Service Factor	1	Phase	3
Efficiency	92.5 %	Power Factor	0.7
Duty	S1	Insulation Class	F
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
UL	No	CSA	No
CE	Yes	IP Code	IP55

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	1206 mm	Frame Length	729 mm
Shaft Diameter	58.000 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500890

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 12/02/2022



3 of 6







Model No. TCE0554A2111GAA001

U	Δ / Y	f	Р	Р	Ι	n	Т	IE	9	% EFF a	t loa	d	PF	at lo	oad	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	55	75.0	119.6	743	719.95	IE3	-	92.5	92.5	92.3	0.72	0.65	0.52	4.7	1.8	2.1
Matar	tu 1000				TCE				Dec	area of	protoct					IP 55		
Motor					TEFC				-	-	protect	ion				IP 55 IM B3		
Enclosu										unting								
	Materia	I			Cast Iro					oling m						IC 411		
Frame	size				3155						ight - ap	•				889		kg
Duty					S1					-	ght - app	prox.				934		kg
U	e variati				± 10%					tor ine						3.7895		kgm ²
	ncy vari				± 5%				Loa	id inert	ia				Custo	omer to Prov	vide	
Combir	ned varia	ation *			10%					ration l						2.8		mm/s
Design					N				Noi	ise leve	l (1met	er dista	nce fro	m moto	or)	64		dB(A)
Service	factor				1.0				No.	of star	rts hot/o	old/Equ	ally spi	read		2/3/4		
Insulati	ion class	5			F				Sta	rting m	ethod					DOL		
Ambier	nt temp	erature	2		-15 to +	40		°C	Тур	e of co	upling					Direct		
Tempe	rature ri	ise (by	resistan	ce)	70 [Class	5 B]		К	tE t	ime						20		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				Sta	ndard r	otation				Cloc	kwise form	DE	
	Zone cla	assifica	tion		Zone	1			Pai	nt shad	le					RAL 7016		
	Gas gro	oup			IIC				Acc	essorie	es							
	Temper	rature o	class		Т3					Ac	cessory	- 1				PTC 150°C		
Rotor t	ype			Alu	uminum d	ie cast				Ac	cessory	- 2				-		
Bearing	g type			Anti-f	friction ba	ll bearing	S			Ac	cessory	- 3						
DE / NI	DE beari	ng		63	19 C3/6	319 C3			Ter	minal b	oox posi	tion				ТОР		
Lubrica	ition me	thod			Regreasa	able			Ma	ximum	cable si	ze/cond	luit size	e 1R	x 3C x 2	40mm²/2 x I	M63 x 1.5	5
Type of	f grease		She	ell Gadu	us S5 V100) or Equiv	alent				erminal					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



marathon®

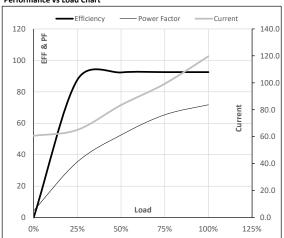


Model No. TCE0554A2111GAA001

Enclosure	U	Δ/Υ	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	55	75	119.6	743	73.41	719.95	IE3	40	S1	1000	3.7895	889

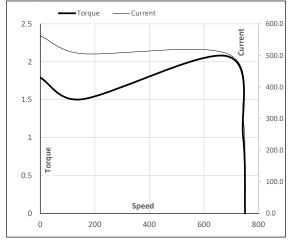
Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	60.6	65.1	83.4	99.3	119.6	
Torque	Nm	0.0	242.3	485.6	730.1	720.0	
Speed	r/min	750	748	746	745	743	
Efficiency	%	0.0	87.6	92.3	92.5	92.5	
Power Factor	%	4.4	35.4	52.5	65.4	71.7	



Performance vs Load Chart

Starting Characteristics Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	150	684	743	750
Current	А	562.4	506.1	298.4	119.6	60.6
Torque	pu	1.8	1.5	2.1	1	0

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

Issued By Issued Date

