PRODUCT INFORMATION PACKET

Model No: TCE1102A2111GAA001 Catalog No: TCE1102A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 150 HP, 3 Ph, 50 Hz, 400 V, 1489 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







Product Information Packet: Model No: TCE1102A2111GAA001, Catalog No:TCE1102A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 150 HP, 3 Ph, 50 Hz, 400 V, 1489 RPM, 315S Frame

marathon®

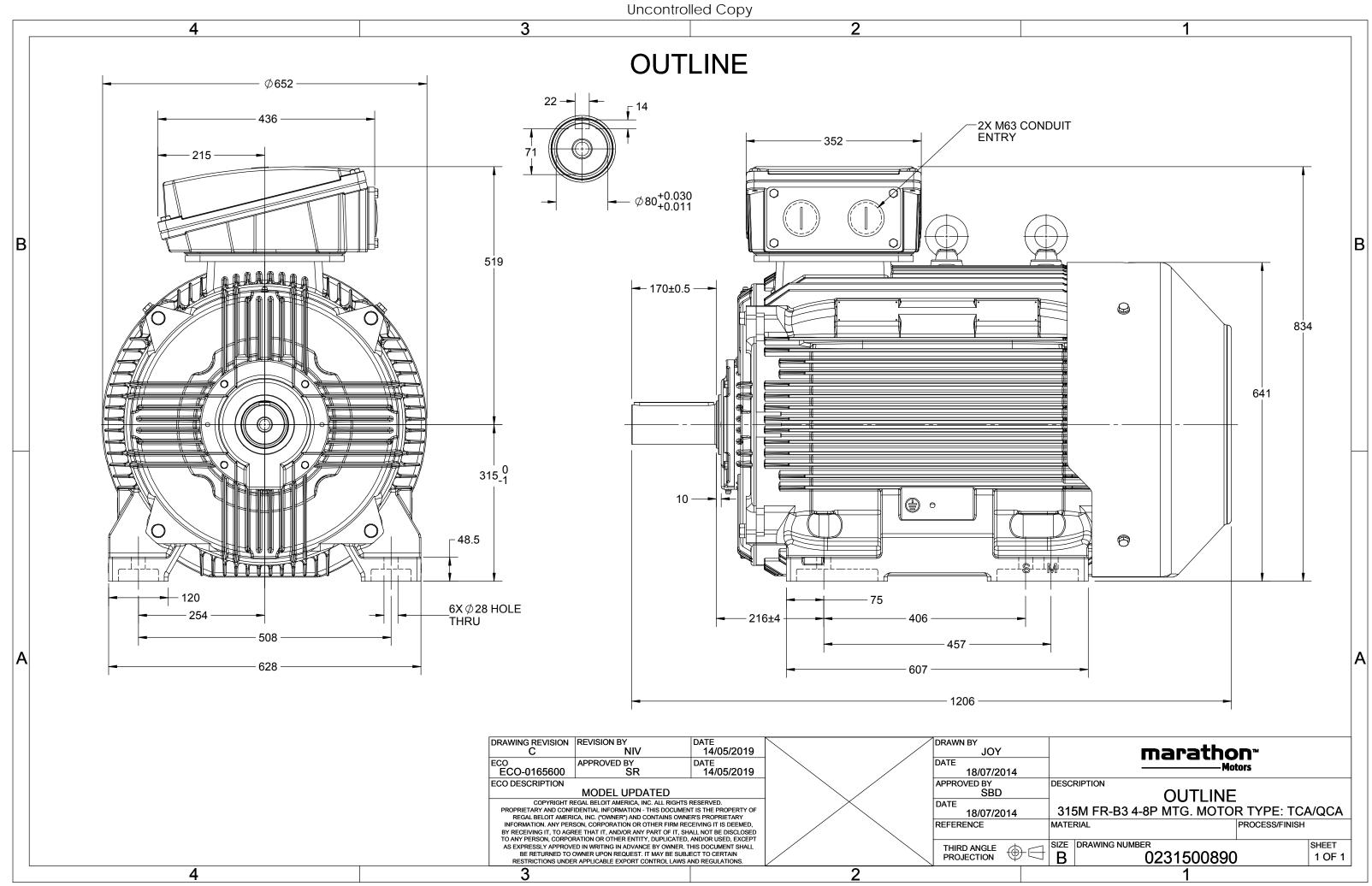
Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	400 V
Current	194.7 A	Speed	1489 rpm
Service Factor	1	Phase	3
Efficiency	95.4 %	Power Factor	0.85
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
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	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. TCE1102A2111GAA001

U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% 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	110	150.0	194.7	1489	717.31	IE3	-	95.4	95.4	94.8	0.85	0.81	0.71	7.3	2.2	3.4
Motor	type				TCE				De	gree of	protect	ion				IP 55		
Enclosu					TEFC					ounting	•					IM B3		
Frame	Materia	ıl			Cast Iro	on				oling m						IC 411		
Frame	size				3155					•	ight - ap	prox.				989		kg
Duty					S1				Gro	oss weig	ght - app	orox.				1034		kg
Voltage	e variati	on *			± 10%	6			Mc	tor ine	rtia					3.5515		kgm ²
Freque	ncy vari	ation *			± 5%				Loa	nd inert	ia				Custo	omer to Prov	ide	
Combir	ned vari	ation *			10%				Vib	ration l	level					2.8		mm/s
Design					Ν				No	ise leve	l (1met	er dista	nce fro	m moto	or)	69		dB(A)
Service	factor				1.0				No	. of star	rts hot/c	old/Equ	ually sp	read		2/3/4		
Insulati	ion class	5			F				Sta	rting m	ethod					DOL		
Ambier	nt temp	erature	2		-15 to +	40		°C	Тур	oe of co	upling					Direct		
Tempe	rature r	ise (by	resistan	ice)	70 [Clas	s B]		К	tE 1	time						15		S
Altitud	e above	sea lev	/el		1000			meter	Dir	ection o	of rotati	on			В	i-directional		
Hazard	ous area	a classi	fication		Ex eb				Sta	ndard r	otation				Cloc	ckwise form [DE	
	Zone cl	assifica	tion		Zone	1			Pai	nt shad	le					RAL 7016		
	Gas gro	oup			IIC				Acc	cessorie	s							
	Temper	rature o	class		Т3					Ac	cessory	- 1				PTC 150°C		
Rotor t	ype			Alı	ıminum E	Die cast				Ac	cessory	- 2				-		
Bearing	g type			A	nti-frictio	n ball				Ac	cessory	- 3				-		
DE / NE	DE beari	ng		633	L9 C3/6	319 C3			Ter	minal b	oox posi	tion				TOP		
Lubrica	ition me	thod			Regrease	able			Ma	ximum	cable si	ze/cond	duit size	9 1R	x 3C x 2	40mm²/2 x N	И63 x 1.5	
Type of	f grease			CHEVRC	N SRI-2 c	r Equival	ent		Au	xiliary t	erminal	box				NA		

 $\rm I_A/\rm I_N$ - 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 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

marathon®



Model No. TCE1102A2111GAA001

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	110	150	194.7	1489	73.15	717.31	IE3	40	S1	1000	3.5515	989
1															

Motor Load Data

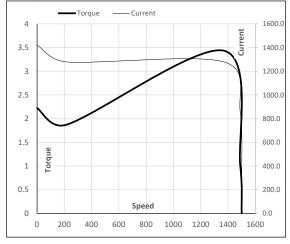
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	73.1	86.3	120.0	156.0	194.7	
Torque	Nm	0.0	241.8	484.5	728.0	717.3	
Speed	r/min	1500	1497	1495	1492	1489	
Efficiency	%	0.0	91.5	94.8	95.4	95.4	
Power Factor	%	4.9	51.2	71.0	81.2	85.5	

Performance vs Load Chart Efficiency - Power Factor -Current _ _ 250.0 120 EFF & PF 100 200.0 80 150.0 Current 60 100.0 40 50.0 20 Load 0 0.0 100% 125% 0% 25% 50% 75%

Motor Speed Torque Data

motor opect											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	214	1370	1489	1500					
Current	А	1421.3	1279.2	852.9	194.7	73.1					
Torque	pu	2.2	1.9	3.4	1	0					

Starting Characteristics Chart



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

Issued By Issued Date

