PRODUCT INFORMATION PACKET

Model No: TCE1602A2111GAA001 Catalog No: TCE1602A2111GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 215 HP, 3 Ph, 50 Hz, 400 V, 1489 RPM, 315L Frame



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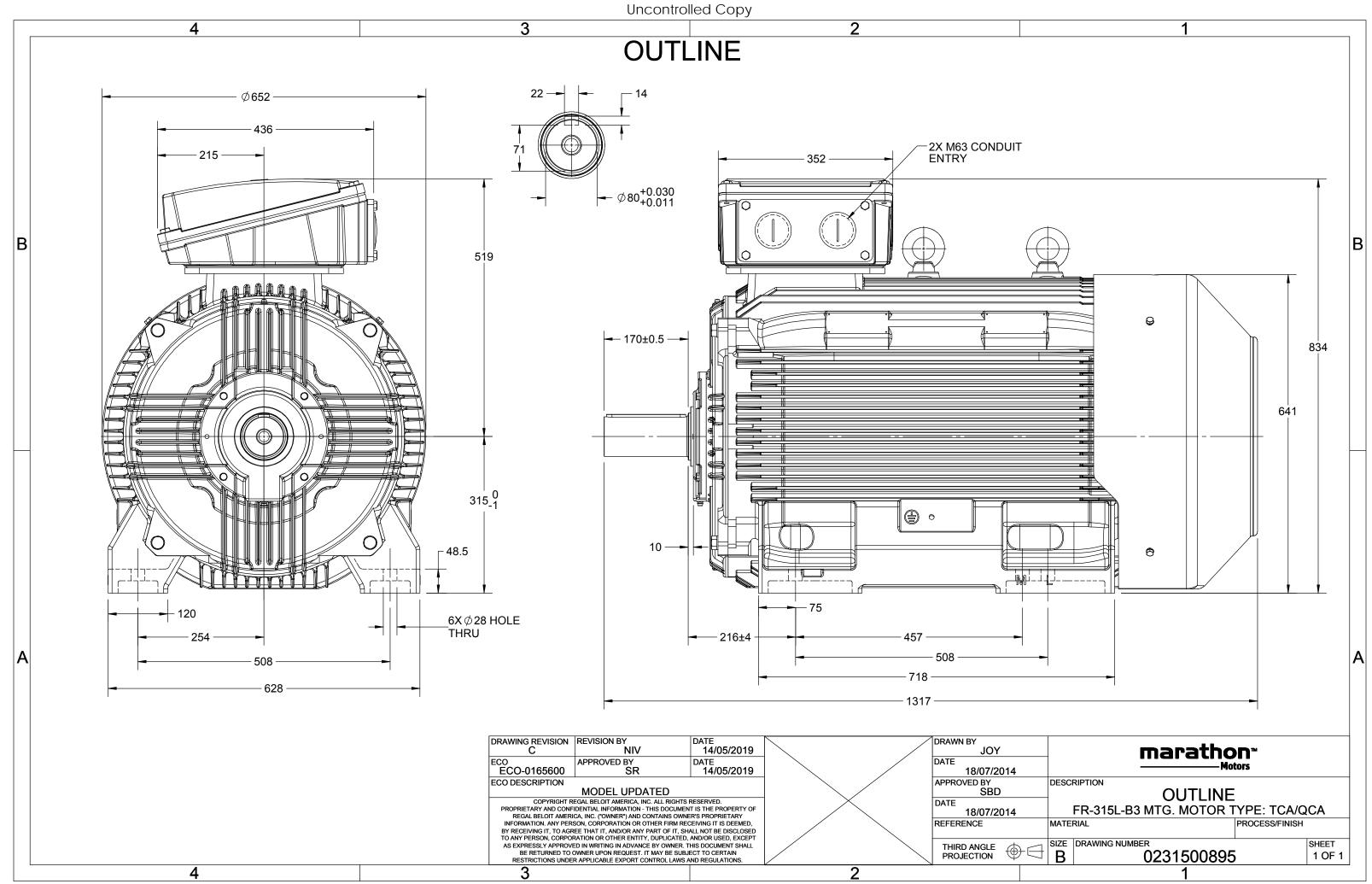
Nameplate Specifications

Output HP	215 Hp	Output KW	160.0 kW
Frequency	50 Hz	Voltage	400 V
Current	276.3 A	Speed	1489 rpm
Service Factor	1	Phase	3
Efficiency	95.8 %	Power Factor	0.87
Duty	S1	Insulation Class	F
Frame	315L	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	Νο
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	1287 mm	Frame Length	840 mm
Shaft Diameter	65.000 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0231500895	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	Ι	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	160	215.0	276.3	1489	1027.97	IE3	-	95.8	95.8	95.4	0.87	0.84	0.75	7.5	2.4	3.4
Motor	type				TCE				Deg	gree of	protect	ion				IP 55		
Enclos	ure				TEFC				Mo	ounting	type					IM B3		
Frame	Materia	ıl			Cast Iro	on			Cod	oling m	ethod					IC 411		
Frame	size				315L				Mo	otor wei	ight - ap	prox.				1239		kg
Duty					S1				Gro	oss weig	ght - app	orox.				1284		kg
Voltag	e variati	on *			± 10%	6			Mo	otor ine	rtia					5.0106		kgm ²
Freque	ency vari	ation *			± 5%				Loa	nd inert	ia				Custo	omer to Prov	vide	
Combi	ned vari	ation *			10%				Vib	ration l	evel					2.8		mm/s
Design					Ν				No	ise leve	l (1met	er dista	nce fro	m moto	r)	69		dB(A)
Service	factor				1.0				No	. of star	rts hot/c	old/Equ	ally 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	be of co	upling					Direct		
Tempe	rature r	ise (by	resistan	ice)	70 [Clas	s B]		К	tE t	time						10		S
Altitud	e above	sea lev	/el		1000			meter	Dir	ection o	of rotati	on			В	i-directional		
Hazarc	lous area	a classi	fication		Ex eb)			Sta	ndard r	otation				Cloc	kwise form l	DE	
	Zone cl	assifica	tion		Zone	1			Pai	nt shad	le					RAL 7016		
	Gas gro	oup			IIC				Acc	cessorie	es							
	Temper	rature o	class		Т3					Ac	cessory	- 1				PTC 150°C		
Rotor t	суре			Alu	uminum E	Die cast				Ac	cessory	- 2				-		
Bearin	g type			A	nti-frictic	n ball				Ac	cessory	- 3				-		
DE / N	DE beari	ng		631	19 C3/6	319 C3			Ter	minal b	oox posi	tion				TOP		
Lubrica	ation me	thod			Regrease	able			Ma	ximum	cable si	ze/cond	luit size	1R	x 3C x 2	40mm²/2 x l	VI63 x 1.5	5
Туре о	f grease			CHEVRO	N SRI-2 c	or Equival	ent		Aux	xiliary t	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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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	160	215	276.3	1489	104.82	1027.97	IE3	40	S1	1000	5.0106	1239

Motor Load Data

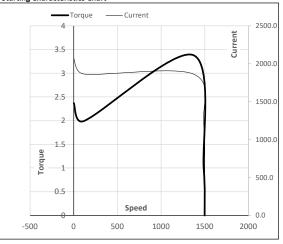
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	92.7	113.2	162.4	216.2	276.3	
Torque	Nm	0.0	346.6	694.4	1043.4	1028.0	
Speed	r/min	1500	1497	1495	1492	1489	
Efficiency	%	0.0	92.6	95.4	95.8	95.8	
Power Factor	%	4.6	55.2	74.7	83.6	87.2	

Performance vs Load Chart - Efficiency - Power Factor -Current _ _ 300.0 120 EFF & PF 100 250.0 80 200.0 Current 60 150.0 40 100.0 20 50.0 Load 0 0.0 75% 100% 125% 0% 25% 50%

Motor Speed Torque Data

wotor speed	Torque Dat	a					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	115	1370	1489	1500	
Current	А	2072.5	1865.2	1205.5	276.3	92.7	
Torque	pu	2.4	2.0	3.4	1	0	

Starting Characteristics Chart



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

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