PRODUCT INFORMATION PACKET



Model No: TCE1322A2111GAA001 Catalog No: TCE1322A2111GAA001

TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 175 HP, 3 Ph, 50 Hz, 400 V,

1489 RPM, 315M Frame



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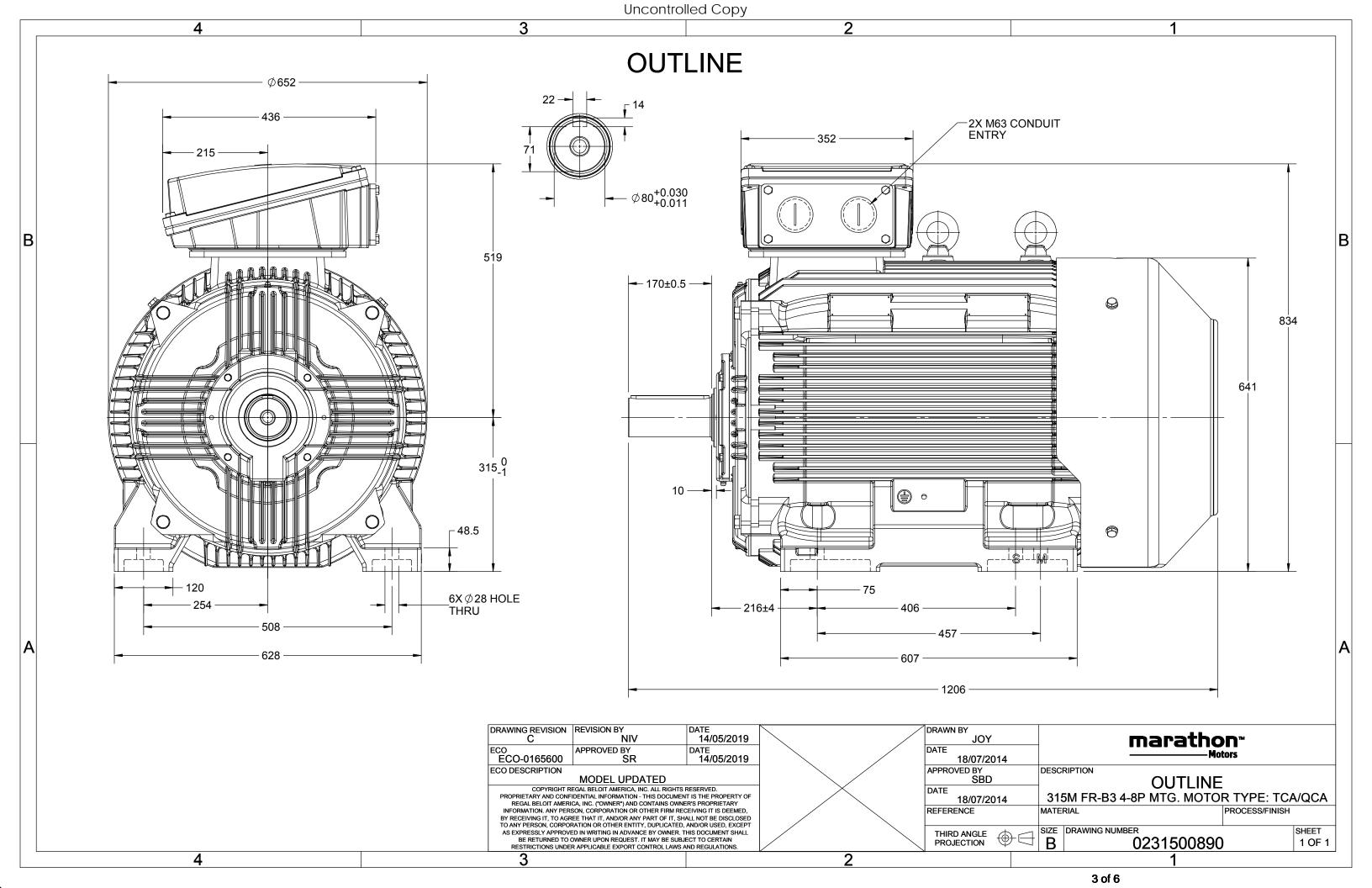
Nameplate Specifications

Output HP	175 Hp	Output KW	132.0 kW
Frequency	50 Hz	Voltage	400 V
Current	231.7 A	Speed	1489 rpm
Service Factor	1	Phase	3
Efficiency	95.6 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	315M	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

Squirrel Cage	Starting Method	Direct On Line
4	Rotation	Bi-Directional
В3	Motor Orientation	Horizontal
2z-C3	Opp Drive End Bearing	2z-C3
Cast Iron	Shaft Type	Keyed
1176 mm	Frame Length	729 mm
58.000 mm	Shaft Extension	140 mm
Тор		
0231500890	Connection Drawing	8442000085
	4 B3 2z-C3 Cast Iron 1176 mm 58.000 mm	4 Rotation B3 Motor Orientation 2z-C3 Opp Drive End Bearing Cast Iron Shaft Type 1176 mm Frame Length 58.000 mm Shaft Extension Top

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOMENTRIC TOLERANCE							
	>0~6	±0.1					
LINEAR DIM	>6~30	±0.2					
	>30~120	±0.3					



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







Model No. TCE1322A2111GAA001

U	Δ/Υ	f	Р	Р	I	n	T	IE	9	6 EFF a	t load	t	PF	at lo	ad	I _A /I _N	T _A /T _N	T _K /T _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	132	175.0	231.7	1489	836.73	IE3	-	95.6	95.6	95.1	0.86	0.82	0.72	7.5	2.3	3.4

Motor type	TCE		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B3	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	315M		Motor weight - approx.	1069	kg
Duty	S1		Gross weight - approx.	1114	kg
Voltage variation *	± 10%		Motor inertia	4.0682	kgm ²
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	N		Noise level (1meter distance from mo	tor) 69	dB(A)
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-15 to +40	°C	Type of coupling	Direct	
Temperature rise (by resista	nce) 70 [Class B]	K	tE time	10	S
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	n Ex eb		Standard rotation	Clockwise form DE	
Zone classification	Zone 1		Paint shade	RAL 7016	
Gas group	IIC		Accessories		
Temperature class	Т3		Accessory - 1	PTC 150°C	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6319 C3 / 6319 C3		Terminal box position	TOP	
Lubrication method	Regreasable		Maximum cable size/conduit size 1	R x 3C x 240mm ² /2 x M63 x 1.5	
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	NA	

 I_A/I_N - Locked Rotor Current / Rated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - Breakdown 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 $\,$

Technical data are subject to change. There may be slight variations between calculated values in this datasheet and the motor nameplate figures.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC:60034-30-1		-	-	-	IEC:60034-30-1

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^{*} Voltage, Frequency and combined variation are as per IEC60034-1





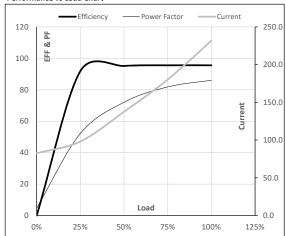
Model No. TCE1322A2111GAA001

Enclosure	U	Δ/Υ	f	Р	Р	1	n	Т	T	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	132	175	231.7	1489	85.32	836.73	IE3	40	S1	1000	4.0682	1069

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	82.5	98.1	137.5	180.2	231.7	
Torque	Nm	0.0	282.1	565.2	849.3	836.7	
Speed	r/min	1500	1497	1495	1492	1489	
Efficiency	%	0.0	91.9	95.1	95.6	95.6	
Power Factor	%	4.7	52.2	72.1	81.9	86.0	

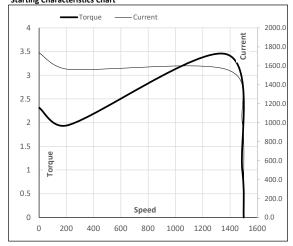
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	214	1370	1489	1500	
Current	Α	1737.5	1563.7	1000.4	231.7	82.5	
Torque	pu	2.3	1.9	3.4	1	0	

Starting Characteristics Chart



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

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