## **PRODUCT INFORMATION PACKET**

Model No: TCE1324A2121GAA001 Catalog No: TCE1324A2121GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 175 HP, 3 Ph, 50 Hz, 400 V, 742 RPM, 355M Frame



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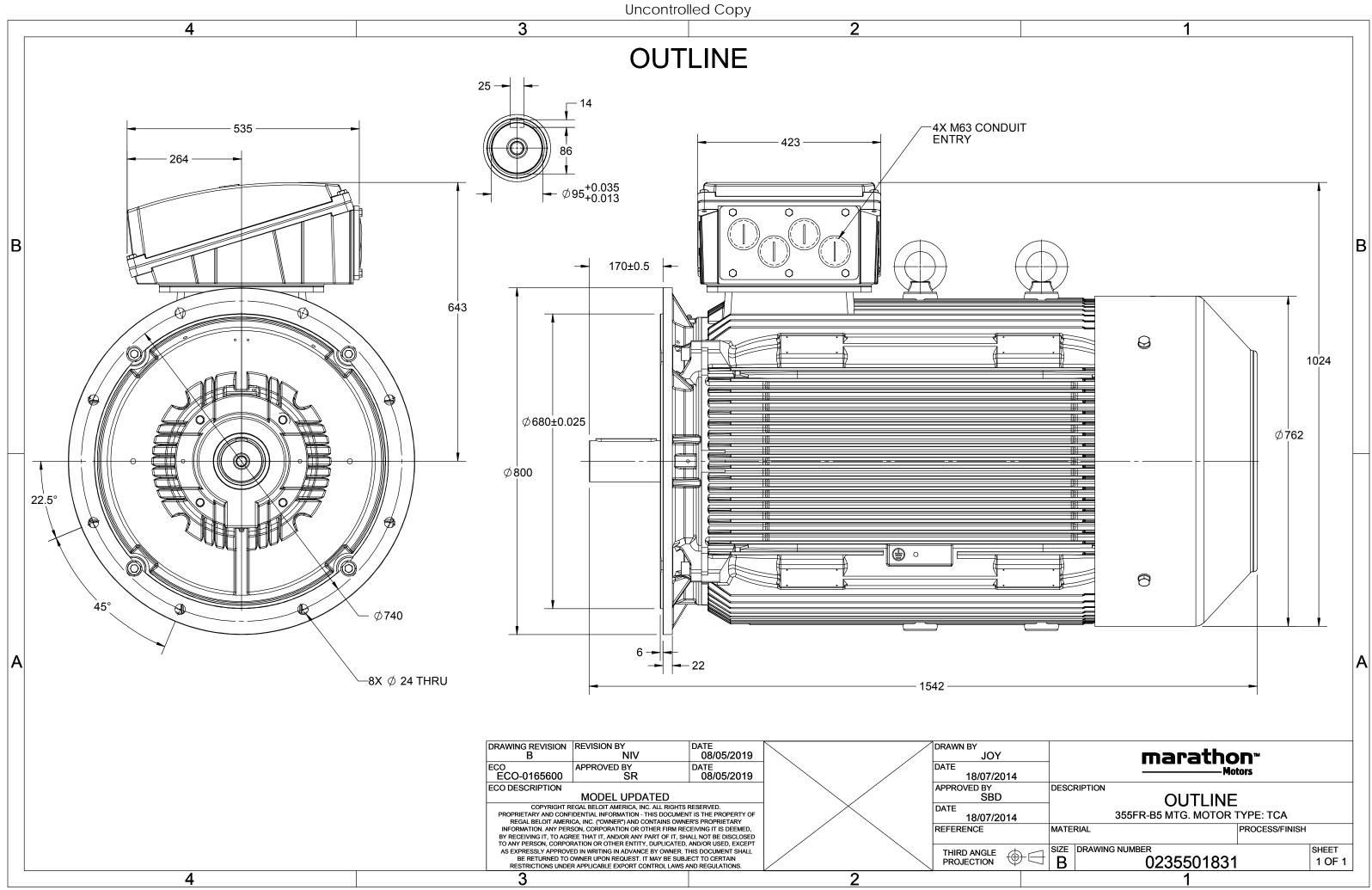
#### Nameplate Specifications

Output HP	175 Hp	Output KW	132.0 kW	
Frequency	50 Hz	Voltage	400 V	
Current	246.3 A	Speed	742 rpm	
Service Factor	1	Phase	3	
Efficiency	94 %	Power Factor	0.8	
Duty	S1	Insulation Class	F	
Frame	355M	Enclosure	Totally Enclosed Fan Cooled	
Thermal Protection	No Protection	Ambient Temperature	40 °C	
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322	
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	8	Rotation	Bi-Directional	
Mounting	B5	Motor Orientation	Horizontal	
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3	
Frame Material	Cast Iron	Shaft Type	Keyed	
Overall Length	1542 mm	Frame Length	1010 mm	
Shaft Diameter	95.000 mm	Shaft Extension	170 mm	
Assembly/Box Mounting	Тор			
Outline Drawing	0235501831	Connection Drawing	8442000085	

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#### TCE1324A2121GAA001 Model No.

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U	$\Delta / Y$	f	Р	Р	I.	n	т	IE	%	S EFF a	t load	ł	PF	at _ lo	ad	$I_A/I_N$	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(∨)	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	246.3	742	1679.41	IE3	-	94	94	94.5	0.82	0.79	0.70	6.0	1.5	2.4

Motor type	TCE		Degree of protection	IP 55	
Enclosure	TEFC		Mounting type	IM B5	
Frame Material	Cast Iron		Cooling method	IC 411	
Frame size	355M		Motor weight - approx.	1643	kg
Duty	S1		Gross weight - approx.	1688	kg
Voltage variation *	± 10%		Motor inertia	8.9257	kgm <sup>2</sup>
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	mm/s
Design	Ν		Noise level ( 1meter distance from mot	or) 65	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	ince) 70 [ Class B ]	К	tE time	10	s
Altitude above sea level	1000	meter	Direction of rotation	<b>Bi-directional</b>	
Hazardous area classificatio	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 bearing		Accessory - 3	-	
DE / NDE bearing	6322 C3/6322 C3		Terminal box position	ТОР	
Lubrication method	Regreasable		Maximum cable size/conduit size 1	R x 3C x 300mm²/4 x M63 x 1.5	
Type of grease S	hell Gadus S5 V100 or Equivalent		Auxiliary terminal box	NA	

Degree of protection	11 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	1643	kg
Gross weight - approx.	1688	kg
Motor inertia	8.9257	kgm <sup>2</sup>
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level ( 1meter distance from mo	tor) 65	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
tE time	10	s
Direction of rotation	<b>Bi-directional</b>	
Standard rotation	Clockwise form DE	
Paint shade	RAL 7016	
Accessories		
Accessory - 1	PTC 150°C	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size 1	R x 3C x 300mm²/4 x M63 x 1.	5
Auxiliary terminal box	NA	

 $I_A/I_N$  - Locked Rotor Current / Rated Current

 $T_{\text{A}}/T_{\text{N}}$  - Locked Rotor Torque / Rated Torque

 $T_{K}/T_{N}$  - 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

\* Voltage, Frequency and combined variation are as per IEC60034-1

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			