PRODUCT INFORMATION PACKET

Model No: TCE1504A2121GAA001 Catalog No: TCE1504A2121GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 200 HP, 3 Ph, 50 Hz, 400 V, 742 RPM, 355M Frame



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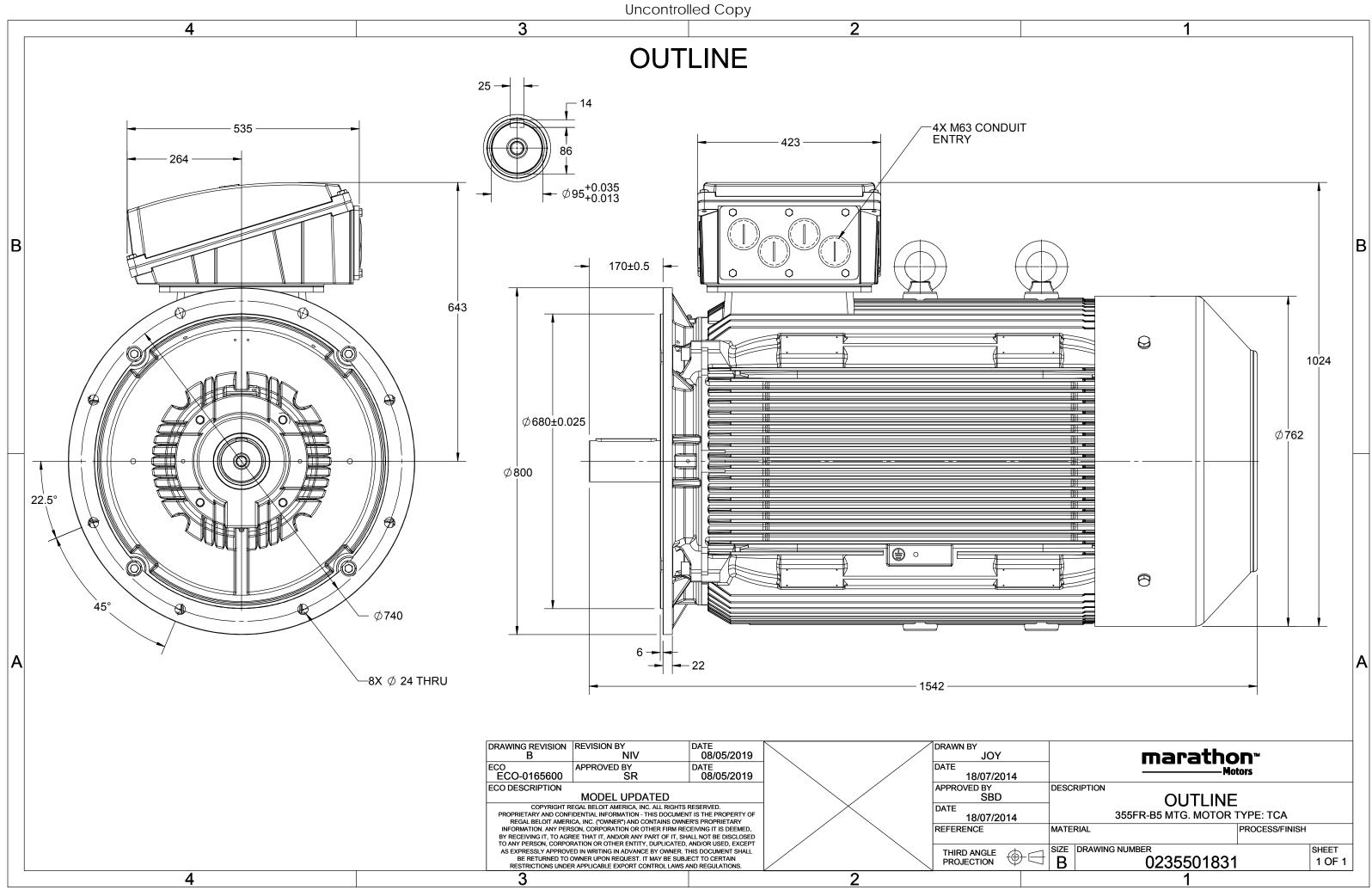
Nameplate Specifications

Output HP	200 Hp	Output KW	150.0 kW
Frequency	50 Hz	Voltage	400 V
Current	278.6 A	Speed	742 rpm
Service Factor	1	Phase	3
Efficiency	94.3 %	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		
Connection Drawing	8442000085	Outline Drawing	0235501831

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3 of 5







Model No. TCE1504A2121GAA001

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U	Δ / Y	f	Р	Р	I	n	т	IE	9	6 EFF a	t load	t	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	150	200.0	278.6	742	1919.75	IE3	-	94.3	94.3	94.7	0.82	0.79	0.70	6.0	1.5	2.4

Motor type	TCE		Degree of protection					
Enclosure	TEFC		Mounting type					
Frame Material	Cast Iron		Cooling method					
Frame size	355M		Motor weight - approx.					
Duty	S1		Gross weight - approx.					
Voltage variation *	± 10%		Motor inertia					
Frequency variation *	± 5%		Load inertia					
Combined variation *	10%		Vibration level					
Design	Ν		Noise level (1meter distance from	motor)				
Service factor	1.0		No. of starts hot/cold/Equally spre	ad				
Insulation class	F		Starting method					
Ambient temperature	-15 to +40	°C	Type of coupling					
Temperature rise (by resi	stance) 70 [Class B]	К	tE time					
Altitude above sea level	1000	meter	Direction of rotation					
Hazardous area classificat	ion Ex eb		Standard rotation					
Zone classification	Zone 1		Paint shade					
Gas group	IIC		Accessories					
Temperature class	т3		Accessory - 1					
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					
Lubrication method	Regreasable		Maximum cable size/conduit size	1R x 3C				
Type of grease	Shell Gadus S5 V100 or Equivalent		Auxiliary terminal box					

Degree of protection	IP 55	
Mounting type	IM B5	
Cooling method	IC 411	
Motor weight - approx.	1731	kg
Gross weight - approx.	1776	kg
Motor inertia	9.9098	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.8	mm/s
Noise level (1meter distance from mo	otor) 65	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
tE time	6	s
Direction of rotation	Bi-directional	
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	1R 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		