PRODUCT INFORMATION PACKET

Model No: TCE0041A2121GAA001 Catalog No: TCE0041A2121GAA001 TerraMAX® Increased Safety Motors Ex eb, Totally Enclosed Fan Cooled, 5.5 HP, 3 Ph, 50 Hz, 400 V, 2919 RPM, 112M Frame



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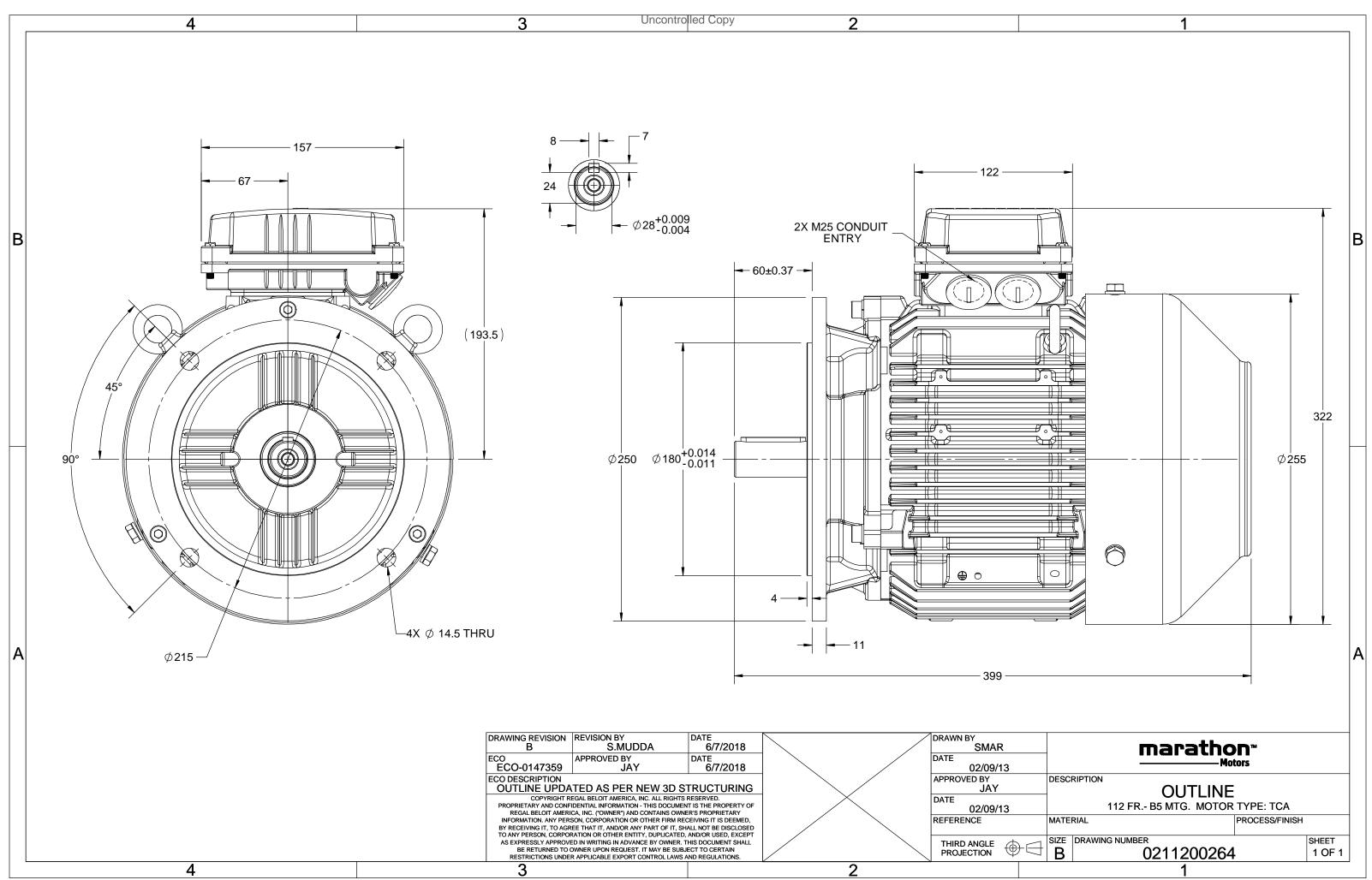
Nameplate Specifications

Output HP	5.50 Hp	Output KW	4.0 kW
Frequency	50 Hz	Voltage	400 V
Current	7.4 A	Speed	2919 rpm
Service Factor	1	Phase	3
Efficiency	88.1 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206
UL	Νο	CSA	Νο
CE	Yes	IP Code	IP55
Number of Speeds	3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	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	399 mm	Frame Length	174 mm
Shaft Diameter	28.000 mm	Shaft Extension	60 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0211200264	Connection Drawing	8442000085

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3 of 6







kg kg kgm²

mm/s dB(A)

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Model No. TCE0041A2121GAA001

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U	Δ / Y	f	Р	Р	I.	n	Т	IE	9	6 EFF a	t load	ł	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	4	5.5	7.4	2919	13.42	IE3	-	88.1	88.1	89.1	0.89	0.85	0.74	8.5	2.9	4.1

Motor type	TCE		Degree of protection	IP 55
Enclosure	TEFC		Mounting type	IM B5
Frame Material	Cast Iron		Cooling method	IC 411
Frame size	112M		Motor weight - approx.	47
Duty	S1		Gross weight - approx.	50
Voltage variation *	± 10%		Motor inertia	0.0096
Frequency variation *	± 5%		Load inertia	Customer to Provide
Combined variation *	10%		Vibration level	1.6
Design	Ν		Noise level (1meter distance from moto	or) 64
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 resistance)	70 [Class B]	К	tE time	10
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional
Hazardous area classification	Ex eb		Standard rotation	Clockwise form DE
Zone classification	Zone 2		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	6306-2Z / 6206-2Z		Terminal box position	TOP
Lubrication method	Greased for life		Maximum cable size/conduit size 1F	R x 3C x 16mm²/2 x M25 x 1.5
Type of grease	NA		Auxiliary terminal box	NA

 I_A/I_N - Locked Rotor Current / Rated Current

NOTE

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

 $\rm T_{\rm K}/\rm T_{\rm N}$ - Breakdown Torque / Rated Torque

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

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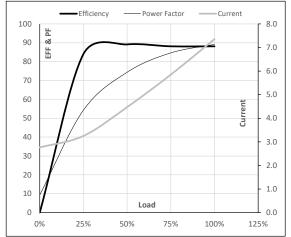
Model No. TCE0041A2121GAA001

Enclosure L	U	Δ / Y	f	Р	Р	I.	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
(\	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC 40	400	Δ	50	4	6	7.4	2919	1.37	13.42	IE3	40	S1	1000	0.0096	47

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	2.8	3.3	4.5	5.8	7.4	
Torque	Nm	0.0	4.4	9.0	13.5	13.4	
Speed	r/min	3000	2980	2961	2940	2919	
Efficiency	%	0.0	84.0	89.1	88.1	88.1	
Power Factor	%	9.3	54.3	74.4	84.6	89.1	

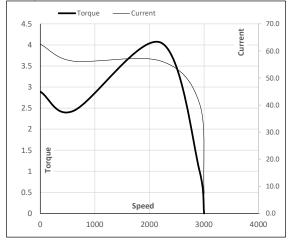
Performance vs Load Chart



Motor Speed Torque Data

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Load Point		LR	P-Up	BD	Rated	NL												
Speed	r/min	0	600	2213	2919	3000												
Current	А	62.5	56.3	40.5	7.4	2.8												
Torque	pu	2.9	2.4	4.1	1	0												

Starting Characteristics Chart



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

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