PRODUCT INFORMATION PACKET

Model No: TCE1324A2111GAA001 Catalog No: TCE1324A2111GAA001 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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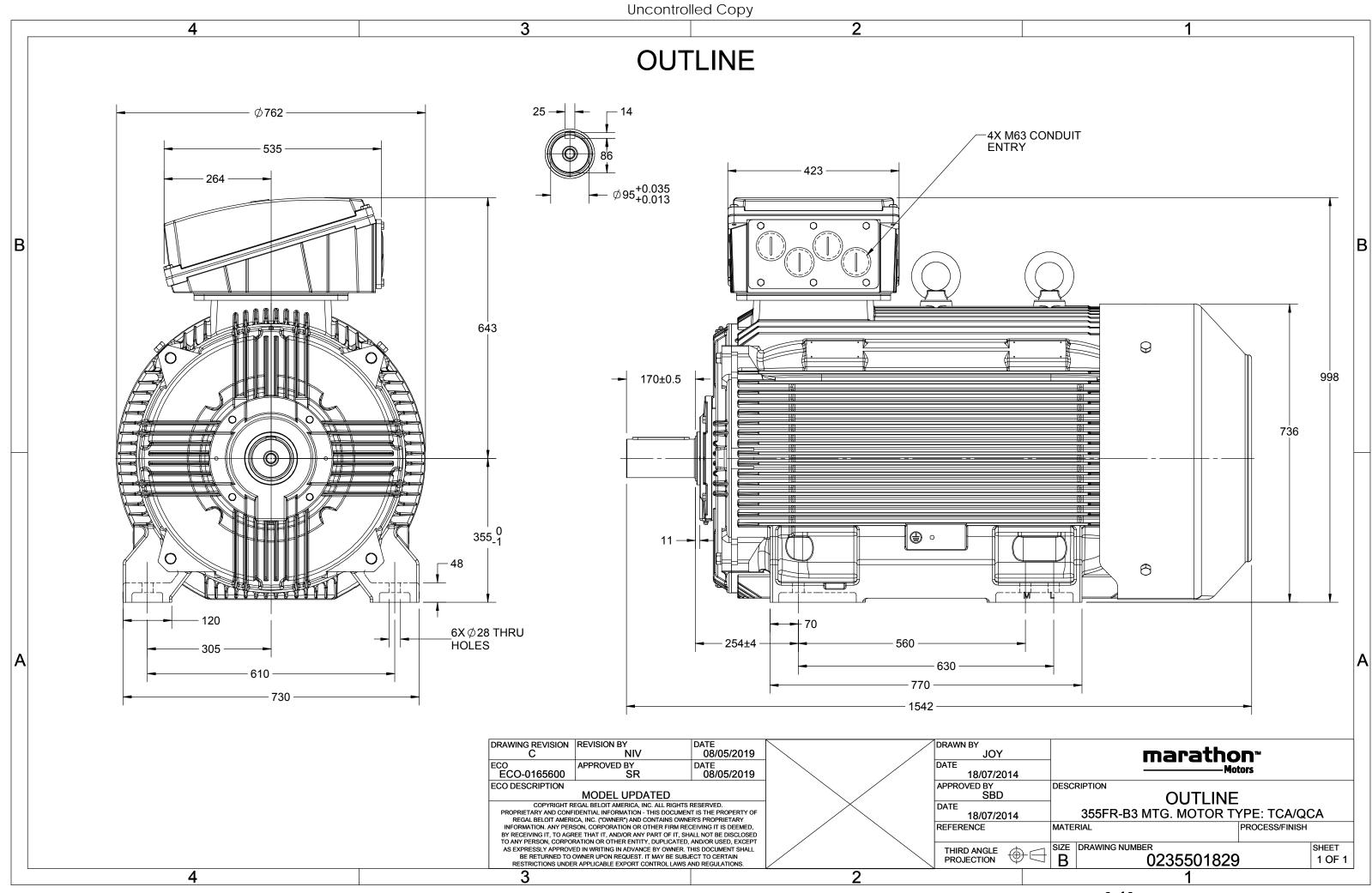
Nameplate Specifications

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
Frame Thermal Protection	355M No Protection	Ambient Temperature	40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6322	Ambient Temperature Opp Drive End Bearing Size	40 °C 6322

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	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	1512 mm	Frame Length	1010 mm
Shaft Diameter	75.000 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Outline Drawing	0235501829	Connection Drawing	8442000085

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U	Δ / Y	f	Р	Р	Ι	n	Т	IE	9	6 EFF a	at 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	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					TCE						protect	ion				IP 55		
	losure TEFC						unting						IM B3					
	Materia	I			Cast Iro					•	ethod					IC 411		
Frame	size								ight - ap					1643		kg		
Duty			S1				Gro	oss wei	ght - ap	prox.				1688		kg		
Voltage	e variati	on *			± 10%	0% Motor				tor ine	ertia					8.9257		kgm ²
Freque	ncy vari	variation * ± 5%				Loa	Load inertia						Customer to Provide					
Combir	ned varia	ation *			10%				Vib	ration	level					2.8		mm/s
Design					Ν				Noi	Noise level (1meter distance from motor)					or)	65		dB(A)
Service	factor				1.0				No.	No. of starts hot/cold/Equally spread						2/3/4		
Insulati	ion class	5			F				Sta	Starting method						DOL		
Ambier	nt temp	erature	2		-15 to +	40		°C	Тур	e of co	oupling					Direct		
Tempe	rature r	ise (by	resistan	ice)	70 [Class	5 B]		К	tE t	ime						10		S
Altitud	e above	sea lev	vel		1000			meter	Dire	ection	of rotati	on			В	i-directional		
Hazard	ous area	a classi	fication		Ex eb				Sta	Standard rotation					Clockwise form DE			
	Zone cla	assifica	tion		Zone	1			Pair	nt shad	de					RAL 7016		
	Gas gro	up			IIC				Acc	essori	es							
	Temper	rature o	class		Т3					Accessory - 1						PTC 150°C		
Rotor t	уре			Alu	ıminum d	ie cast				Accessory - 2						-		
Bearing	g type			Anti-f	riction ba	ll bearin	g			Accessory - 3								
DE / NE	DE beari	ng		632	22 C3/6	322 C3			Ter	Terminal box position					ТОР			
Lubrica	ition me	thod			Regreasa	able			Ma						x 3C x 3	3C x 300mm ² /4 x M63 x 1.5		
Type of	f grease		Sh	ell Gadu	is S5 V10		valent				erminal					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/Υ	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	132	175	246.3	742	171.25	1679.41	IE3	40	S1	1000	8.9257	1643

Motor Load Data

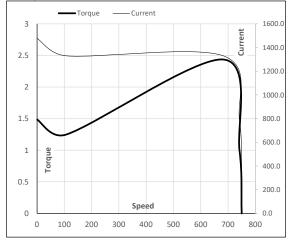
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	85.4	101.7	143.5	188.8	246.3	
Torque	Nm	0.0	564.9	1132.4	1702.9	1679.4	
Speed	r/min	750	748	746	744	742	
Efficiency	%	0.0	91.6	94.5	94.0	94.0	
Power Factor	%	4.6	50.6	69.5	78.9	82.3	

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

Load Point		LR	P-Up	BD	Rated	NL				
Speed	r/min	0	107	683	742	750				
Current	А	1477.9	1330.1	791.0	246.3	85.4				
Torque	pu	1.5	1.2	2.4	1	0				

Starting Characteristics Chart



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

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