PRODUCT INFORMATION PACKET

Model No: TCA2204A1121GAC010 Catalog No: TCA2204A1121GAC010 TerraMAX® Cast Iron Motor, 295 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 355L Frame, TEFC



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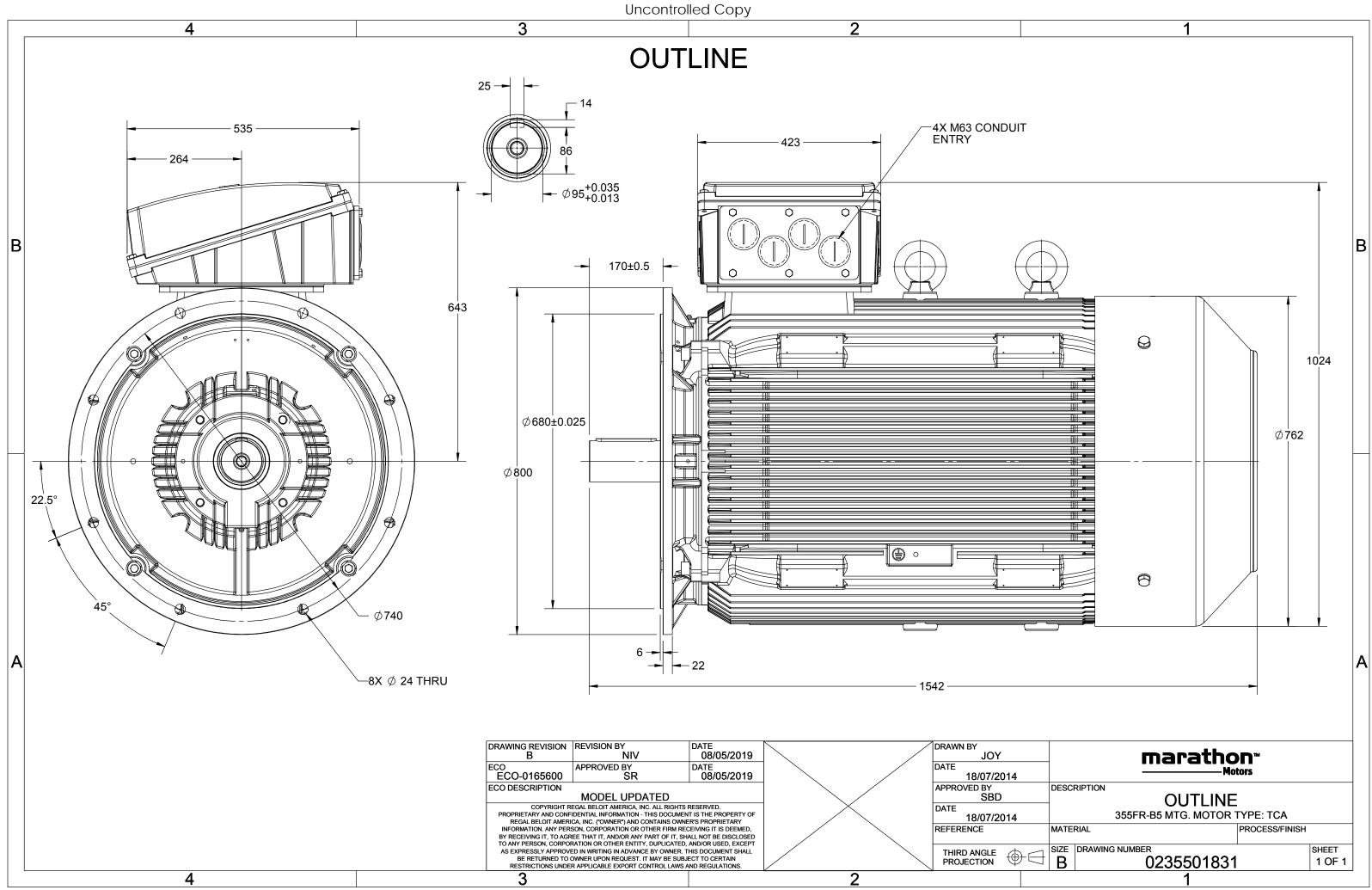
Nameplate Specifications

Output HP	295 Hp	Output KW	220.0 kW 400 V			
Frequency	50 Hz	Voltage				
Current	399.6 A	Speed	742 rpm			
Service Factor	1	Phase	3			
Efficiency	94.6 %	Power Factor	0.84			
Duty	S1	Insulation Class	F			
Frame	355L	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	55			
Efficiency Class	IE3					

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line			
Poles	8	Rotation	Bi-Directional			
Mounting	B5	Motor Orientation	Horizontal			
Drive End Bearing	C3	Opp Drive End Bearing	C3			
Frame Material	Cast Iron	Shaft Type	Keyed			
Overall Length	1542 mm	Frame Length	1010 mm			
Shaft Diameter	95 mm	Shaft Extension	170 mm			
Assembly/Box Mounting	Тор					
Connection Drawing	8442000085	Outline Drawing	0235501831			

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TerraMAX[®]

Model No. TCA2204A1121GAC010

U	Δ / Y	f	Р	Р	Ι	n	т	IE		% EFF at load				at lo	bad	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	220	295	399.6	742	2879.3	IE3	-	94.6	94.6	95.2	0.84	0.81	0.73	6.1	1.6	2.4	
			<u> </u>													ļ			
Motor t	ype				TCA				De	gree of	orotecti	on				IP 55			
Enclosu	re				TEFC				Mc	unting	type					IM B5			
Frame I	Materia	I			Cast Irc	on			Co	oling me	ethod					IC 411			
Frame s	size				355L				Mc	otor wei	ght - ap	orox.				2138		kg	
Duty					S1				Gro	oss weig	ht - app	rox.				2183		kg	
Voltage	variatio	on *			± 10%	D			Mc	tor iner	tia					14.7210		kgm ²	
Frequer	ncy varia	ation *			± 5%				Loa	id inerti	а				Custo	omer to Pro	ovide		
Combin	Combined variation * 10%						Vibration level							2.8					
Design					Ν				No	ise leve	(1met	er dista	nce fror	n motor	-)	65		dB(A)	
Service	factor				1.0				No	. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4			
Insulati	on class				F				Sta	rting m	ethod					DOL			
Ambien	mbient temperature -20 to +40 °(°C	Type of coupling						Direct						
Temper	ature ri	ise (by i	resistanc	e)	80 [Class	5 B]		К	LR	withsta	nd time	(hot/co	ld)			15/30		S	
Altitude	e above	sea lev	el		1000			meter	Dir	ection c	f rotatio	on			В	i-directiona	al		
Hazardo	ous area	a classif	fication		NA				Sta	ndard r	otation				Cloc	ckwise form	DE		
	Zone cla	assifica	tion		NA				Pai	nt shad	e					RAL 5014			
	Gas group NA					Accessories													
	Temper	rature o	class	NA					Accessory - 1					PTC 150°C					
Rotor ty	/pe			Aluminum Die cast						Accessory - 2					-				
Bearing	type			A	Anti-friction ball					Accessory - 3						-			
DE / ND	NDE bearing 6322 C3 / 6322 C3					Terminal box position						ТОР							
Lubricat	prication method Regreasable					Ma	Maximum cable size/conduit size 1R x						R x 3C x 300mm²/4 x M63 x 1.5						
Type of	grease		(CHEVRO	ON SRI-2 o	r Equiva	lent		Au	kiliary te	erminal	box				NA			

 $I_{\text{A}}/I_{\text{N}}$ - Locked Rotor Current / Rated Current

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

 $\rm T_A/\rm T_N$ - Locked Rotor Torque / Rated Torque

NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

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

Technical data are subject to change. There may be discrepancies between calculated and name plate values. Aus/Nz Brazil India Global IEC Efficiency Europe China GB 18613-2012 Grade 2 -IEC: 60034-30 Standards --_