PRODUCT INFORMATION PACKET

Model No: TCA1504A1121GAC010 Catalog No: TCA1504A1121GAC010 TerraMAX® Cast Iron Motor, 200 HP, 3 Ph, 50 Hz, 400 V, 750 RPM, 355M Frame, TEFC



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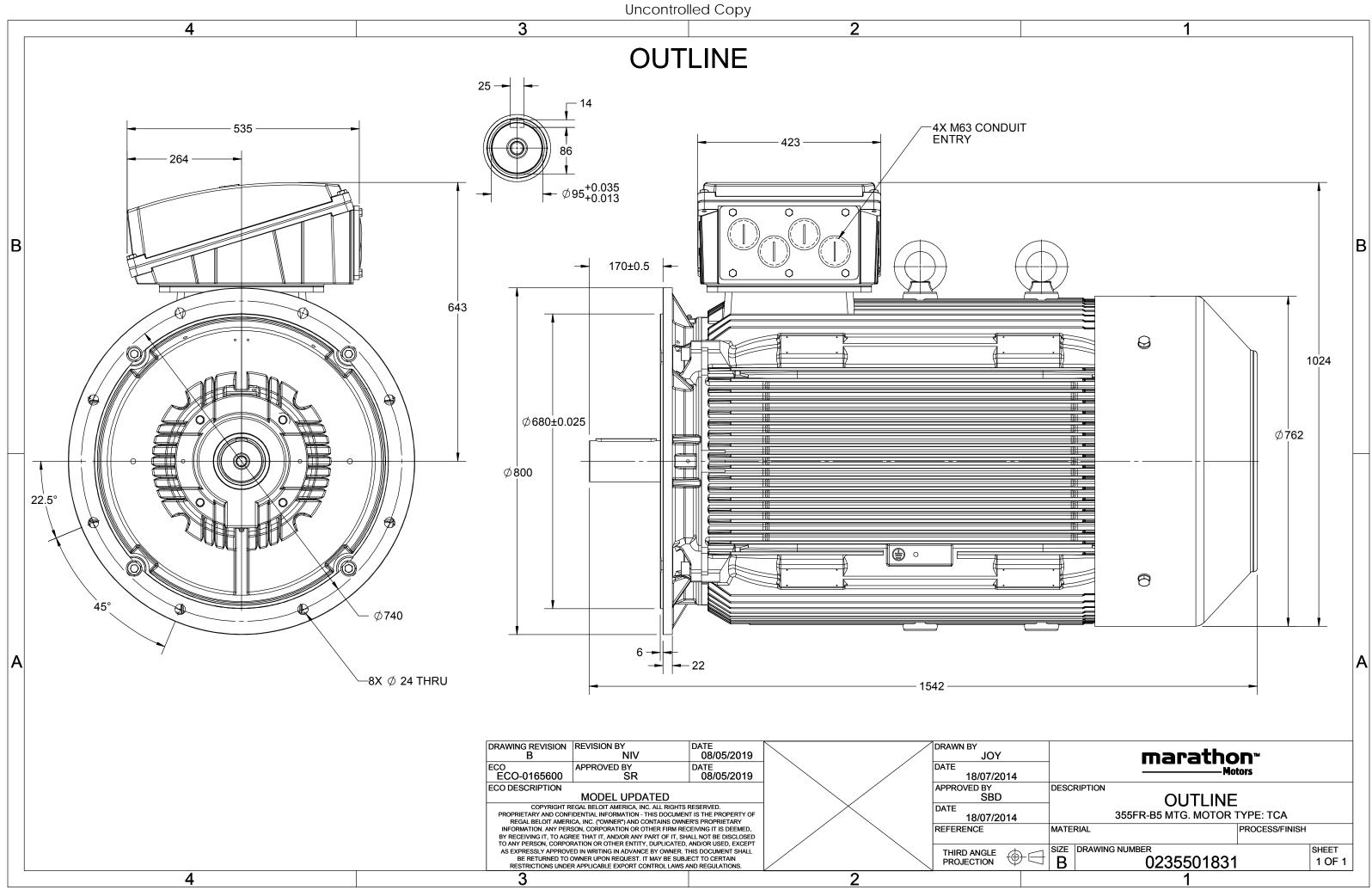
Nameplate Specifications

Output HP	200 Hp	Output KW	150.0 kW
Frequency	50 Hz	Voltage	400 V
Current	280.3 A	Speed	742 rpm
Service Factor	1	Phase	3
Efficiency	94.2 %	Power Factor	0.82
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	Νο
CE	Yes	IP Code	55
Efficiency Class			

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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Model No. TCA1504A1121GAC010

U	Δ / Y	f	Р	Р	Ι	n	Т	IE		% EFF a	t loa	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	150	200	280.3	742	1919.8	IE3	-	94.2	94.2	94.7	0.82	0.79	0.7	6	1.5	2.4	
<u> </u>			<u> </u>						ļ				ļ			Į			
Motor t	type				TCA				Deg	gree of	protecti	on				IP 55			
Enclosu	ire				TEFC				Mc	ounting	type					IM B5			
Frame I	Materia	I			Cast Irc	on			Cod	oling me	ethod					IC 411			
Frame s	size				355N	I			Mo	otor wei	ght - ap	prox.					kg		
Duty					S1				Gro	oss weig	ht - app	rox.			1719 1764				
Voltage	e variatio	on *			± 10%	, b			Mc	tor iner	tia					9.9098		kgm ²	
Freque	ncy varia	ation *			± 5%				Loa	id inerti	а				Cust	Customer to Provide			
Combin	ned varia	ation *			10%				Vib	ration l	evel					2.8		mm/s	
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	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct			
Temper	rature 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	of rotation	on			B	i-direction	ial		
Hazardo	ous area	a classif	ication		NA				Sta	ndard r	otation				Clo	ckwise forr	n DE		
	Zone cla	assifica	tion		NA				Pai	nt shad	е					RAL 5014			
	Gas gro	up			NA				Acc	essorie	s								
	Temper	rature o	lass		NA					Aco	essory	- 1				PTC 150°C	2		
Rotor ty	уре			Alu	uminum d	ie cast				Aco	essory -	- 2				-			
Bearing	g type			A	nti-frictio	n ball				Aco	essory	- 3				-			
DE / NC	DE beari	ng		632	22 C3/6	322 C3			Ter	minal b	ox posit	ion				TOP			
Lubrica	tion me	thod			Regrease	able			Ma	ximum	cable si	ze/conc	luit size	1R	x 3C x 3	00mm²/4	x M63 x 1.5		
Type of	grease		(CHEVRO	DN SRI-2 o	r Equiva	lent		Aux	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 --_



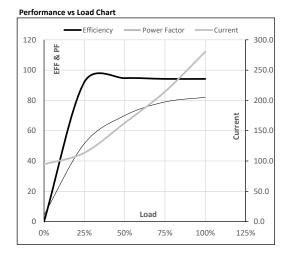


Model No. TCA1504A1121GAC010

Enclosure	U	Δ / Y	f	Р	Р	Ι	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	400	Δ	50	150	200.0	280.3	742	195.76	1919.75	IE3	40	S1	1000	9.9098	1719

Motor Load Data

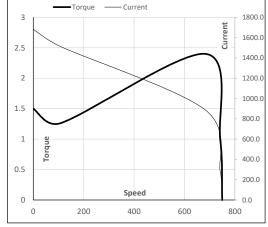
Niotor Load Da	ata						
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	94.6	113.6	162.7	214.4	280.3	
Torque	Nm	0.0	476.2	954.6	1435.7	1919.7	
Speed	r/min	750	748	746	744	742	
Efficiency	%	0.0	92.1	94.7	94.2	94.2	
Power Factor	%	4.4	51.5	70.0	79.0	82.0	



Motor Speed Torque Data

motor opec	a loigue but					
Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	107	683	742	750
Current	А	1681.7	1513.6	887.6	280.3	94.6
Torque	pu	1.5	1.3	2.4	1	0

Starting Characteristics Chart



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

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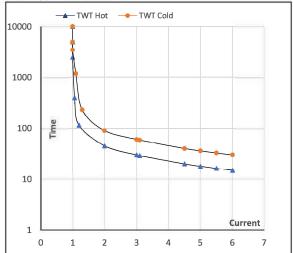
Model No. TCA1504A1121GAC010

Enclosure	U	Δ/Υ	f	Р	Р	1	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	400	Δ	50	150	200.0	280.3	742	195.76	1919.75	IE3	40	S1	1000	9.9098	1719

Motor Speed Torque Data

Load	-	FL	I_1	I_2	l ₃	I_4	1 ₅	LR
TWT Hot	s	10000	45	30	25	18	16	15
TWT Cold	s	10000	90	60	48	36	33	30
Current	pu	1	2	3	4	5	5.5	6

Thermal Characteristics Chart



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

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