PRODUCT INFORMATION PACKET

Model No: TCA2501A1133GAC010 Catalog No: TCA2501A1133GAC010 TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 400 V, 3000 RPM, 355M Frame, TEFC



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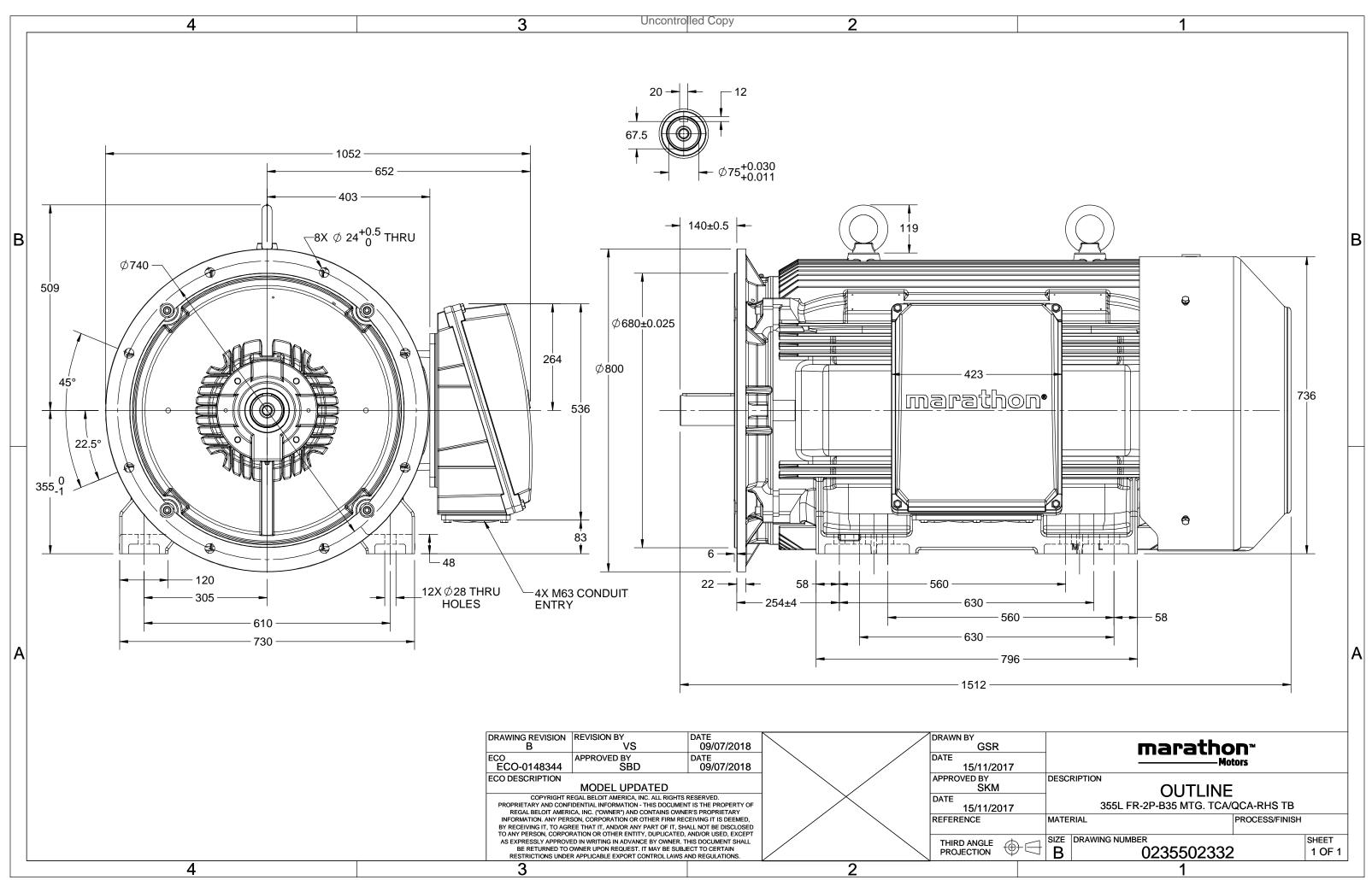
Nameplate Specifications

Output HP	335 Hp	Output KW	250.0 kW
Frequency	50 Hz	Voltage	400 V
Current	418.5 A	Speed	2983 rpm
Service Factor	1	Phase	3
Efficiency	95.8 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	355M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6317	Opp Drive End Bearing Size	6317
UL	No	CSA	No
CE	Yes	IP Code	55
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	СЗ	Opp Drive End Bearing	С3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1512 mm	Frame Length	1010 mm
Shaft Diameter	75 mm	Shaft Extension	140 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0235502332

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TerraMAX[®]

Model No. TCA2501A1133GAC010

U	Δ / Y	f	Р	Р	I	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	250	335	418.5	2983	799.72	IE3	-	95.8	95.8	94.2	0.9	0.87	0.81	6.9	2.0	3.3	
Motor					TCA						protecti	on				IP 55			
Enclosu	ure				TEFC					Nounting type IM B35 opling method IC 411									
Frame	Material	I			Cast Irc				Coo	oling me	ethod								
Frame	size				355M				Mo	tor wei	ght - ap	prox.			1748 1793				
Duty					S1				Gross weight - approx. 1793							kg			
Voltage	e variatio	on *			± 10%				Motor inertia							4.0729		kgm ²	
Freque	ncy varia	ation *			± 5%				Load inertia					Custo	omer to Pro	vide			
Combir	ned varia	ation *			10%				Vib	Vibration level					2.8		mm/s		
Design					Ν				Noi	ise level	(1met	er distar	nce fror	n motor)	90		dB(A)	
Service	factor				1.0				No	. of star	ts hot/c	old/Equ	ally spr	ead		2/3/4			
Insulati	ion class				F				Sta	rting m	ethod					DOL			
Ambier	nt tempe	erature			-20 to +	40		°C	Тур	e of co	upling					Direct			
Temper	rature ri	se (by i	resistance	e)	80 [Class	в]		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			В	i-directional	1		
Hazard	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 gro	up			NA				Acc	essorie	s								
	Temper	ature o	class		NA					Acc	essory	1				PTC 150°C			
Rotor ty	уре			Alı	uminum D	ie cast				Accessory - 2						-			
Bearing	g type			A	nti-frictio	n ball				Acc	cessory -	3				-			
DE / NE	DE bearii	ng		63	17 C3/63	317 C3			Ter	minal b	ox posit	ion				RHS			
Lubrica	tion me	thod			Regreasa	ble			Ma	ximum	cable si	ze/cond	uit size	1R	x 3C x 3	00mm²/4 x	M63 x 1.5		
Type of	f grease		C	CHEVRO	ON SRI-2 o	r Equival	ent		Aux	kiliary te	erminal	box				NA			

 $I_{\rm A}/I_{\rm N}$ - Locked Rotor Current / Rated Current $T_{\rm A}/T_{\rm N}$ - Locked Rotor Torque / Rated Torque

 $T_{\rm K}/T_{\rm N}$ - Breakdown 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.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	GB 18613-2012 Grade 2	-	-	-	IEC: 60034-30

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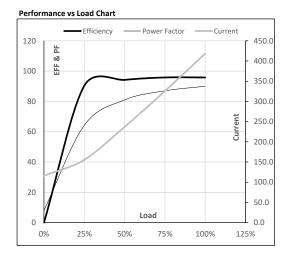


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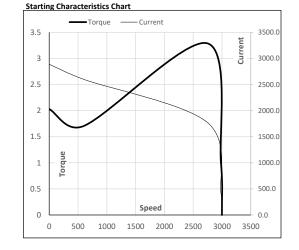
Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	250	335.0	418.5	2983	81.55	799.72	IE3	40	S1	1000	4.0729	1748

Motor Load Data

	NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
А	116.0	155.5	237.0	325.4	418.5	
Nm	0.0	199.1	398.7	598.9	799.7	
r/min	3000	2996	2992	2987	2983	
%	0.0	90.3	94.2	95.8	95.8	
%	8.0	64.2	81.0	87.0	90.0	
	Nm r/min %	A 116.0 Nm 0.0 r/min 3000 % 0.0	A 116.0 155.5 Nm 0.0 199.1 r/min 3000 2996 % 0.0 90.3	A 116.0 155.5 237.0 Nm 0.0 199.1 398.7 r/min 3000 2996 2992 % 0.0 90.3 94.2	A 116.0 155.5 237.0 325.4 Nm 0.0 199.1 398.7 598.9 r/min 3000 2996 2992 2987 % 0.0 90.3 94.2 95.8	A 116.0 155.5 237.0 325.4 418.5 Nm 0.0 199.1 398.7 598.9 799.7 r/min 3000 2996 2992 2987 2983 % 0.0 90.3 94.2 95.8 95.8



Motor Speed	Torque Da	ta					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	600	2744	2983	3000	
Current	А	2887.8	2599.0	1775.4	418.5	116.0	
Torque	pu	2.0	1.7	3.3	1	0	



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

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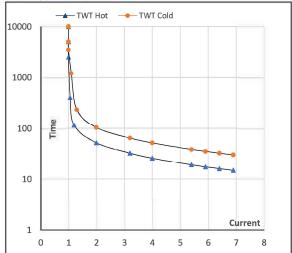
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Enclosure	U	Δ/Υ	f	Р	Р	I	n	т	т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	250	335.0	418.5	2983	81.55	799.72	IE3	40	S1	1000	4.0729	1748

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I ₄	I ₅	LR
TWT Hot	s	10000	52	35	26	23	18	15
TWT Cold	s	10000	104	80	52	40	36	30
Current	pu	1	2	3	4	5	5.5	7

Thermal Characteristics Chart



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

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