## **PRODUCT INFORMATION PACKET**

Model No: TCA2502A1133GAC010 Catalog No: TCA2502A1133GAC010 TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 355M Frame, TEFC



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Product Information Packet: Model No: TCA2502A1133GAC010, Catalog No:TCA2502A1133GAC010 TerraMAX® Cast Iron Motor, 335 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 355M Frame, TEFC

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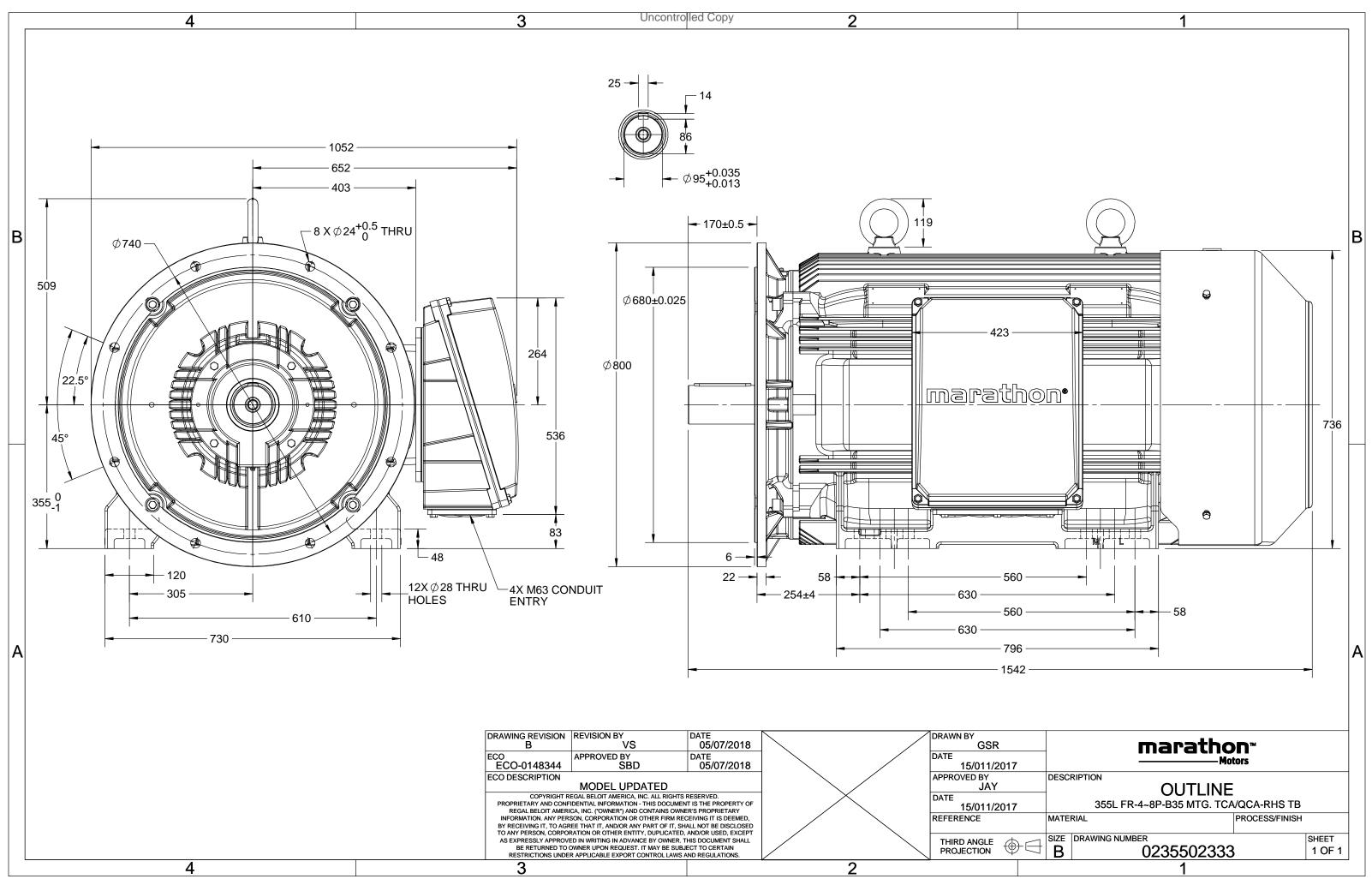
### Nameplate Specifications

Output HP	335 Hp	Output KW	250.0 kW
Frequency	50 Hz	Voltage	400 V
Current	422.3 A	Speed	1490 rpm
Service Factor	1	Phase	3
Efficiency	96 %	Power Factor	0.89
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
Drive End Bearing Size	6322 No	Opp Drive End Bearing Size CSA	6322 No

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	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	1542 mm	Frame Length	1010 mm
Shaft Diameter	95 mm	Shaft Extension	170 mm
Assembly/Box Mounting	R Side		
Connection Drawing	8442000085	Outline Drawing	0235502333

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# **TerraMAX**<sup>®</sup>

### Model No. TCA2502A1133GAC010

U	$\Delta / Y$	f	Р	Р	I	n	Т	IE	9	6 EFF a	t load	ł	PF	at lo	bad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\rm K}/T_{\rm N}$
(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	422.3	1490	1601.3	IE3	-	96	96	95.8	0.89	0.88	0.83	6.5	1.9	2.5
Matar					TCA				Dec	ree of	aratadi					IP 55		
Motor Enclosu	<i>'</i> ''				TEFC				-		protecti	on				IM B35		
		1			Cast Irc					unting						IC 411		
	Materia	I			355M				Cooling method Motor weight - approx.							1776		
	Frame size 355M Duty S1								0 1							kg kg		
,	Voltage variation * ± 10%							0	sht - app	rox.		1821						
U					± 10%	•				tor iner					Curt	8.4434 omer to Prov		kgm <sup>2</sup>
•	ncy varia				± 5% 10%					d inerti	-				Cusio	2.8	lue	,
	ned varia	ation *								ration l					,			mm/s
Design					N						•			n motor	.)	82		dB(A)
Service					1.0						ts hot/c	old/Equ	ally spr	ead		2/3/4		
	ion class				F					ting m						DOL		
	nt tempe				-20 to +			°C		e of co	1 0				Direct			
			resistanc	e)	80 [ Class	Б ]		К		LR withstand time (hot/cold)					15/30			S
	e above				1000			meter			of rotatio	on				i-directional		
	ous area				NA						otation				Cloc	ckwise form [	DE	
	Zone cla		tion		NA					nt shad	-					RAL 5014		
	Gas gro	up			NA				Acc	essorie	s							
	Temper	ature o	class		NA					Acc	cessory -	1				PTC 150°C		
Rotor t	ype				uminum D					Acc	cessory -	2				-		
Bearing	g type				nti-frictio					Acc	cessory -	3				-		
DE / NI	DE beari	ng		63	22 C3/63				Terr	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod			Regrease				Max	kimum	cable si	ze/cond	uit size	1R	x 3C x 3	00mm²/4 x N	И63 x 1.5	
Type of	f grease		(	CHEVRO	ON SRI-2 o	r Equival	ent		Aux	iliary te	erminal	box				NA		

 $I_A/I_N$  - Locked Rotor Current / Rated Current

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

 $\rm T_A/T_N$  - 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.

 Efficiency
 Europe
 China
 India
 Aus/Nz
 Brazil
 Global IEC

 Standards
 GB 18613-2012 Grade 2
 IEC: 60034-30

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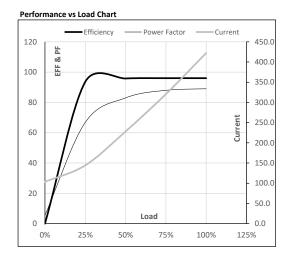


Model No. TCA2502A1133GAC010

Enclosure	U	$\Delta / Y$	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 <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	250	335.0	422.3	1490	163.29	1601.30	IE3	40	S1	1000	8.4434	1776

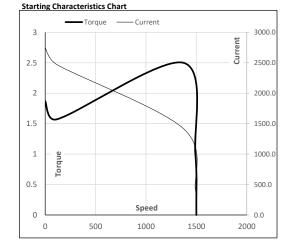
#### Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	Α	103.5	144.3	228.2	320.6	422.3	
Torque	Nm	0.0	398.3	797.8	1198.7	1601.3	
Speed	r/min	1500	1498	1495	1493	1490	
Efficiency	%	0.0	93.6	95.8	96.0	96.0	
Power Factor	%	5.5	66.8	83.0	88.0	89.0	



Motor Speed	Torque	Data

Motor Speed	Torque Da	ta					
Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	115	1371	1490	1500	
Current	А	2745.2	2470.7	1420.8	422.3	103.5	
Torque	pu	1.9	1.6	2.5	1	0	



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

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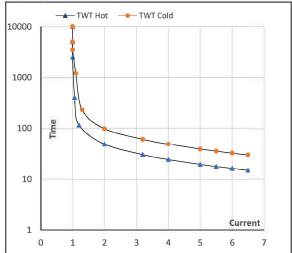
Model No. TCA2502A1133GAC010

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 <sup>2</sup> ]	[kg]
TEFC	400	Δ	50	250	335.0	422.3	1490	163.29	1601.30	IE3	40	S1	1000	8.4434	1776
		_													

### Motor Speed Torque Data

Load	-	FL	$I_1$	l <sub>2</sub>	l <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	49	33	25	20	18	15
TWT Cold	s	10000	98	70	49	39	36	30
Current	pu	1	2	3	4	5	5.5	6.5

Thermal Characteristics Chart



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

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