PRODUCT INFORMATION PACKET

Model No: TCA2003A1133GAC010 Catalog No: TCA2003A1133GAC010 TerraMAX® Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 355M Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



1 of 7



Product Information Packet: Model No: TCA2003A1133GAC010, Catalog No:TCA2003A1133GAC010 TerraMAX® Cast Iron Motor, 270 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 355M Frame, TEFC

marathon®

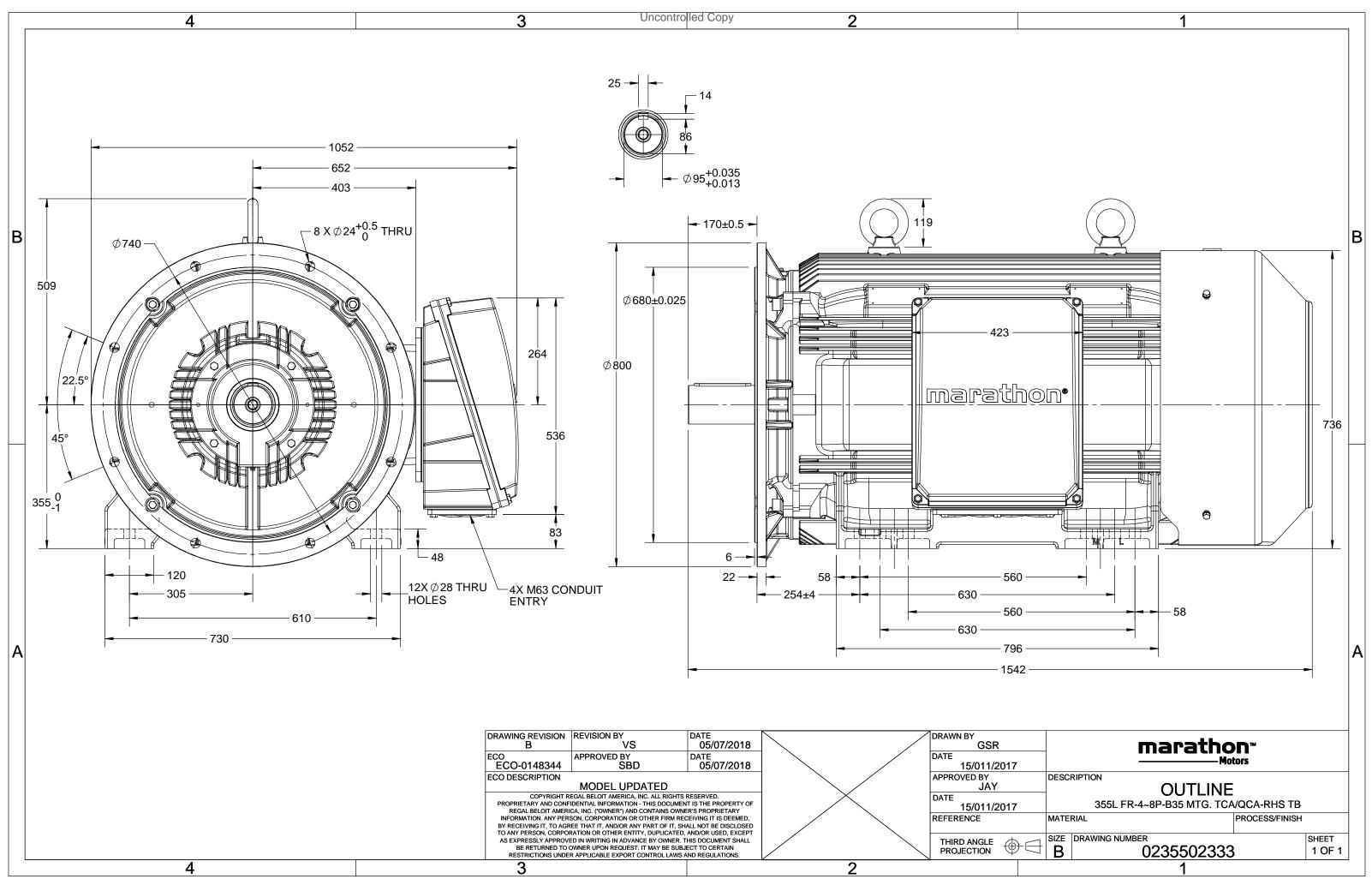
Nameplate Specifications

Output HP	270 Нр	Output KW	200.0 kW
Frequency	50 Hz	Voltage	400 V
Current	354.5 A	Speed	991 rpm
Service Factor	1	Phase	3
Efficiency	95.8 %	Power Factor	0.85
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

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	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		
Outline Drawing	0235502333	Connection Drawing	8442000085

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/01/2022



3 of 7





TerraMAX[®]

Model No. TCA2003A1133GAC010

U	Δ / Y	f	Р	Р	I	n	Т	IE		% EFF at	t load	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	200	270	354.5	991	1941.2	IE3	-	95.8	95.8	95.9	0.85	0.82	0.73	6	1.9	2.5
					TCA													
Motor					TCA					gree of I		on				IP 55		
Enclos					TEFC					ounting						IM B35		
	Materia	I			Cast Irc					oling me						IC 411		
Frame	size				355M					tor wei	5 11					1769		kg
Duty					S1					oss weig		rox.				1814		kg
U	e variatio				± 10%					otor iner						9.9148		kgm ²
	ncy varia				± 5%				Loa	id inerti	а				Custo	omer to Pro	vide	
Combi	ned varia	ation *			10%				Vib	ration l	evel					2.8		mm/s
Design					N				Noi	ise level	(1mete	er distar	nce fror	n motor)	70		dB(A)
Service	factor				1.0				No	of star	ts hot/c	old/Equ	ally spr	ead		2/3/4		
Insulat	ion class				F				Sta	rting me	ethod					DOL		
Ambie	nt tempe	erature			-20 to +	40		°C	Тур	e of cou	upling					Direct		
Tempe	rature ri	ise (by i	resistance	e)	80 [Class	B]		К	LR	withstar	nd time	(hot/co	ld)			15/30		S
Altitud	e above	sea lev	el		1000			meter	Dir	ection o	f rotatio	on			В	i-directiona	l	
Hazard	ous area	a classif	fication		NA				Sta	ndard r	otation				Cloc	kwise form	DE	
	Zone cla	assifica	tion		NA				Pai	nt shade	e					RAL 5014		
	Gas gro	up			NA				Acc	essorie	S							
	Temper	rature o	class		NA					Acc	essory -	1				PTC 150°C		
Rotor t	ype			Alu	uminum D	ie cast				Acc	essory -	2				-		
Bearing	g type			A	nti-frictio	n ball				Acc	essory -	3				-		
DE / NI	DE beari	ng		632	22 C3/63	322 C3			Ter	minal b	ox posit	ion				RHS		
Lubrica	tion me	thod			Regreasa	ble			Ma	ximum	cable siz	e/cond	uit size	1R	x 3C x 3	00mm²/4 x	M63 x 1.5	
Type o	f grease		C	HEVRO	N SRI-2 o	r Equival	ent		Aux	kiliary te	erminal	оох				NA		
iype o	Bicase		U U						Au	te annun y te	di	001						

 $I_{\rm A}/I_{\rm N}$ - 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

REGAL



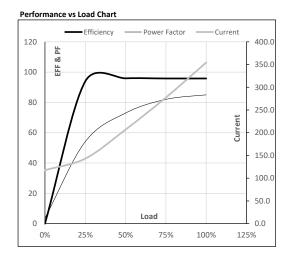


Model No. TCA2003A1133GAC010

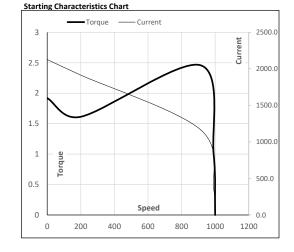
Enclosure	U	Δ / Y	f	Р	Р	1	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	200	270.0	354.5	991	197.95	1941.20	IE3	40	S1	1000	9.9148	1769

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	117.6	143.0	206.9	277.4	354.5	
Torque	Nm	0.0	481.8	965.8	1452.1	1941.2	
Speed	r/min	1000	998	996	993	991	
Efficiency	%	0.0	93.9	95.9	95.8	95.8	
Power Factor	%	3.6	54.1	73.0	82.0	85.0	



Motor Speed Torque Data Load Point LR P-Up BD Rated NL Speed r/min 0 200 912 991 1000 A 2127.0 1914.3 1170.7 354.5 117.6 Current 1.9 1.6 2.5 1 0 Torque pu



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

Issued By Issued Date

REGAL





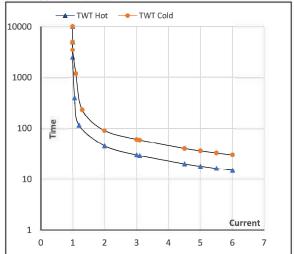
Model No. TCA2003A1133GAC010

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	200	270.0	354.5	991	197.95	1941.20	IE3	40	S1	1000	9.9148	1769

Motor Speed Torque Data

Load		FL	I_1	l ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	45	30	25	18	16	15
TWT Cold	s	10000	90	60	45	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

Issued By Issued Date

REGAL